

European Geosciences Union

General Assembly



Vienna, 15 – 20 April 2007

Basement (Blue Level)	Seating Halls X/Y, Foyer D, Foyer I/K Internet Terminals & LAN (Plug & Play) Hall Y Refreshments Café Vienna – Hall X Snack Bar – Foyer D Water Fountains	Poster Areas Halls X/Y with Coffee Points Splinter Meeting Rooms SM1 & SM2 Press Centre	Lecture Rooms D, 1 (G), 2, 3, 4 (H), 5 (I), 6 (K), 7, 8, 9 (P)
Ground Floor (Yellow Level)	Seating Foyer E Internet Terminals Hall Z (from Tuesday) LAN (Plug & Play) Room next to the Post Office (signposted) Post Office Post Office, Public Telephones and Fax Refreshments Café Ritazza – Entrance Bistro – Foyer E Water Fountains	Splinter Meeting Rooms SM3 & SM4 Rehearsal 2 rooms in Foyer F Information Desks EGU Info Desk, Hotel Reservation, Airport Service, Wining & Dining, EUREST Exhibition Commercial and Research Exhibition Message Boards & Job Posting	Lecture Rooms 10 (E1), 11, 12 (E2), 13 (F1), 14, 15 (F2)
First Floor (Green Level)	Refreshments Coffee Bar – Gallery Self-service restaurant Water Fountains	Poster Area Foyer BG	Lecture Rooms 16 (L), 17 (M), 18, 19, 20 (N), 21 (O), 22, 23, 24, 25, 26, 27
Second Floor (Red Level)	Refreshments Snack Bar – Foyer A Water Fountains	Poster Area Hall A with Coffee Point Splinter Meeting Rooms SM5 & SM6 Exhibition Commercial Exhibition	Lecture Rooms 28 (B), 29, 30 (C), 31, 32, 33, 34
Third Floor (Purple Level)	EGU Council	Meeting Rooms 35, 36, 37	

GENERAL INFORMATION

Location and Conference Address

The General Assembly of the European Geosciences Union (EGU) is held at the Austria Center Vienna (ACV) in Vienna, Austria, from 15 – 20 April 2007. The assembly is open to the scientists of all nations.

Austria Center Vienna
Bruno-Kreisky-Platz 1
1220 Vienna
Austria
Tel: +43-1-260 69-0
Fax: +43-1-260 69-303

The congress centre is located next to the station "Kaisermühlen/Vienna Int. Centre" of the subway U1 running from the city centre (Stephansplatz) to Kagran.

The entire congress centre is fully accessible for wheel-chairs.

Official Language

The official language of the General Assembly is English. Simultaneous interpretation is not provided. It is therefore expected that authors are able to present their research more or less fluently in the English language.

Rules of Conduct

- Smoking is prohibited in the entire congress centre. Outside, on the forecourt of the main entrance are areas designated for smokers.
- It is prohibited to copy any presentation from the desktops in the lecture rooms.
- It is prohibited to take photos of any scientific material at the conference.

Guest Registration

Guests, partners, or accompanying persons are invited to register on-site at the "accompanying person" or "daily ticket" rates at the On-site Registration in Hall Z.

Programme

The scientific programme of the General Assembly includes Union Symposia, Oral & Poster Sessions on disciplinary and interdisciplinary topics covering the full spectrum of the geosciences and the space and planetary sciences, Educational Symposia, EGU Short Courses, Key Note & Award Lectures and Townhall & Splinter Meetings.

The up-to-date programme of each event is posted in front of the respective lecture room or in the respective poster area, respectively.

Services

General Service Points

Entrance Hall – Ground Floor (Yellow Level)

- **EGU Info Desk:** General Contact, Grants, Lost & Found, Printing & Photocopies, Facility Desk for Lecture Rooms
- **Hotel Reservation:** Mondial hotel reservation and travel assistance
- **Airport Service, Wining & Dining, and EUREST Catering**
- **Personal Message and Open Announcement Board**
- **Post Office, Public Telephones & Fax** is open from Monday – Friday, 08:00–18:00
- **Wardrobes** are located behind Hall D – Basement (Blue Level)
- **Accompanying Persons' Meeting Point** in Foyer E – Ground Floor (Yellow Level)

Seating Areas are reserved on the Basement (Blue Level), in the poster area Halls X/Y as well as in Foyer D and Foyer I/K, on the Ground Floor (Yellow Level) in Foyer E, on the First Floor (Green Level) on the Gallery, and on the Second Floor (Red Level) in Foyers A, B and C.

Rehearsal is organized in rooms Rehearsal 1 and Rehearsal 2 on the Ground Floor (Yellow Level).

Internet, WLAN & LAN

- **Internet** terminals are located on the Basement (Blue Level) in Hall Y and on the Ground Floor (Yellow Level) in Hall Z (from Tuesday).
- **WLAN** is available throughout the entire congress centre; power sockets are available in the seating areas in various foyers.
- **LAN Plug & Play** is available in a designated room on the Ground Floor (Yellow Level) next to the post office as well as on the Basement (Blue Level) in Hall Y next to the Internet terminals.

Exhibition, Media & Job Posting

- **Commercial Exhibition:** Entrance Hall – Ground Floor (Yellow Level) and Second Floor (Book Café Foyer A)
- **Research Exhibition:** Entrance Hall – Ground Floor (Yellow Level)
- **Press Centre:** Basement (Blue Level)
- **Job Posting:** Entrance Hall – Ground Floor (Yellow Level)

Refreshments & Lunch

- **Coffee and Lunch Breaks** are scheduled from Monday – Friday, 10:00–10:30 and 15:00–15:30 and 12:00–13:30, respectively.
- **Complimentary Refreshments** are only served during the coffee breaks and exclusively in the poster areas Halls X/Y and A (Coffee Points).
- **Refreshments & Snacks** are offered on a self-payment basis on
 - Basement (Blue Level), Hall X – Café Vienna
 - Basement (Blue Level), Foyer D – Snack Bar
 - Ground Floor (Yellow Level), Entrance – Café Ritz
 - Ground Floor (Yellow Level), Foyer E – Bistro
 - First Floor (Green Level), Gallery – Coffee Bar
 - First Floor (Green Level), Gallery – Self-service restaurant
 - Second Floor (Red Level), Foyer A – Snack Bar
- **Lunch** is served on the First Floor (Green Level), Gallery in the self-service restaurant.
- **Water Fountains** are located on all floors and are marked.

Conference Hours and Special Events

Registration (Hall Z)

Sunday, 15 April 2007, 12:00–20:00
 Monday – Thursday, 16 – 19 April 2007, 08:00–19:00
 Friday, 20 April 2007, 08:00–13:00

Open Reception

Sunday, 15 April 2007, Second Floor (Red Level), Foyers A, B & C, 18:30–20:30

Oral and Poster Sessions

Monday – Friday, 16 – 20 April 2007

In general, the meeting days are cut into five time blocks each with one and a half hour. Concerning the Oral & Poster

Block V, 17:30–19:00, there are two options: within **option 1** an additional extensive public poster viewing is scheduled to enhance the visibility of poster presentations, whereas within **option 2** this time block is reserved for oral and poster presentations like within the time blocks 1–4.

It has been at the discretion of each Division to choose between these two options. All Divisions have chosen option 1, except Energy, Resources and the Environment (ERE), Geodynamics (GD), Geomorphology (GM), Geophysical Instrumentation (GI), Geochemistry, Mineralogy, Petrology & Volcanology (GMPV), Isotopes in Geosciences (IG), Magnetism, Palaeomagnetism, Rock Physics & Geomaterials (MPRG), Natural Hazards (NH), Nonlinear Processes in Geosciences (NP), Planetary & Solar System Sciences (PS), Solar-Terrestrial Sciences (ST), Tectonics and Structural Geology (TS), which will organize their sessions in accordance to option 2.

Posters may be on display daily from 08:00–19:30 (Display Time). After 19:30 posters are removed by the conference staff and stored, day-by-day, with their poster numbers attached in special boxes in the poster area (Taken-Down-Posters). During the poster sessions scheduled in parallel to the oral sessions the authors are kindly asked to stand near their posters for interview and discussion (Author in Attendance).

Oral & Poster Block I	08:30–10:00
Break I	10:00–10:30
Oral & Poster Block II	10:30–12:00
Lunch Break	12:00–13:30
Lunch Block 1 (EBM, SPM, UM only)	12:00–13:30
Lunch Block 2 (DBM only)	12:15–13:15
Oral & Poster Block III	13:30–15:00
Break II	15:00–15:30
Oral & Poster Block IV	15:30–17:00
Break III	17:00–17:30
Poster viewing only	17:30–19:00 (Option 1)
Oral & Poster Block V	17:30–19:00 (Option 2)
Block VI (TM, SPM only)	19:00–20:00

Authors in attendance:

PI:	08:30–10:00
PII:	10:30–12:00
PIII:	13:30–15:00
PIV:	15:30–17:00
PV:	17:00–19:00

President's Dinner

Wednesday, 18 April 2007 (by invitation only)
 Palais Pallavicini, 20:00–23:00
 Bus transportation from the congress centre to the Palais Pallavicini is provided at 19:30 at the main entrance of the congress centre.

Plenary Meeting

Monday, 16 April 2007, Lecture Room D, 12:15–13:15

All EGU members paid-up for 2007 are invited to participate in this event to discuss the reports of the President and the Treasurer of the Union.

Conveners' Reception

Friday, 20 April 2007, Ground Floor (Yellow Level), Foyer E, 19:30–21:00

Council Meetings

Sunday, 15 April 2007, Lecture Room 36, 15:00–18:30

Friday, 20 April 2007, Lecture Room 36, 17:30–19:00

Advisory Board Meeting

Sunday, 15 April 2007, Lecture Room 36, 13:00–15:00

Publication Committee Meeting

Friday, 20 April 2007, Lecture Room 36, 12:00–13:30

Finance Committee Meeting

Friday, 20 April 2007, Lecture Room 37, 12:00–13:30

Outreach Committee Meetings

Sunday, 15 April 2007, Lecture Room 36, 10:00–13:00

Friday, 20 April 2007, Lecture Room 35, 12:00–13:30

Child Care

Please contact the EGU Information Desk.



Medals presented on behalf of the **European Geosciences Union**



Medal	Recipient	Presented (Room, Time)
Fridtjof Nansen Medal	Nadia Pinardi	Lecture Room D, Monday, 16 April, 10:30
Milutin Milankovic Medal	Pinxian Wang	Lecture Room 13 (F1), Monday, 16 April, 13:30
Louis Agassiz Medal	Charles Raymond	Lecture Room 13 (F1), Monday, 16 April, 19:15
Hans Oeschger Medal	Raymond S. Bradley	Lecture Room 13 (F1), Tuesday, 17 April, 10:30
Julius Bartels Medal	Rainer Schwenn	Lecture Room 15 (F2), Tuesday, 17 April, 10:30
John Dalton Medal	Eric F. Wood	Lecture Room 30 (C), Tuesday, 17 April, 18:30
Vilhelm Bjerknes Medal	Markku Kulmala	Lecture Room 28 (B), Tuesday, 17 April, 19:00
Vening Meinesz Medal	Thomas Herring	Lecture Room 15 (F2), Tuesday, 17 April, 19:00
Augustus Love Medal	David Gubbins	Lecture Room 4 (H), Tuesday, 17 April, 19:00
Louis Néel Medal	Friedrich Heller	Lecture Room 5 (I), Tuesday, 17 April, 19:00
Hannes Alfvén Medal	Charles W. Carlson	Lecture Room 15 (F2), Wednesday, 18 April, 08:30
Philippe Duchaufour Medal	Alina Kabata-Pendias	Lecture Room 33, Wednesday, 18 April, 10:30
Sergey Soloviev Medal	Gerhard Berz	Lecture Room 24, Wednesday, 18 April, 10:30
Beno Gutenberg Medal	Brian L.N. Kennett	Lecture Room 4 (H), Wednesday, 18 April, 11:00
Vladimir Ivanovich Vernadsky Medal	Jaap S. Sinninghe Damsté	Lecture Room 25, Wednesday, 18 April, 13:30
Robert Wilhelm Bunsen Medal	Hugh St. C. O'Neill	Lecture Room 21 (O), Wednesday, 18 April, 14:30
David Bates Medal Lecture	Angioletta Coradini	Lecture Room 4 (H), Wednesday, 18 April, 17:45
Alfred Wegener Medal	Claude F. Boutron	Lecture Room D, Wednesday, 18 April, 17:55
Stephan Mueller Medal	David G. Gee	Lecture Room 5 (I), Wednesday, 18 April, 18:00
Arthur Holmes Medal	Claude Jaupart	Lecture Room D, Wednesday, 18 April, 18:30
Plinius Medal	Andrey Kurkin	Lecture Room 24, Thursday, 19 April, 13:30
Henry Darcy Medal	Lars Gottschalk	Lecture Room 30 (C), Thursday, 19 April, 18:30
Petrus Peregrinus Medal	Andy Jackson	Lecture Room 5 (I), Thursday, 19 April, 19:00
Jean Baptiste Lamarck Medal	Alessandro Montanari	Lecture Room 2, Thursday, 19 April, 19:00
Lewis Fry Richardson Medal	Ulrich Schumann	Lecture Room 4 (H), Thursday, 19 April, 19:45

Key Note & Medal Lectures

Monday, 16 April 2007

Fridtjof Nansen Medal Lecture

Pinardi, N.

The Mediterranean Sea ocean variability and operational oceanography: a science based approach for sustainable development of marine and coastal areas (Fridtjof Nansen Medal Lecture) (solicited)

Lecture Room D, 10:30–11:15

Milutin Milankovic Medal Lecture

Wang, P.X.

Feeling the Earth's pulse from global monsoon records (Milutin Milankovic Medal Lecture) (solicited)

Lecture Room 13 (F1), 13:30–14:00

Louis Agassiz Medal Lecture

Raymond, C. F.

Spreading fast motion and the pace of change in ice sheets (Louis Agassiz Medal Lecture) (solicited)

Lecture Room 13 (F1), 19:15–20:00

Tuesday, 17 April 2007

Hans Oeschger Medal Lecture

Bradley, R.S.

Reconstructions of climate over recent millennia: problems and prospects (Hans Oeschger Medal Lecture) (solicited)

Lecture Room 13 (F1), 10:30–11:15

Julius Bartels Medal Lecture

Schwenn, R.

Space storms are roaring through the solar system: why do we earthlings care? (Julius Bartels Medal Lecture) (solicited)

Lecture Room 15 (F2), 10:30–11:00

John Dalton Medal Lecture

Wood, E. F.

The next frontier for hydrology: using satellite remote sensing to understand the global water cycle (John Dalton Medal Lecture) (solicited)

Lecture Room 30 (C), 18:30–19:30

Vilhelm Bjerknes Medal Lecture

Kulmala, M.

Atmospheric Nucleation and its relationships to Biosphere - Atmosphere Interactions (Vilhelm Bjerknes Medal Lecture) (solicited)

Lecture Room 28 (B), 19:00–20:00

Vening Meinesz Medal Lecture

Herring, T.

Geodesy with temporal scales from seconds to decades and on spatial scales of meters to global (Vening Meinesz Medal Lecture) (solicited)

Lecture Room 15 (F2), 19:00–20:00

Augustus Love Medal Lecture

Gubbins, D.; Sreenivasan, B.; Willis, A.P.

Locking the Geodynamo to the Mantle and Implications for Core Dynamics (solicited)

Lecture Room 4 (H), 19:00–20:00

Louis Néel Medal Lecture

Heller, F.

Aeolian Dust - Gift from the Gods or Curse from Hell? (Louis Néel Medal Lecture) (solicited)

Lecture Room 5 (I), 19:00–20:00

Wednesday, 18 April 2007

Hannes Alfvén Medal Lecture

Carlson, C. W.

Properties of the aurora as seen from FAST (Hannes Alfvén Medal Lecture) (solicited)

Lecture Room 15 (F2), 08:30–09:15

Sergey Soloviev Medal Lecture

Berz, G.

Natural Disasters and Climate Change: Causes, Costs and Counter-Measures (Sergey Soloviev Medal Lecture) (solicited)

Lecture Room 24, 10:30–11:00

Beno Gutenberg Medal Lecture

Kennett, B.L.N.

Understanding Subduction Zone Structure (Beno Gutenberg Medal Lecture) (solicited)

Lecture Room 4 (H), 11:00–11:45

Philippe Duchaufour Medal Lecture

Kabata-Pendias, A.

Trace Elements from Soil to Humans (Philippe Duchaufour Medal Lecture) (solicited)

Lecture Room 33, 10:30–11:00

Vladimir Ivanovich Vernadsky Medal Lecture

Sinninghe Damsté, J.S.

Organic proxies for reconstruction of microbial evolution, past climatic and palaeoenvironmental conditions (Vladimir Ivanovich Vernadsky Medal Lecture) (solicited)

Lecture Room 25, 13:30–14:00

Robert Wilhelm Bunsen Medal Lecture

O'Neill, H.

What can the variations in chemical composition among the Earth and other terrestrial planetary bodies tell us about how terrestrial planets form? (Robert Wilhelm Bunsen Medal Lecture) (solicited)

Lecture Room 21 (O), 14:30–15:00

*Outstanding Young Scientist Lecture 1***Stoll, H.M.**; Shimizu, N.; Archer, D.; Ziveri, P.

Using coccolith chemistry to track coccolithophore productivity response to the PETM (Outstanding Young Scientist Lecture) (solicited)

Lecture Room 25, 15:30–16:00

*Outstanding Young Scientist Lecture 2***Sluijs, A.**

Early Paleogene transient global warming events, carbon cycle dynamics, biomarkers, and dinoflagellates – a potent mix (Outstanding Young Scientist Lecture) (solicited)

Lecture Room 25, 16:00–16:30

*Arthur Holmes Medal Lecture***Jaupart, C.**

Dynamics of continental lithosphere (Arthur Holmes Medal Lecture) (solicited)

Lecture Room D, 18:30–19:00

*Alfred Wegener Medal Lecture***Boutron, C.F.**

Anthropogenic heavy metals in polar and alpine snow and ice: from the antiquity to present (Alfred Wegener Medal Lecture) (solicited)

Lecture Room D, 17:55–18:25

*David Bates Medal Lecture***Coradini, A.**; Magni, G.

The Formation of Jupiter and Saturn (David Bates Medal Lecture) (solicited)

Lecture Room 4 (H), 17:45–18:15

*Stephan Mueller Medal Lecture***Gee, D.G.**

From the Orogens of Europe to the Origin of the Arctic (Stephan Mueller Medal Lecture) (solicited)

Lecture Room 5 (I), 18:00–18:45

*C.F. Gauss Lecture of the Deutsche Geophysikalische Gesellschaft (DGG)***Igel, H.**

Rupture, Waves, and Imaging: The Role of High-Performance Computing (solicited)

Lecture Room 10 (E1), 19:00–20:00

Thursday, 19 April 2007*Plinius Medal Lecture***Kurkin, A.**

Edge waves above a cylindrical shelf: focusing, instabilities and interactions (Plinius Medal Lecture) (solicited)

Lecture Room 24, 13:30–14:00

*Henry Darcy Medal Lecture***Gottschalk, L.**

What's in a map? - Perspectives on the PUB problem (Henry Darcy Medal Lecture) (solicited)

Lecture Room 30 (C), 18:30–19:30

*Petrus Peregrinus Medal Lecture***Jackson, A.**

Understanding the Earth's magnetic field through observation and theory (Petrus Peregrinus Medal Lecture) (solicited)

Lecture Room 5 (I), 19:00–20:00

*Lewis Frey Richardson Medal Lecture***Schumann, U.**

From little whorls to the global atmosphere (Lewis Fry Richardson Medal Lecture) (solicited)

Lecture Room 4 (H), 19:45–20:30

*Jean Baptiste Lamarck Medal Lecture***Montanari, A.**; Bice, D.; Druschel, G.; Mariani, S.; Marshall, C.; Olcott, A.; Sharp, W.; Tighe, T.; Vucetic, M.

Rediscovering pelagosite: a Mediterranean "microstromatolite" recording recent climate cycles (Jean Baptiste Lamarck Medal Lecture) (solicited)

Lecture Room 2, 19:00–20:00

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Townhall Meetings

Monday, 16 April 2007

TM05 US5 "get-together" reception: European Cooperation in a global context: Make it happen!

Contact: Avril, B., bavril@esf.org

Lecture Room 4 (H), 19:00–20:00

Tuesday, 17 April 2007

TM01 An European View of Desertification. Deser-Net. European Network for Research Desertification

Contact: Cerda, A., artemio.cerda@uv.es

Lecture Room 1 (G), 19:00–20:00

TM03 Scientific drilling: news from IODP and ICDP

Contact: Mevel, C., mevel@ipgp.jussieu.fr

Lecture Room 13 (F1), 19:00–20:00

TM02 National Data Centers - how they can impact the country's economy and how to manage a NDC

Contact: Bulow, K., kbulow@slb.com

Lecture Room 6 (K), 19:00–20:00

Wednesday, 18 April 2007

TM04 International Heliophysical Year 2007-2008

Contact: Briand, C., carine.briand@obspm.fr

Lecture Room 8, 19:00–20:00

Thursday, 19 April 2007

TM06 Geoinformatics Town Hall at 2007 EGU Meeting (Envisioning the Future of Earth Science Data and Knowledge Access Through a Broad International Geoinformatics Collaboration)

Contact: Fox, P., pfox@ucar.edu

Lecture Room 29, 12:00–13:30

Division Business Meetings

Tuesday, 17 April 2007

DBM04 Division Business Meeting for Cryospheric Sciences

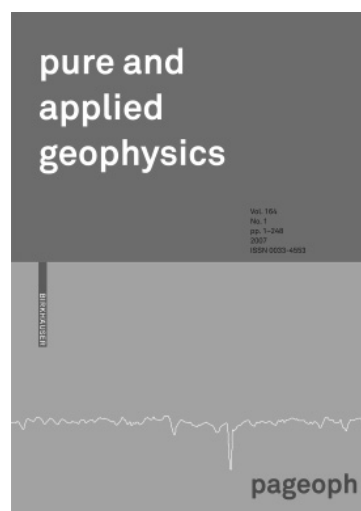
Lecture Room 4 (H), 12:15–13:15

DBM08 Division Business Meeting for Geodynamics (GD)

Lecture Room 6 (K), 12:15–13:15

DBM09 Division Business Meeting for Geomorphology (GM), Lecture Room 17 (M), 12:15–13:15

DBM15 Division Business Meeting for Ocean Sciences (OS), Lecture Room D, 12:15–13:15



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Wednesday, 18 April 2007

DBM01 Division Business Meeting for Atmospheric Sciences (AS)
Lecture Room 10 (E1), 12:15–13:15

DBM03 Division Business Meeting for Climate: Past, Present & Future (CL)
Lecture Room 13 (F1), 12:15–13:15

DBM07 Division Business Meeting for Geodesy (G)
Lecture Room 1 (G), 12:15–13:15

DBM11 Division Business Meeting for Hydrological Sciences (HS)
Lecture Room 28 (B), 12:15–13:15

DBM14 Division Business Meeting for Nonlinear Processes in Geosciences (NP)
Lecture Room 8, 12:15–13:15

DBM16 Division Business Meeting for Planetary and Solar System Sciences (PS)
Lecture Room 11, 12:15–13:15

DBM17 Division Business Meeting for Seismology (SM)
Lecture Room 4 (H), 12:15–13:15

DBM20 Division Business Meeting for Stratigraphy, Sedimentology and Palaeontology (SSP)
Lecture Room 6 (K), 12:15–13:15

DBM21 Division Meeting for Tectonics and Structural Geology (TS)
Lecture Room 5 (I), 12:15–13:15

DBM05 Division Business Meeting for Energy, Resources and the Environment (ERE)
Lecture Room 2, 12:15–13:15

Thursday, 19 April 2007

DBM02 Division Business Meeting for Biogeosciences (BG)
Lecture Room 19, 12:15–13:15

DBM06 Division Business Meeting for Geochemistry, Mineralogy, Petrology & Volcanology (GMPV)
Lecture Room 1 (G), 12:15–13:15

DBM10 Division Business Meeting for Geophysical Instrumentation (GI)
Lecture Room 2, 12:15–13:15

DBM12 Division Business Meeting for Magnetism, Palaeomagnetism, Rock Physics & Geomaterials (MPRG)
Lecture Room 34, 12:15–13:15

DBM13 Division Business Meeting for Natural Hazards (NH)
Lecture Room 18, 12:15–13:15

DBM18 Division Business Meeting for Soil System Sciences (SSS)
Lecture Room 33, 12:15–13:15

DBM19 Division Business Meeting for Solar-Terrestrial Sciences (ST)
Lecture Room 11, 12:15–13:15

Editorial Board Meetings**Tuesday, 17 April 2007**

EBM01 Editorial Board Meeting of Atmospheric Chemistry and Physics
Lecture Room 36, 12:00–13:30

EBM02 Editorial Board Meeting of Annales Geophysicae
Lecture Room 37, 12:00–13:30

EBM07 Editorial Board Meeting of Nonlinear Processes in Geophysics
Lecture Room 35, 12:00–13:30

Wednesday, 18 April 2007

EBM03 Editorial Board Meeting of Biogeosciences
Lecture Room 37, 12:00–13:30

EBM06 Editorial Board Meeting of Natural Hazards and Earth System Sciences
Lecture Room 35, 12:00–13:30

EBM08 Editorial Board Meeting of Ocean Science
Lecture Room 36, 12:00–13:30

Thursday, 19 April 2007

EBM04 Editorial Board Meeting of Climate of the Past
Lecture Room 37, 12:00–13:30

EBM05 Editorial Board Meeting of Hydrology and Earth System Sciences
Lecture Room 36, 12:00–13:30

EBM09 Editorial Board Meeting of eEarth
Lecture Room 35, 12:00–13:30

LIGHT DETECTING AND RANGING

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Splinter Meetings

Monday, 16 April 2007

- **SM1 (40)** Splinter Meeting Room 1 (Blue Level)

19:00–20:00

SPM41 EGU NP executive

Contact: Schertzer, D., Daniel.Schertzer@enpc.fr

- **SM3 (18)** Splinter Meeting Room 3 (Yellow Level)

12:00–13:30

SPM35 TC Catchment Hydrology

Contact: Blöschl, G., bloeschl@hydro.tuwien.ac.at

17:30–20:00

SPM27 Cosmic Vision Solar Probe

Contact: Maksimovic, M., milan.maksimovic@obspm.fr

- **SM4 (12)** Splinter Meeting Room 4 (Yellow Level)

10:30–12:00

SPM28 GEOSS Interoperability Procedure Pilot Project

Contact: Nativi, S., nativi@imaa.cnr.it

12:00–13:30

SPM36 TC Catchment Hydrology

Contact: Montanari, A., alberto.montanari@unibo.it

15:30–17:00

SPM31 E2C2 PTB Meeting

Contact: Malamud, B., bruce.malamud@kcl.ac.uk

17:30–20:00

SPM11 Executive Committee Meeting of the European Mineralogical Union

Contact: Effenberger, H.,

herta.silvia.effenberger@univie.ac.at

- **SM6 (40)** Splinter Meeting Room 6 (Red Level)

12:00–13:30

SPM30 CDRD Meeting

Contact: Mugnai, A., a.mugnai@isac.cnr.it

15:30–19:00

SPM16 FLASH Project

Contact: Price, C., cprice@flash.tau.ac.il

Tuesday, 17 April 2007

- **SM1 (40)** Splinter Meeting Room 1 (Blue Level)

12:00–15:00

SPM32 Ninth GGOS Steering Committee

Contact: Plag, H., hpplag@unr.edu

17:30–20:00

SPM03 IPY Plates & Gates

Contact: Gohl, K., karsten.gohl@awi.de

- **SM2 (40)** Splinter Meeting Room 2 (Blue Level)

12:00–13:30

SPM44 RiftLink Research Group

Contact: Rumpker, G.,

rumpker@geophysik.uni-frankfurt.de

17:30–19:00

SPM17 CNR IRPI meeting at EGU

Contact: Guzzetti, F., fausto.guzzetti@irpi.cnr.it

- **SM3 (18)** Splinter Meeting Room 3 (Yellow Level)

12:00–13:30

SPM38 TC Meeting Hydrology

Contact: Montanari, A., alberto.montanari@unibo.it

13:30–15:00

SPM48 GJI Board Meeting

Contact: Bennett, L.,

lindsay.bennett@oxon.blackwellpublishing.com

15:30–17:00

SPM23 TEMPORE Project

Contact: Rossi, P., ccgm@club-internet.fr

17:30–19:00

SPM06 HEWG meeting

Contact: Milillo, A., anna.milillo@ifsi-roma.inaf.it

19:00–20:00

SPM26 EGELADOS Meeting

Contact: Friederich, W., wolle@geophysik.rub.de

- **SM4 (12)** Splinter Meeting Room 4 (Yellow Level)

12:00–13:30

SPM37 TC Meeting Hydrology

Contact: Montanari, A., alberto.montanari@unibo.it

17:30–19:00

SPM07 Output standards for simulations of regional climate

Contact: Gutowski, W., gutowski@iastate.edu

- **SM5 (40)** Splinter Meeting Room 5 (Red Level)

08:30–12:00

SPM25 Heavy-metal contamination of water, air, soil, and foodcrops

Contact: Malamud, B., bruce.malamud@kcl.ac.uk

12:00–13:30

SPM45 Cross-Scale Meeting

Contact: Schwartz, S., s.schwartz@imperial.ac.uk

15:30–17:00

SPM34 Strategies to community building in hydrology
Contact: Blöschl, G., bloeschl@hydro.tuwien.ac.at

17:30–19:00

SPM04 GSL Editors Reception
Contact: Hills, A., angharad.hills@geolsoc.org.uk

• **SM6 (40)** Splinter Meeting Room 6 (Red Level)

12:00–15:00

SPM46 E-CANES and ASIM/TARANIS
Contact: HANUISE, C., christian.hanuse@cns-orleans.fr

17:30–20:00

SPM22 WDMAM 1.0 of IAGA and CGMW
Contact: Korhonen, J., juha.korhonen@gtk.fi

Wednesday, 18 April 2007

• **SM1 (40)** Splinter Meeting Room 1 (Blue Level)

12:00–15:00

SPM12 Council Meeting of the European Mineralogical Union
Contact: Effenberger, H.,
herta.silvia.effenberger@univie.ac.at

15:30–19:00

SPM10 MedCLIVAR round table
Contact: Lionello, P., piero.lionello@unile.it

19:00–20:00

SPM40 Nonlinear Geosciences on EU agenda
Contact: Schertzer, D., Daniel.Schertzer@enpc.fr

• **SM2 (40)** Splinter Meeting Room 2 (Blue Level)

12:00–15:00

SPM13 European seismological reference model
Contact: Morelli, A., morelli@bo.ingv.it

• **SM3 (18)** Splinter Meeting Room 3 (Yellow Level)

08:30–10:00

SPM50 Blackwell Publishing Editorial Board Meeting
Contact: Bennett, L.,
lindsay.bennett@oxon.blackwellpublishing.com

10:30–13:30

SPM09 MedCLIVAR-SSG
Contact: Lionello, P., piero.lionello@unile.it

13:30–15:00

SPM51 Blackwell Publishing Editorial Board Meeting
Contact: Bennett, L.,
lindsay.bennett@oxon.blackwellpublishing.com

17:30–20:00

SPM02 Analogue-Numerical Benchmark Meeting
Contact: Buiter, S., susanne.buiter@ngu.no

• **SM4 (12)** Splinter Meeting Room 4 (Yellow Level)

12:00–19:00

SPM01 EPICA-MIS WP3 meeting
Contact: Waelbroeck, C., claire.waelbroeck@lsce.cnrs-gif.fr

17:30–19:00

SPM42 Meeting of the Geoscientific Abaqus User Group (GEOQUS)
Contact: Fischer, K., kasper.fischer@ruhr-uni-bochum.de

• **SM5 (40)** Splinter Meeting Room 5 (Red Level)

10:30–15:00

SPM33 Titan-Saturn ESA CV proposals
Contact: Coustenis, A., Athena.Coustenis@obspm.fr

17:30–20:00

SPM47 ExoMars PanCam team
Contact: Coates, A., ajc@mssl.ucl.ac.uk

• **SM6 (40)** Splinter Meeting Room 6 (Red Level)

12:00–19:00

SPM24 Issues in Precipitation Science
Contact: Smith, E., eric.a.smith@nasa.gov

13:30–17:00

SPM14 ISMIP meeting
Contact: Huybrechts, P., phuybrec@vub.ac.be

19:00–20:30

SPM15 9th Plinius Conference on Mediterranean Storms - Scientific Committee Meeting

Thursday, 19 April 2007

• **SM1 (40)** Splinter Meeting Room 1 (Blue Level)

17:30–19:00

SPM05 International Earth Science Education
Contact: Uherek, E., euherek@espere.net

• **SM2 (40)** Splinter Meeting Room 2 (Blue Level)

12:00–13:30

SPM44 RiftLink Research Group
Contact: Rumpker, G.,
rumpker@geophysik.uni-frankfurt.de

15:30–19:00

SPM19 COST 731 - WG2
Contact: Skaugen, T., thS@nve.no

- **SM3 (18)** Splinter Meeting Room 3 (Yellow Level)

10:30–12:00

SPM43 Meeting on coastal hazard issues

Contact: Violante, C., crescenzo.violante@iamc.cnr.it

15:30–19:00

SPM18 COST 731 - WG1

Contact: Keil, C., christian.keil@dlr.de

- **SM4 (12)** Splinter Meeting Room 4 (Yellow Level)

12:00–13:30

SPM52 ORFEUS Mobile Networks Working Group

Contact: Brisbourne, A., AMB27@LE.AC.UK

15:30–19:00

SPM20 COST 731 - WG3

Contact: Bruen, M., michael.bruen@ucd.ie

- **SM5 (40)** Splinter Meeting Room 5 (Red Level)

17:30–19:00

SPM49 Deep Aline Valleys

Contact: Decker, K., kurt.decker@univie.ac.at

- **SM6 (40)** Splinter Meeting Room 6 (Red Level)

12:00–13:30

SPM53 TOPO-EUROPE - 4-D Topography Evolution in Europe: Uplift, Subsidence and Sea Level Change

Contact: Bogaard, P., paul.bogaard@falw.vu.nl

15:30–17:00

SPM33 Titan-Saturn ESA CV proposals

Contact: Coustenis, A., Athena.Coustenis@obspm.fr

17:30–19:00

SPM29 3rd Meeting of European National Committees of Geology

Contact: Charvet, J., jacques.charvet@univ-orleans.fr

Friday, 20 April 2007

- **SM5 (40)** Splinter Meeting Room 5 (Red Level)

08:30–12:00

SPM21 COST 731 - MCM

Contact: Rossa, A., arossa@arpa.veneto.it

- **SM6 (40)** Splinter Meeting Room 6 (Red Level)

08:30–10:00

SPM39 ESSC Ad Hoc Group on Exploration

Contact: Worms, J., jcworms@esf.org

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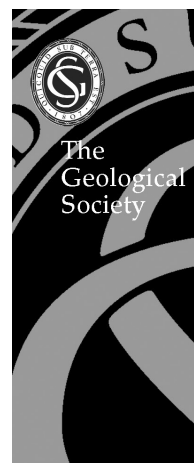
Tuesday, 17 April 2007

Lecture Room 13 (F1)

17:30–19:00

F01 Forum on the Strategy for the Global Geodetic Observing System: Meeting the Requirements of a Global Society on a Changing Planet in 2020 (GGOS2020)

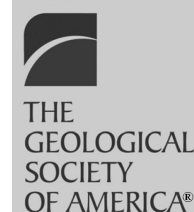
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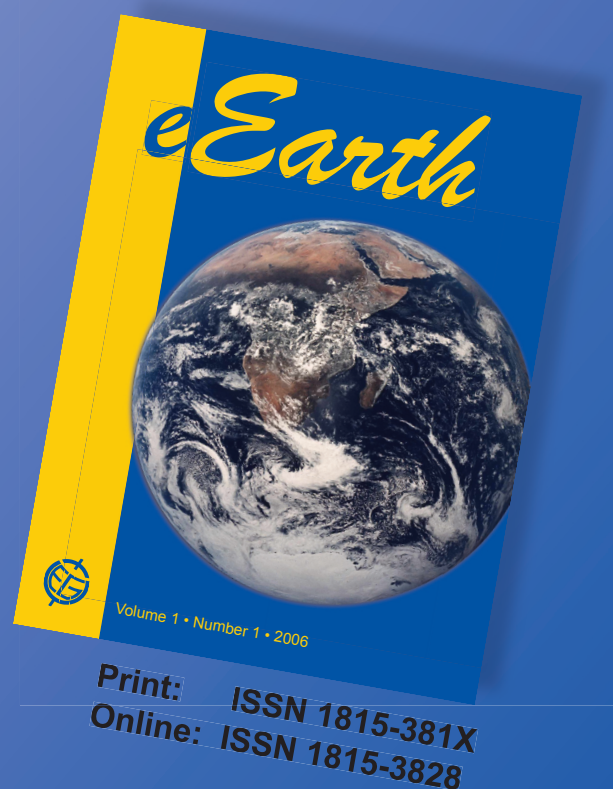
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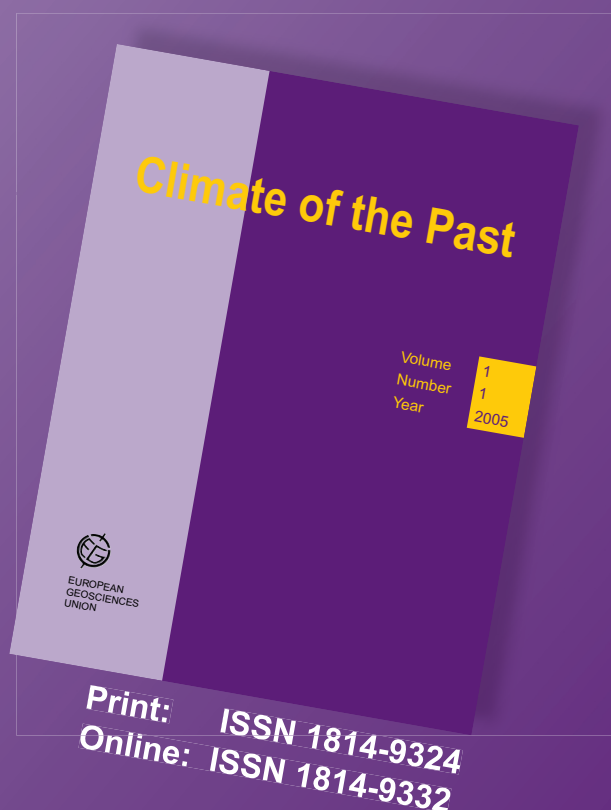
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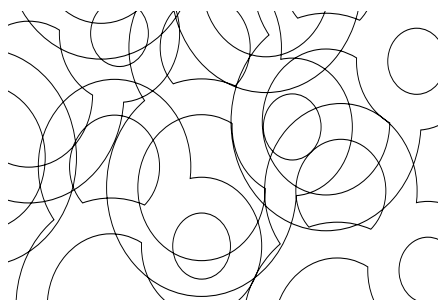
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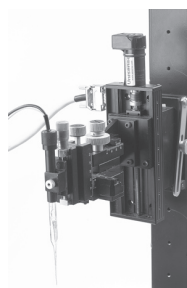
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- sediment corers**
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- working platforms**
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- plankton nets**
- airlift samplers**
- hess samplers**
- freezecorers**
- tripods**
- winches**
- multicorers**
- and more...**

CONSTRUCTION - PRODUCTION - RENT - SELL

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The following (and many others) customers use our equipment:

Alfred Wegener Institute for Polar and Marine Research	Projects in Greenland, Antarctica and Siberia
British Antarctic Survey	Piston corer
EAWAG	Switzerland Tripod and winches
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Geo Forschungs Zentrum Potsdam	Freeze corer for soft sediments, Piston corer
Institute of Geography Nanjing China	Platform and Piston corer
Intergeo	Engineering office for soil renewal areas
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OEAW Institute of Limnology Mondsee	Piston corer and others
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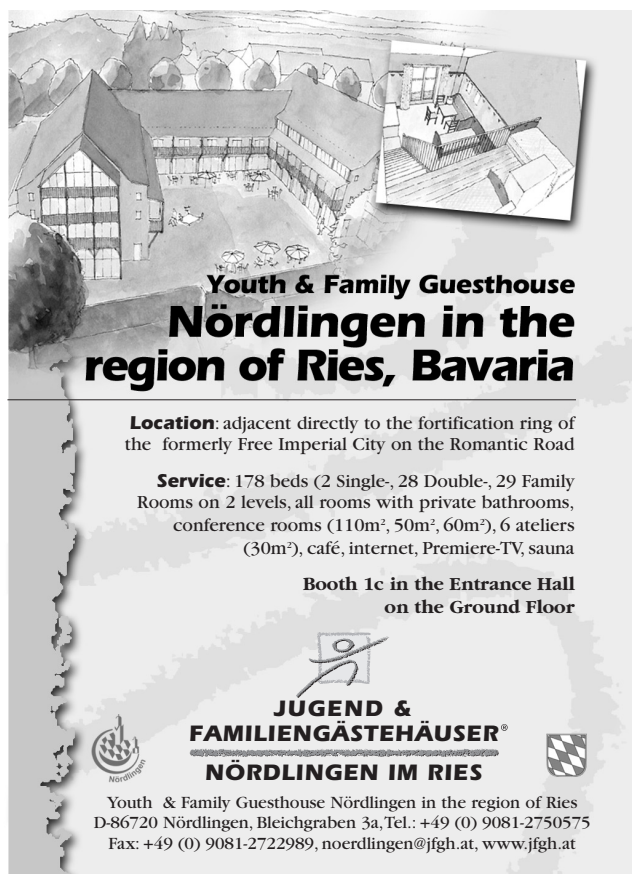
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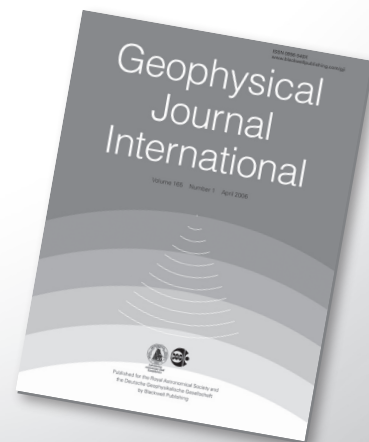
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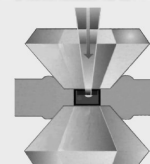
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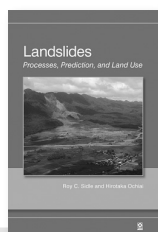


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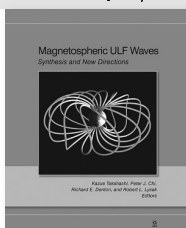
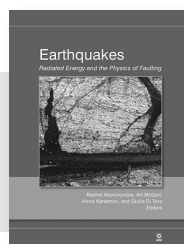
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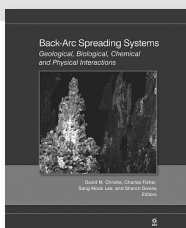
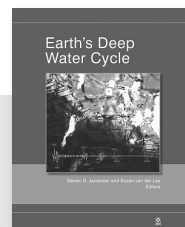
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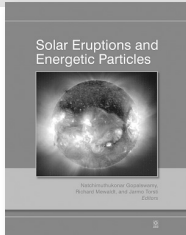
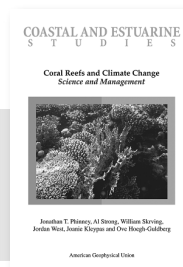
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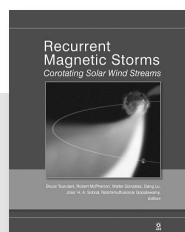
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The Marie Curie Research Training Network “Crust to core” (c2c) is an interdisciplinary consortium aiming to advance the understanding of subduction zone processes, integrating expertise from petrology, experimental and computational mineral sciences, as well as geodynamics. Within this general research goal we will train Ph.D. students and postdocs who will learn to integrate research beyond traditional boundaries. High quality of training will be achieved through collaborative projects performed at different laboratories and specific training courses.

c2c is coordinated by the Bayerisches Geoinstitut, University of Bayreuth, Germany.

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Norwegian Geological Survey, Trondheim, Norway (geodynamics)

University College London, United Kingdom (experimental & computational mineralogy)

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c2c offers: 11 Ph.D. fellowships and 5 postdoc positions

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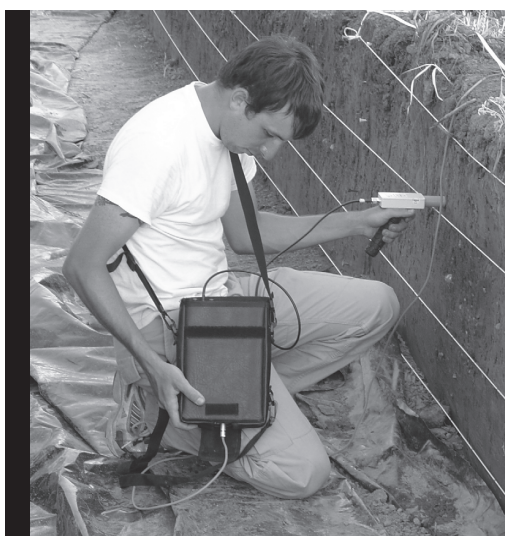
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The aim of the European Collaborative Research (EUROCORES) Programmes is to create the critical mass necessary for topical scientific excellence by enabling European researchers to develop collaboration and scientific synergy.

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(www.esf.org/programmes)

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The Marine Board was established to facilitate enhanced coordination between European marine science organisations and the development of strategies for marine science in Europe. The Marine Board operates by: creating a forum for its member organisations; identifying strategic scientific issues; providing a voice for European marine science; promoting synergy in the management of both national programmes and research infrastructure facilities and investments.

The ESF Marine Board is especially active in one Specific Support Action, and in two ERA-Net Projects:

- FEUFAR: The future of European fisheries and aquaculture research,
- MarinERA: Facilitating the coordination on national and regional marine RTD programmes in Europe, www.marinera.net.
- AMP-ERA: European concerted action to foster prevention and best response to Accidental Marine Pollution

European Polar Board (www.esf.org/epb)

The European Polar Board is Europe's strategic committee on research policy and infrastructures in the Polar Regions. Geosciences feature prominently in several major initiatives as Earth observatories at stations in Antarctica and the Arctic and investigations of the Deep Arctic Ocean (e.g., *Aurora Borealis*). The European Polar Board manages the ERA-Net Project EUROPOLAR: European Polar Consortium: strategic coordination and networking of European polar RTD programmes

European Space Sciences Committee

(www.esf.org/essc)

The European Space Sciences Committee is the European representative body for space research and related activities. It is an independent forum for the European scientific community to debate space science issues, to provide an independent input on the design and implementation of European space science policy.

Check out the ESF activities at the EGU General Assembly 2007: presented in the Union Symposia 5 – “Prospective views for European Cooperation in Geosciences & Environmental Sciences: Contributions in a global context”, and the follow-up reception, Monday 16 April - 10:30-20:00, room 4H. **Visit the ESF booth Stand #45.**

For more information about the European Science Foundation: www.esf.org



Marie Curie Fellowships



“Atomic to Global” Training Programme EU Marie Curie Fellowships

*International Training Opportunities under the Marie Curie
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Bayerisches Geoinstitut, University of Bayreuth, Germany invites applications for

(a) 3-year Ph.D. fellowships

(b) short term fellowships for stays of 3 to 12 months

funded by the European Commission “Marie Curie Actions” in the “Atomic to Global” training programme. The fellowships offer young researchers the possibility to undertake part or all of their Ph.D. studies outside their home country, and to benefit from working with an internationally recognised group in their area of research. In addition to pursuing their own research projects, students will attend lectures, short courses and seminars.

The Marie Curie training site offers fellows in depth training in all aspects of experimental and computational techniques applied to problems in geo- and material sciences, in particular high-pressure synthesis (large volume press and diamond anvil cell technologies), deformation, *in situ* measurements of physical properties (elasticity, rheology, thermal and electrical conductivity, texture analysis), chemical properties (element partitioning, water solubility, phase stability), computational mineralogy, phase characterisation by single-crystal and powder XRD, TEM, as well as IR/VIS/UV, Raman and Mössbauer spectroscopies. Emphasis is placed on how structure and interactions at the atomic scale translate to the understanding of bulk properties and/or global processes.

We are seeking applications from excellent students with a strong quantitative background in Earth sciences, materials sciences, physics, chemistry, or related disciplines. Students should demonstrate prior research experience and independent research interests and work. We encourage candidates to explore research possibilities through our webpage and in discussions with prospective supervisors.

Qualified early stage researchers are those with a masters degree (or equivalent) having a maximum of four years of research experience. Fellows should not have lived more than twelve months during the previous four years in Germany. Up to 30% of the fellowship months can be offered to non-EU applicants. Funding is in accordance with EST rules, and includes a monthly mobility allowance, annual travel costs and career exploration allowance. Applications from female scientists are particularly encouraged.

Three Ph.D. fellowships and up to fifteen short-term fellowships are available during the period of the training programme which is funded until the end of 2009.

Further details including application procedures are available on the web site of the training programme at <http://www.atg.bgi.uni-bayreuth.de>.

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Advances in Geosciences

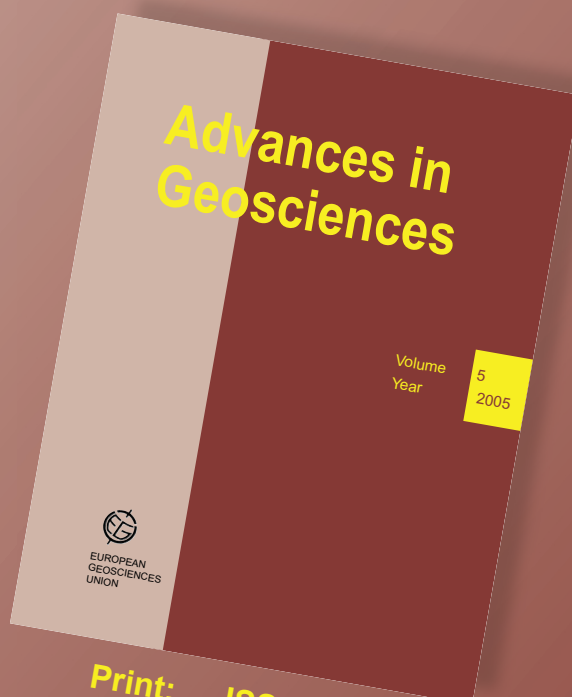
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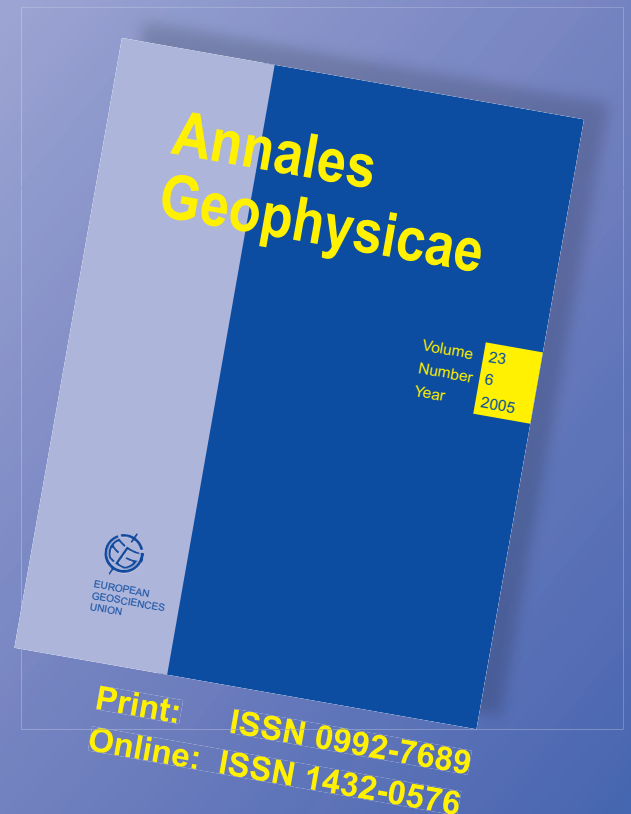
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US	Union Symposia
ES	Educational Symposia
AS	Atmospheric Sciences
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CL	Climate: Past, Present, Future
CR	Cryospheric Sciences
ERE	Energy, Resources and the Environment
GMPV	Geochemistry, Mineralogy, Petrology & Volcanology
G	Geodesy
GD	Geodynamics
GM	Geomorphology
GI	Geosciences Instrumentation and Data Systems
HS	Hydrological Sciences
IG	Isotopes in Geosciences: Instrumentation and Applications
MPRG	Magnetism, Palaeomagnetism, Rock Physics & Geomaterials
NH	Natural Hazards
NP	Nonlinear Processes in Geosciences
OS	Ocean Sciences
PS	Planetary and Solar System Sciences
SM	Seismology
SSS	Soil System Sciences
ST	Solar-Terrestrial Sciences
SSP	Stratigraphy, Sedimentology and Palaeontology
TS	Tectonics and Structural Geology
ML	Medal Lectures
SC	EGU Short Courses
TM	Townhall Meetings
KL	Key Note Lectures
DBM	Division Business Meetings
EBM	Editorial Board Meetings
SPM	Splinter Meetings
UM	Union Meetings
F	Forums



Grants for Access to European Seismological Infrastructures



The European Commission, through the EC FP6 project NERIES (Network of Research Infrastructures for European Seismology) supports grants for access to European seismological centres and infrastructures for periods of research and joint technical developments. The selected infrastructures are characterized by specific scientific and technical facilities as well as for their capacity to provide adequate scientific, technical and logistic support to external users:

ETHZ/SED (Switzerland) operates the most homogeneous and dense regional broadband network in the European-Mediterranean region and specializes in the development of tools for data assimilation, data mining and hazard assessment. Contact: Annemarie Christophersen (annemarie@sed.ethz.ch) www.seismo.ethz.ch/neries

CEA/DASE (France), experts in detection and verification seismology provides access to an extensive database of bulletins and waveforms (seismic / infrasound). A large spectrum of software tools is available for specific studies and benchmarks (source inversion, depth estimation, AI classification, etc.) and access to our large parallel computing infrastructure can also be provided. Contact: Jocelyn Guilbert (jocelyn.guilbert@cea.fr) www-dase.cea.fr

INGV (Italy) hosts the SISMOS scanning and digitalization facility, the most advanced facility for the preservation and the analysis of paper recordings of historical earthquakes through digital scanning. Contact: Alberto Michelini (michelini@ingv.it) Web: <http://sismos.rm.ingv.it>

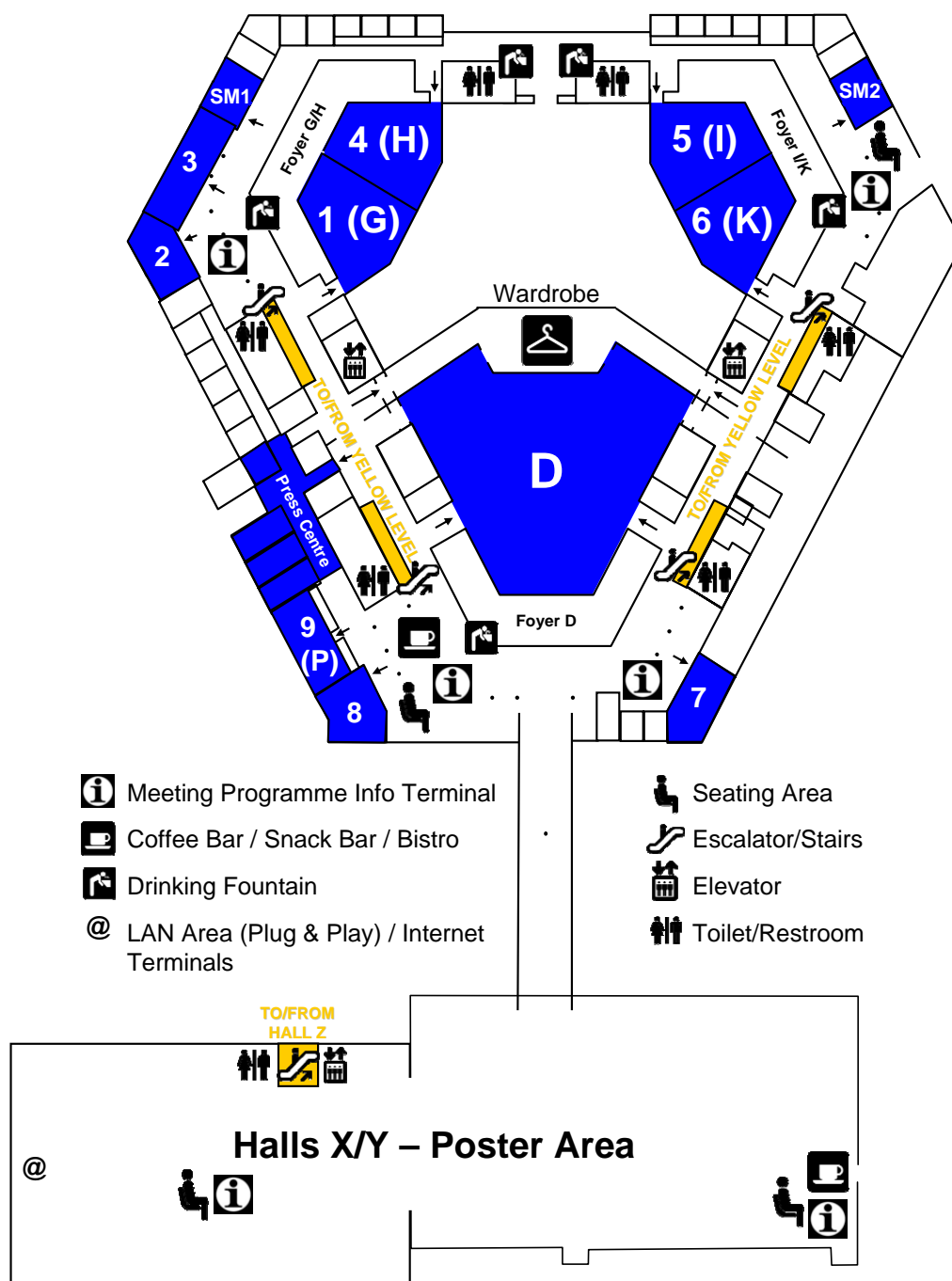
NORSAR (Norway) is the premier seismological array facility in Europe and a leader in research on array seismology and automatic on-line processing of seismological data. Contact: Johannes Schweitzer (johannes.schweitzer@norsar.no) www.norsar.no/seismology/NERIES.html

ZAMG (Austria) runs the underground Conrad Observatory, a well equipped, ultra-quiet facility for research, testing and calibration of seismic instrumentation and acquisition electronics. Contact: Wolfgang Lenhardt (wolfgang.lenhardt@zamg.ac.at) www.zamg.ac.at/conrad_observatory/

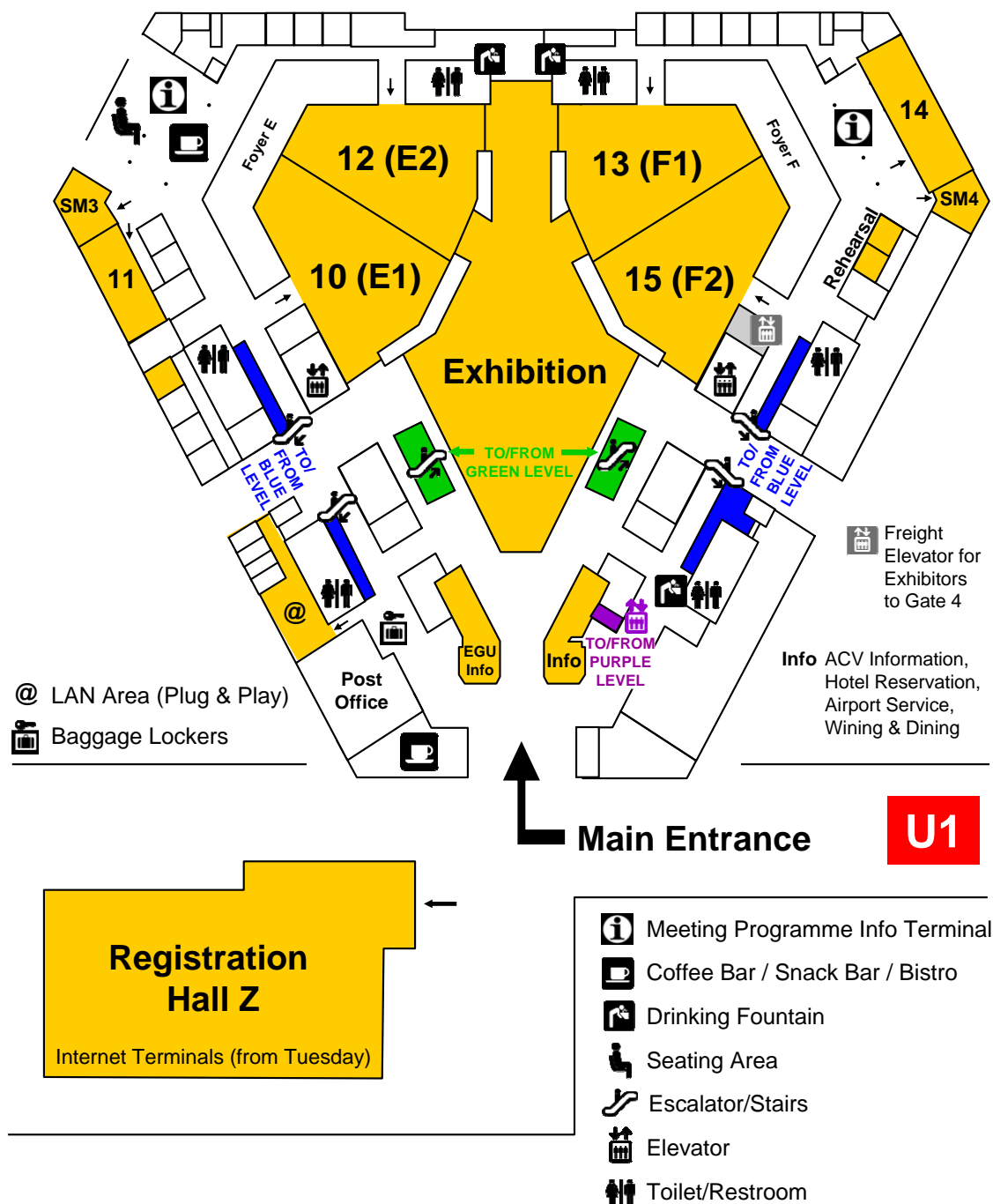
Grants will cover travel and living expenses for periods of up to 2 months, depending on the respective infrastructure, and are primarily open for researchers and network operators from the EU Member States and Associated States. Nevertheless, visitors from other countries can be accepted under specific conditions. Grants are evaluated four times per year with application deadlines on 15 March, 15 June, 15 September, and 15 December. Applications, including a short scientific proposal and the CV of the investigator(s), should be submitted to the contact for each infrastructure. Additional information is available through the NERIES project web pages: <http://neries.knmi.nl>.

NERIES; EC Contract Number 026130

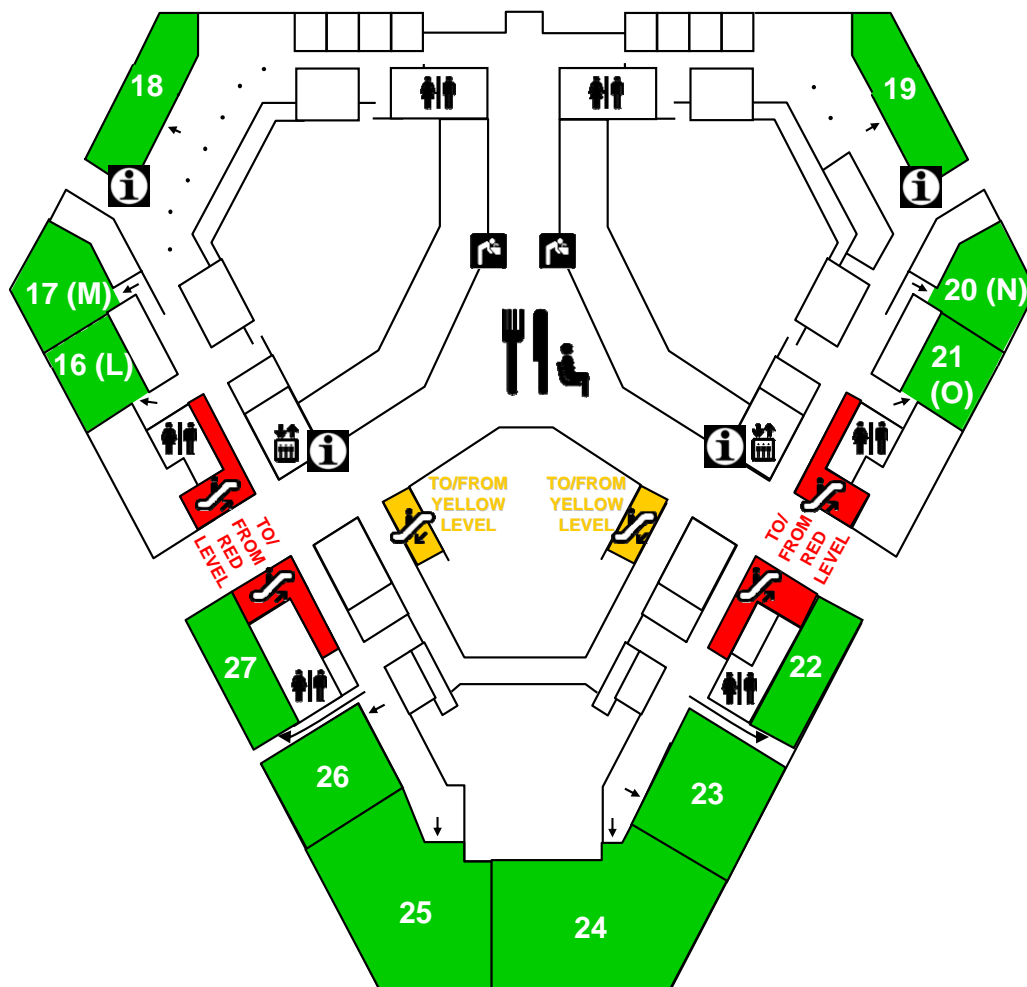
Basement – Blue Level (U2)



Ground Floor – Yellow Level (OE)

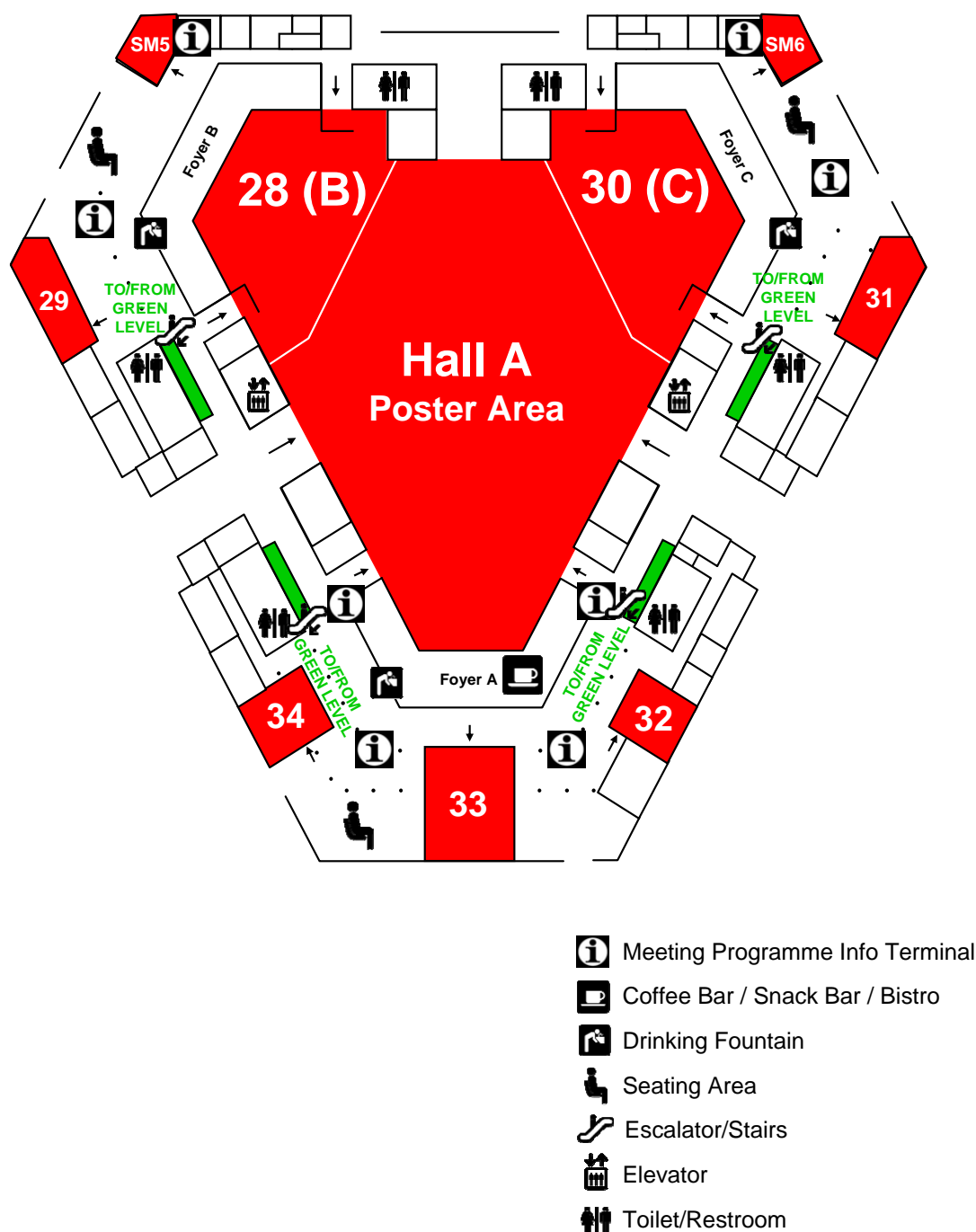


First Floor – Green Level (O1)

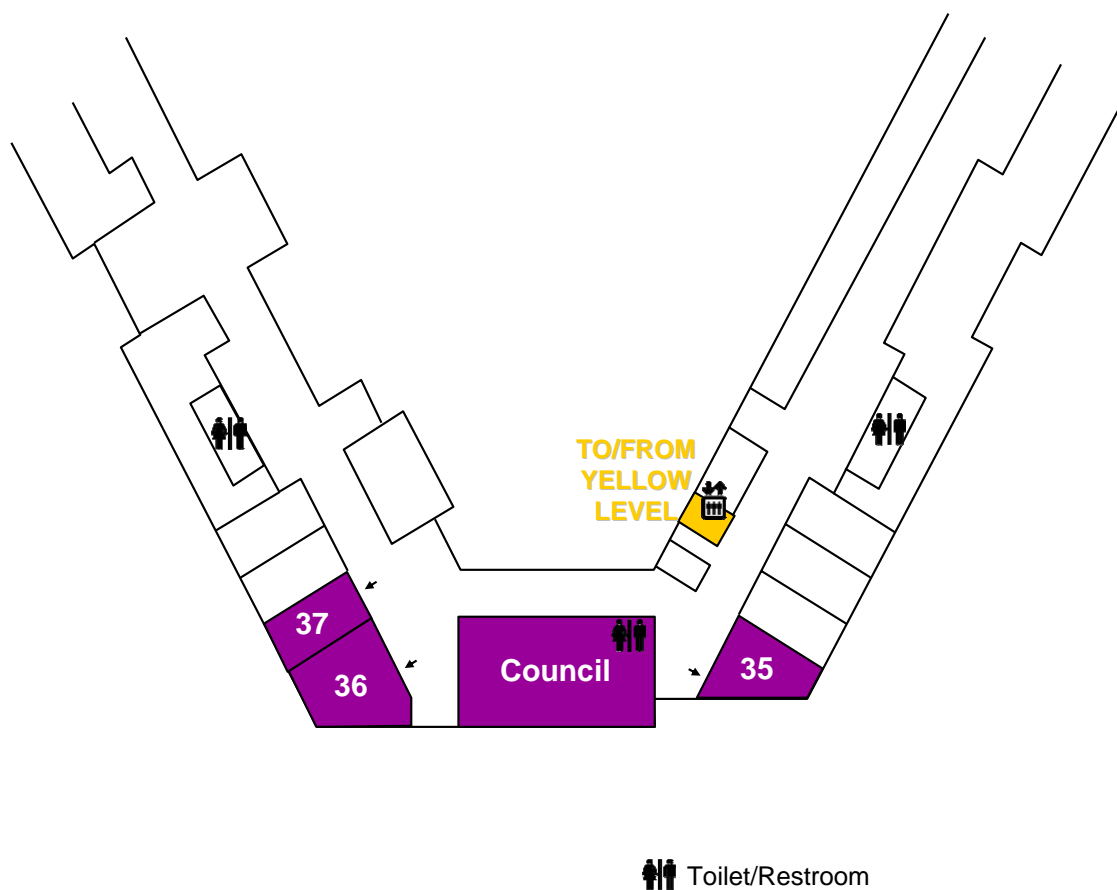


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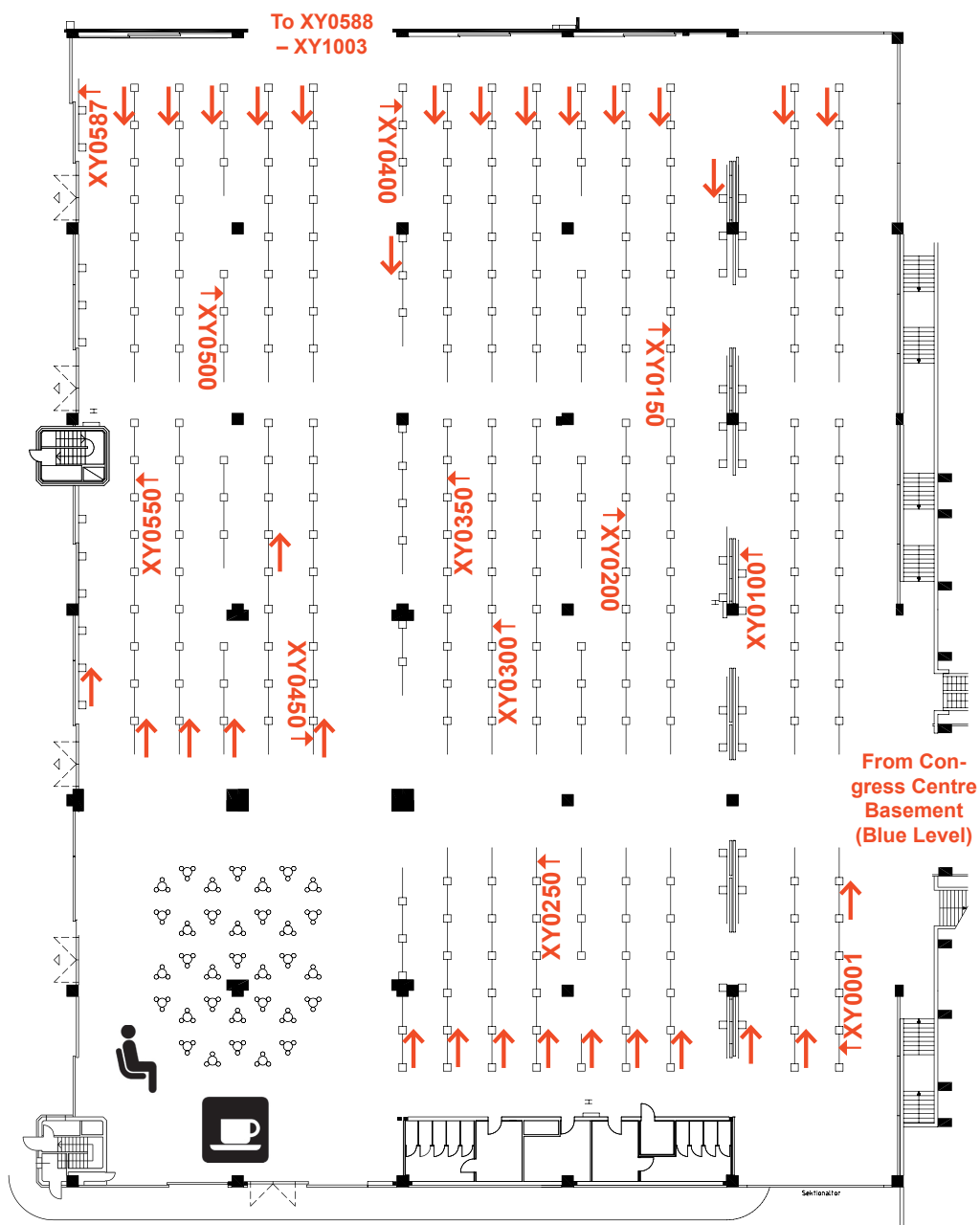
Third Floor – Purple Level (O3)



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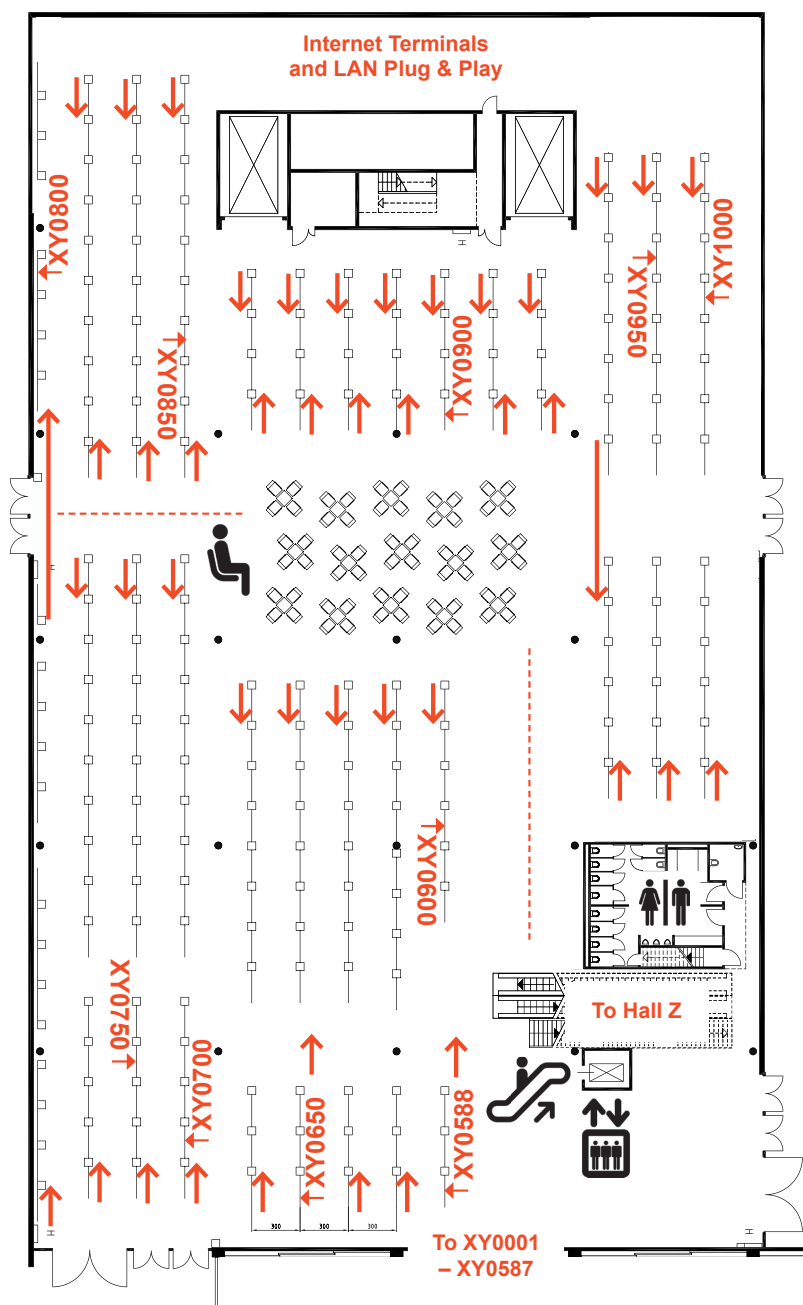
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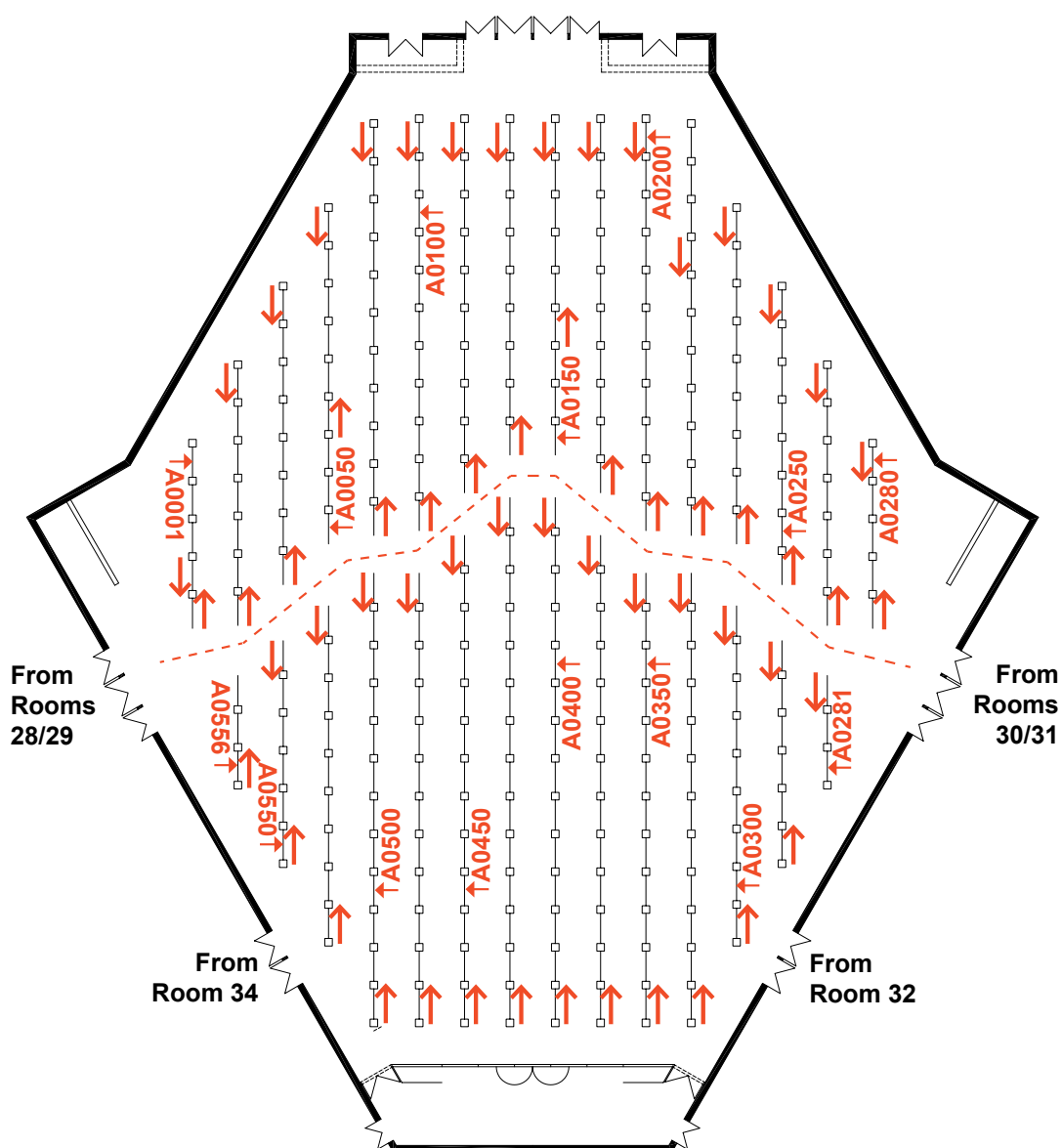
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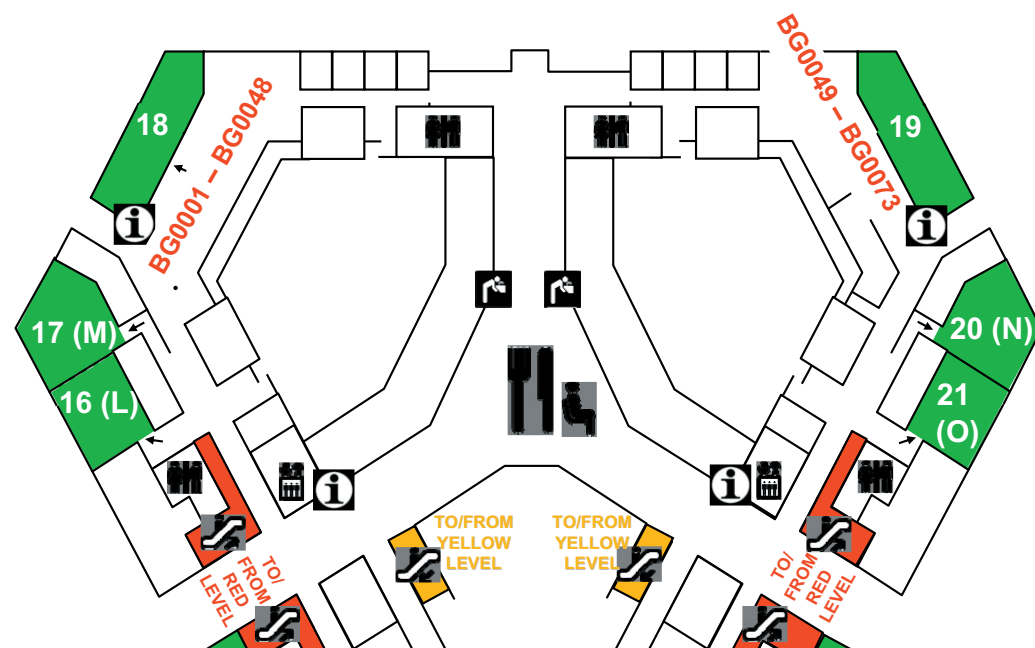
Poster Area Hall A Second Floor – Red Level (O2)

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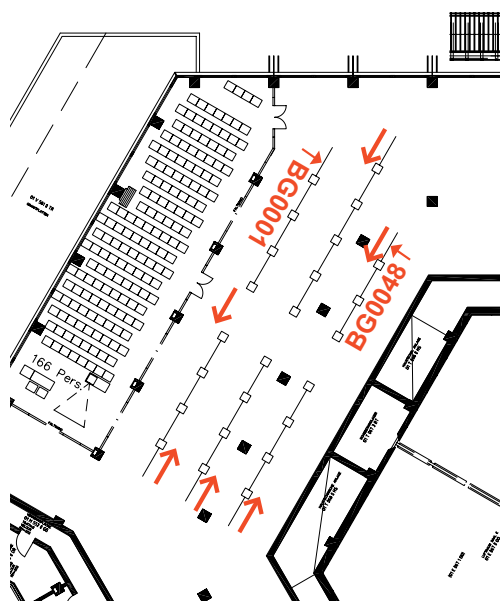


Poster Area Foyer BG First Floor – Green Level (O1)

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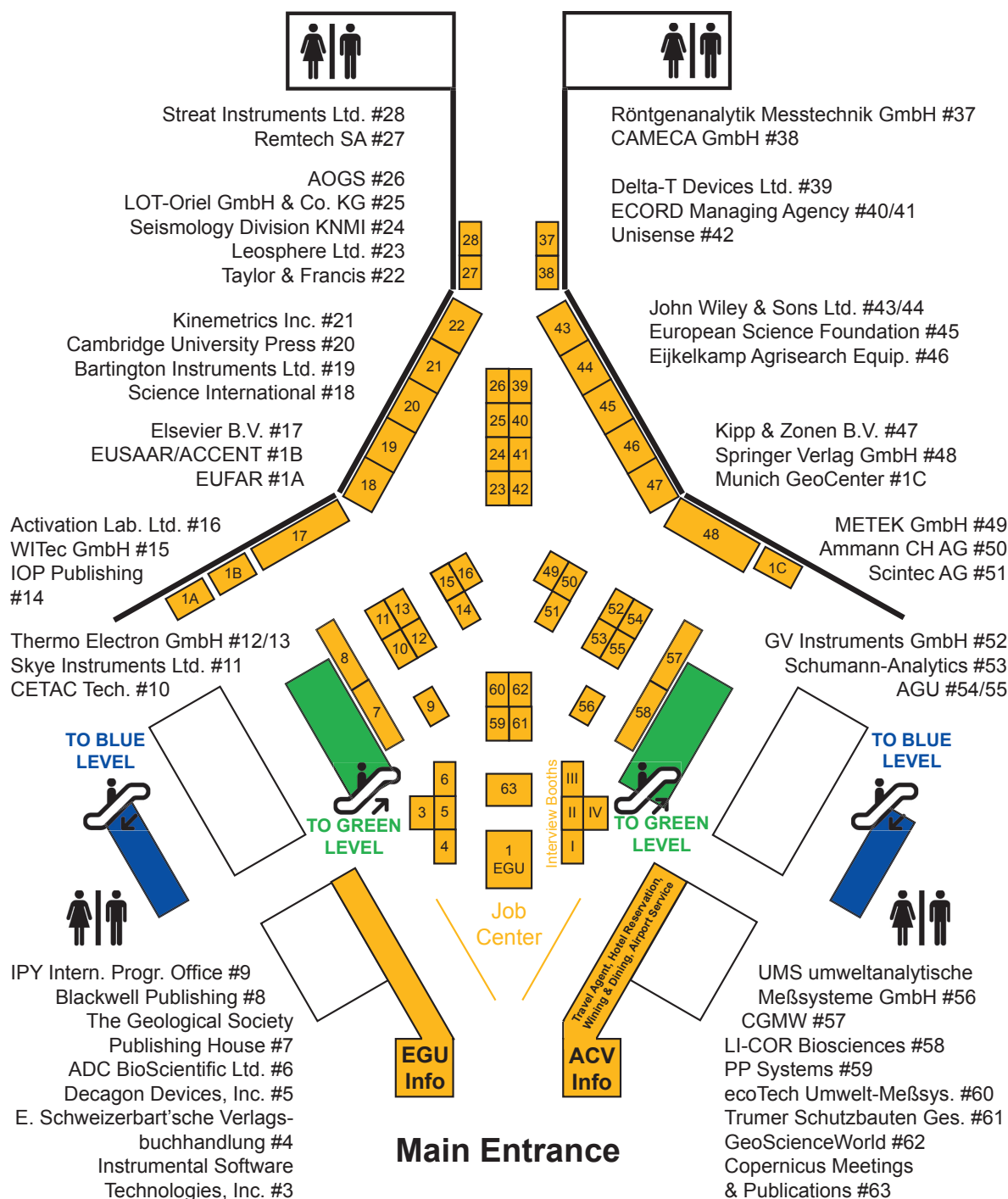


BG0049 – BG0073



BG0074 – BG0098 are located in Room 25

Exhibition / Entrance Hall Ground Floor – Yellow Level (OE)



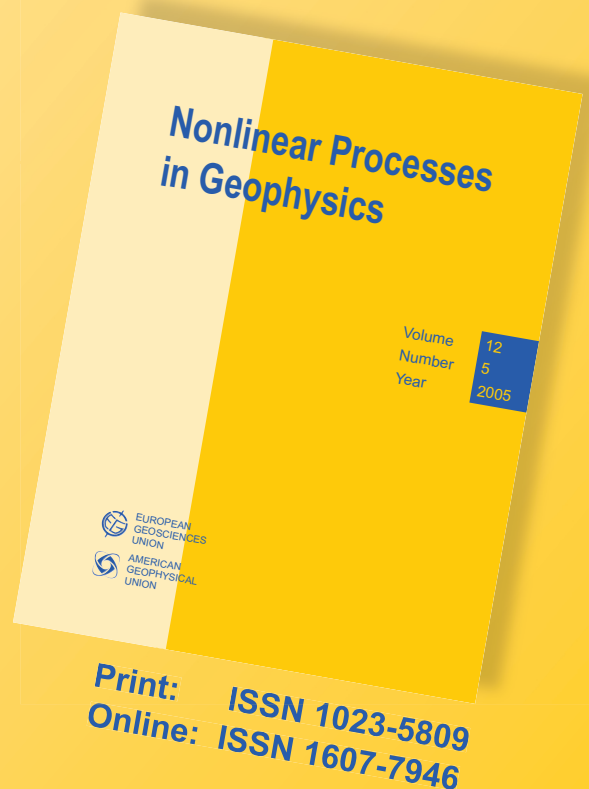
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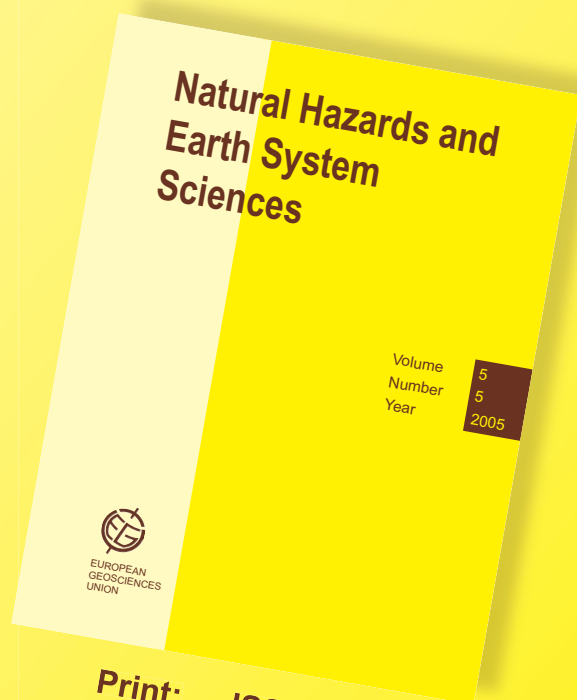
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MO	1	OS1	AS0		TS4.1		TS3.3/NH4.4	CR40	TS10.1	PS2.5	ES1	AS1.04
	2	OS1	AS0	GI9	TS4.1	US5	TS3.3/NH4.4	CR40	TS2.3	PS2.5	ES1	AS1.04
	3	OS1	AS3.10	GI1	NP2.01	US5	TS3.2	G6	OS14	PS2.3	ES1	AS1.04
	4	OS1	AS3.10	GI1	NP2.01	US5	TS3.2	G6	PS1.4	PS2.3	ES1	AS1.04
	5			GI1	NP2.03	US5		G6	PS1.4	PS1.5		
	6					TM05						
TU	1	OS7	AS2.03	GI2	TS6.1	US4	TS1.2	GI1	GM8	PS4	ES1	AS3.09
	2	OS7	AS2.03	GI2	TS8.4/GD06.1/GMPV16	US4	TS1.2	GI1	GM7	PS4	ES1	AS3.09
	3	OS8	AS2.04	GI3	TS8.4/GD06.1/GMPV16 TS8.5/GD06.2/GMPV17	US4	TS1.2 TS1.1	GI1	CR135	PS4	ES1	AS1.07
	4	OS9	AS2.02	GI4	TS8.5/GD06.2/GMPV17	US4	TS1.1	G7/GD15	CR135	ST13	ES1	AS1.08
	5	OS9		GI4		US4	OS8	SM13		ST13		
	6		TM01			ML13	ML16	TM02				
WE	1	OS2	AS3.06	ERE4	TS5.2/SSP24	SM1	TS7.5	G3	GM18	ST14	ES1	AS1.01
	2	OS2	AS3.06	ERE4	TS5.2/SSP24	SM1	TS7.5	G3	GM18	ST14	ES1	AS1.09
	3	OS2	AS3.12	ERE3	TS5.1	SM6	TS7.1	G3	NH1.06	ST14	ES2	AS1.09
	4	OS11	AS3.12	ERE5	TS8.1	PS3.0	TS7.2	G9	NH1.06	ST6	ES2	AS1.15
	5	US1	AS3.12	ERE6		PS3.0	TS7.2			ST6		
	6									TM04		KL01
TH	1	OS3	AS3.05	GI5	OS4	CR140	TS10.2	G5	OS15	PS7.1	ES2	AS1.03
	2	OS3	AS3.05	GI5	OS4	CR120	TS10.2	G5	GM17	PS7.1	ES2	AS1.03
	3	OS16	AS3.08	GI7/PS1.2	TS8.3	NP4.05/US8	TS10.5/GD12/SM19	G8/NH11.02	GM19	PS6	ES3	AS1.03
	4	OS16	AS3.08	GI6/PS1.3	TS8.3	NP4.05/US8	TS10.5/GD12/SM19	G8/NH11.02	GM19	PS6	ES3	AS1.03
	5	OS16		GI6/PS1.3		NP4.05/US8 NP1.01/US9	TS10.5/GD12/SM19	G8/NH11.02	ST4	PS5.3		
	6			ML27		NP1.01/US9	ML17					
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	2	OS13	AS1.16	ERE8	TS9.1	CR150	TS10.4	G4/GD17	SC1	ST2/PS5.2	ES3	AS1.14
	3	OS6	AS1.11	ERE7	TS10.6	PS2.4	TS10.3	OS10	SC1	ST2/PS5.2	ES4	AS1.14
	4	OS6	AS1.11	ERE7	NP2.02/CR180	PS2.4	TS10.3	OS10	SC1	ST2/PS5.2	ES4	AS1.14
	5					PS2.4						

Day	Block	11	12 (E2)	13 (F1)	14	15 (F2)	16 (L)	17 (M)	18	19	20 (N)	21 (O)	22
MO	1	ST10	AS1.02	CL29/CL46		PS2.2	NH8.01/NP4.04	GM12	NH3.01	BG6.02	US7	GMPV19	NP3.01 NP3.02
	2	ST10	AS1.02	CL0	CL2	PS2.2	NH8.01/NP4.04	GM12	NH3.01	BG6.02	US7	GMPV19	NP3.02
	3	ST9	AS1.02	CL0	CL2	PS2.2	NH8.03	GM21	NH3.03	BG6.0/SSS24	BG5.08	GMPV6	NP3.03
	4	ST9	AS1.13	CL0	CL20	PS2.2	NH8.03	GM21	NH3.03	BG6.0/SSS24	BG5.08	GMPV6	NP3.04
	5	ST9		CR10		PS2.2	NH8.03		NH11.03			GMPV6	NP3.05
	6			CR10									
TU	1	PS5	AS3.11	CL28	CL23	ST3	NH7.01	GM11	NH3.09	BG2.01	GMPV18	GMPV3	NP6.01
	2	PS5	AS3.11	CL28	CL23	ST3	NH7.01	GM11	NH3.09	BG2.01	GMPV18	GMPV3	NP6.02
	3	PS5	AS3.02	CL28	CL21	PS2.1	NH9.03	GM11	NH3.13	BG2.02	GMPV20/BG5.10	GMPV1	NP6.03 NP6.06
	4	PS5	AS3.02	CL26	CL38/G112	PS2.1	NH8.04/BG1.04	GM11	NH3.13	BG2.02	GMPV20/BG5.10	GMPV1	NP6.04
	5	PS5.5/MPRG06		F01		PS2.1	NH8.04/BG1.04		NH12			GMPV5	NP6.05
	6			TM03		ML12			NH12				
WE	1	PS2.0	AS3.02	CL25	CL13/CL39	ST7	NH4.01	GM3	NH3.06	BG5.03	BG1.07	GMPV9	NP4.01
	2	PS2.0	AS3.03	CL25	CL13/CL39	ST7	NH4.01	GM4	NH3.06	BG5.03	BG6.06/NP6.09	GMPV9	NP4.01
	3	PS2.0	AS1.10	CL25	CL16/GD14	ST7	NH9.06	GM26	NH3.05	BG1.05	BG0.2	GMPV9	NP4.01
	4	PS1.0	AS1.12/ST15	CL7	CL16/GD14	ST7	NH9.06	GM2	NH3.05	BG1.05	CL10	GMPV7	NP4.03 NP4.02
	5	PS1.0				ST7	NH9.06					GMPV7	NP4.02
TH	1	ST11	AS1.12/ST15	CL18	CL8	PS3.0	NH4.03	GM15	NH2.05	BG6.04	BG5.01/CL48	GMPV2	NP5.01
	2	ST8	AS1.12/ST15	CL18	CL6	PS3.0	NH4.03	GM15	NH2.05	BG6.04	SSP12/BG9	GMPV2	NP5.01 NP5.02
	3	ST8	AS3.04	CL18	CL34	PS3.0	NH4.02	GM9	NH2.02	BG6.04	BG5.05	GMPV8	NP5.02
	4	ST8	AS3.04	CL17	CL11	PS3.1	NH4.02	GM9	NH2.04	BG6.03	BG5.05	GMPV8	NP5.02
	5	ST8		CL17		PS3.1	NH4.02		NH2.03			GMPV12	
FR	1	ST4	AS3.04	CL19/CL14	CL32/CL9	ST5	NH5.01	GM24	NH3.10	BG1.01	BG6.05	GMPV10	NP6.08
	2	ST12	AS3.01	CL19/CL14	CL4	ST5	NH5.01	GM24	NH3.10	BG1.01	BG1.02	GMPV11	NP6.08
	3	ST12	AS3.01	CL19/CL14	CL15	ST5	NH10.02		NH9.01	BG7.01/PS7.3/PS1.1	BG1.08	GMPV14	NP6.07
	4	ST12	AS3.13	CL30/CL3	CL15	ST5	NH10.02		NH9.01	BG7.01/PS7.3/PS1.1		GMPV15	NP6.06
	5									PS7.2		GMPV15	NP6.06

Day	Block	23	24	25	26	27	28 (B)	29	30 (C)	31	32	33	34
MO	1	GD08	NH1.04	CL40	SM5	NH1.03	HS2	G11	HS8	HS20	SSP22	SSS2	MPRG15
	2	GD08	NH1.04	CL40	SM7	NH1.03	HS2	G11	HS8	HS24	SSP22	SSS10	MPRG16
	3	GD08	NH1.04	CL24	SM4	NH1.01	HS33	US11	HS8	HS3	SSP16/CL45	SSS12	MPRG03
	4	GD08	NH1.04	CL24	SM3	NH1.01	HS33	US11	HS49	HS4	SSP16/CL45	SSS12	MPRG03
	5				SM16						SSP16/CL45		
TU	1	GD10	NH1.04	CL36	SM10	NH3.04	HS1	CR100	HS46	HS14	SSP10 SSP4	SSS13	IG1
	2	GD11	NH1.04	CL31	SM2	NH3.04	HS1	CR20	HS46	HS17	SSP14/CL44	SSS13	IG1
	3	GD03	NH1.04	CL22/CL35	SM2	NH3.07	HS1	CR80	HS46	HS11	SSP14/CL44	SSS13	IG1
	4	GD03	NH1.04	CL22/CL35	SM2	NH3.08	HS37	CR90	HS6	HS22	SSP14/CL44	SSS13	MPRG05
	5	GD03	NH1.04			NH3.08					SSP20		
	6						ML06		ML14				
WE	1	GD04	NH1.04	CL1	CR170/GM1	NP3.06	HS27	AS2.01	HS42	HS18	SSP8/CL43/CL33	SSS1	MPRG14
	2	GD09 GD18/G2	NH1.04	CL1	CR170/GM1	NP3.06	HS27	AS2.01	HS23	HS10	SSP8/CL43/CL33 SSP6	SSS19	MPRG17
	3	GD07	NP5.05	BG5.09/CL49	CR70	NP3.07 NP3.08	HS27	AS2.01	HS23	HS15	SSP6	SSS14	MPRG04
	4	GD01	NH1.05	BG5.09/CL49	SM17	NP3.07 NP3.08	HS43	CR130	HS23	HS12	SSP7	SSS15	MPRG04
	5	GD01	NH1.05	BG5.09/CL49	SM17	NP3.08					SSP7		MPRG04
TH	1	GD20	NH1.05	US6	SM22/MPRG18/TS3.1	NH3.02	HS9	US10	HS25	HS29	SSP21	SSS3	IG2/G14 - IG3/G11.5
	2	GD20	NH10.03	US6	SM22/MPRG18/TS3.1	NH3.02	HS9	US10	HS25	HS29	SSP21	SSS3	IG2/G14 - IG3/G11.5
	3	GD19	NH6.02	US6	SM21	NH3.14	HS7	CR160	HS36	HS28	SSP17/BG11/CL47	SSS8	MPRG08
	4	GD19	NH6.02	US6	SM21	NH3.14	HS7	AS1.05	HS36	HS28	SSP5/BG8	SSS11	MPRG01
	5			US6							SSP18		
	6								ML15				
FR	1	GD05	NH6.01	CL12/CL41	SM15	NH9.05	HS32	G10	HS30	HS39	SSP2	SSS4	MPRG07
	2	GD05	NH6.01	CL12/CL41	SM15	NH9.05	HS32	G10	HS30	HS40	SSP3	SSS22	MPRG07
	3	GD05	NH6.01	CL12/CL41	SM11	ERE1	HS19	G10	HS34	HS41	SSP3		MPRG07
	4		NH6.01		SM12	ERE1	HS19		HS34	HS45			

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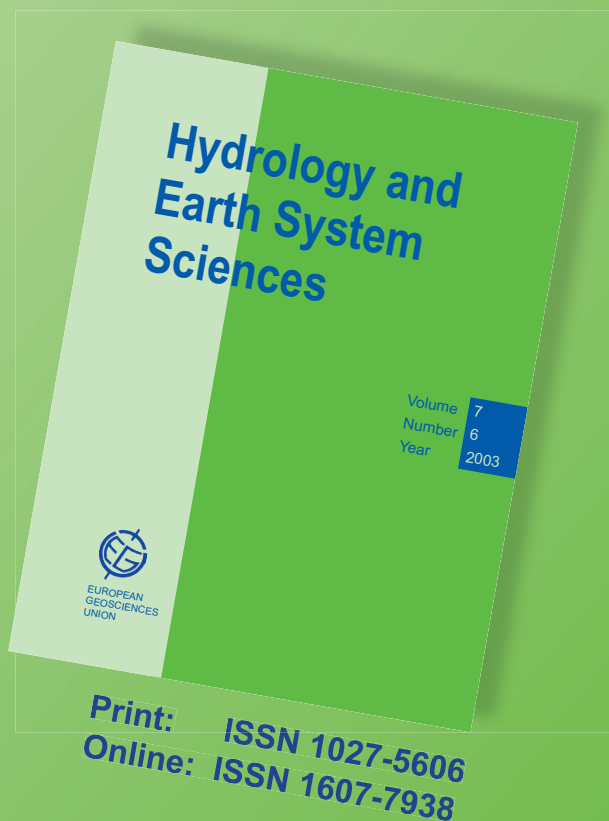
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For your Notes:

PROGRAMME GROUP SCHEDULE

US – UNION SYMPOSIA

O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)

TB: 1: 8:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00

Session	Title	TB	MO	TU	WE	TH	FR
US1	Union Award Presentations and Medal Lectures	1					
		2					
		3					
		4					
		5			O (D)		
US2	The EGU Great Debates on Geosciences (abstract submission by invitation only)	1					
		2					
		3					
		4					
		5					
US3	Carbon Capture and Sequestration – The issues (abstract submission by invitation only)	1					
		2					
		3					
		4					
		5					
US4	Toward a model/data synergy for understanding large changes in Earth Climate History: From the First Glaciation of the Earth to the Quaternary (abstract submission by invitation only) (co-listed in CL)	1		O (4 (H))			
		2		O (4 (H))			
		3		O (4 (H))			
		4		O (4 (H))			
		5		O (4 (H))			
US5	Prospective views for European Cooperation in Geosciences & Environmental Sciences: Contributions in a global context	1					
		2	O (4 (H))				
		3	O (4 (H))				
		4	O (4 (H))				
		5	O (4 (H))				
US6	TOPO-EUROPE - 4-D Topography Evolution in Europe: Uplift, Subsidence and Sea Level Change (abstract submission by invitation only)	1				O (25)	
		2				O (25)	
		3				O (25)	
		4				O (25)	
		5				O (25)	
US7	The International Polar Year 2007-2008 (abstract submission by invitation only)	1	O (20 (N))				
		2	O (20 (N))				
		3					
		4					
		5					
NP4.05/ US8	Earthquake prediction: what can be done with the best science available? (co-organized by US) (co-listed in NH & SM)	1					
		2					
		3		P (XY)		O (4 (H))	
		4				O (4 (H))	
		5				O (4 (H))	
NP1.01/ US9	Frontiers in Nonlinear Processes in Geosciences (co-organized by US) (including Lewis Fry Richardson Medal Lecture)	1					
		2					
		3					
		4					
		5				O (4 (H))	
US10	Earth and Space Science Informatics (ESSI): Standardization and Interoperability of Web Services across the Geosciences	1				O (29)	
		2				O (29)	
		3					
		4					
		5					
US11	Early Earth Evolution	1					
		2					
		3	O (29)				
		4	O (29)				
		5					
US12	The EC 7th RTD Framework Programme: addressing the challenges of global change	1					
		2					
		3					
		4					
		5					
HS1	Strategies to community building in hydrology (invited papers only) (co-listed in US)	1		O (28 (B))			
		2		O (28 (B))			
		3		O (28 (B))			
		4					
		5					

PROGRAMME GROUP SCHEDULE

ES – EDUCATIONAL SYMPOSIA

O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)

TB: 1: 8:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00

Session	Title	TB	MO	TU	WE	TH	FR
ES1	GIFT Workshop: Geosciences in the City	1	O (9 (P))	O (9 (P))	O (9 (P))		
		2	O (9 (P))	O (9 (P))	O (9 (P))		
		3	O (9 (P))	O (9 (P))			
		4	O (9 (P))	O (9 (P))			
		5					
ES2	ECORD Teachers Workshop: Exploring the Ocean Floor with the Integrated Ocean Drilling Program	1				O (9 (P))	
		2				O (9 (P))	
		3			O (9 (P))		
		4			O (9 (P))		
		5					
ES3	Integrating Activities in Environmental Science Education - Approaches and Perspectives	1					O (9 (P))
		2					O (9 (P))
		3				O (9 (P))	
		4				O (9 (P))	
		5				P (XY)	
ES4	Sharing Education and Outreach Experiences in the Earth- and Space Sciences	1					
		2					
		3					O (9 (P))
		4					O (9 (P))
		5					P (XY)
ES5	School Yard Seismology and European Outreach Efforts	1					
		2					
		3					
		4					
		5					

PROGRAMME GROUP SCHEDULE

AS – ATMOSPHERIC SCIENCES

O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)

TB: 1: 8:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00

Session	Title	TB	MO	TU	WE	TH	FR
AS0	Open Session on the Lower, Middle, and Upper Atmosphere	1	O (1 (G))				
		2	O (1 (G))				
		3	P (XY)				
		4	P (XY)				
		5					
AS1.01	Dynamical Meteorology (General Session)	1			O (10 (E1))		
		2			P (XY)		
		3					
		4					
		5					
AS1.02	Numerical Weather Prediction and Data Assimilation (General Session)	1	O (12 (E2))				
		2	O (12 (E2))				
		3	O (12 (E2))				
		4	P (XY)				
		5					
AS1.03	Observation, Prediction and Verification of Precipitation (General Session) (co-listed in HS)	1				O (10 (E1))	
		2				O (10 (E1))	
		3			P (XY)	O (10 (E1))	
		4			P (XY)	O (10 (E1))	
		5					
AS1.04	Clouds, Aerosols and Radiation (General Session)	1	O (10 (E1))				
		2	O (10 (E1))				
		3	O (10 (E1))	P (XY)			
		4	O (10 (E1))	P (XY)			
		5					
AS1.05	Recent developments in Geophysical Fluid Dynamics	1					
		2					
		3				P (XY)	
		4				O (29)	
		5					
AS1.06	Variability and predictability of the coupled stratosphere-troposphere system (co-listed in CL)	1					O (1 (G))
		2					
		3					P (XY)
		4					
		5					
AS1.07	Solar UV	1					
		2		P (XY)			
		3		O (10 (E1))			
		4					
		5					
AS1.08	The quasi-biennial oscillation and its role in the climate system (co-listed in CL)	1					
		2					
		3		P (XY)			
		4		O (10 (E1))			
		5					
AS1.09	The tropical tropopause region	1				P (XY)	
		2			O (10 (E1))	P (XY)	
		3			O (10 (E1))		
		4					
		5					
AS1.10	Dynamics and chemistry of atmospheric moist convection	1					
		2					
		3			O (12 (E2))		
		4			P (XY)		
		5					
AS1.11	Gravity waves (co-listed in OS)	1					P (XY)
		2					
		3					O (1 (G))
		4					O (1 (G))
		5					
AS1.12/ ST15	Joint Session of the MLT and the CAWSES program (co-organized by ST)	1				O (12 (E2))	
		2				O (12 (E2))	
		3					
		4			O (12 (E2))	P (XY)	
		5					

Session	Title	TB	MO	TU	WE	TH	FR
AS1.13	GIS in meteorology and climatology (co-listed in CL)	1					
		2					
		3	P (XY)				
		4	O (12 (E2))				
		5					
AS1.14	African Monsoon Multidisciplinary Analysis (AMMA) (co-listed in OS, BG, CL & SSS)	1					O (10 (E1))
		2					O (10 (E1))
		3				P (XY)	O (10 (E1))
		4				P ()	O (10 (E1))
		5					
AS1.15	Aerosol-Precipitation Interactions	1					
		2			P (XY)		
		3					
		4			O (10 (E1))		
		5					
AS1.16	Stratospheric Dynamics and Ozone	1					
		2					O (1 (G))
		3					P (XY)
		4					
		5					
AS2.01	Air-Land Interactions (General Session) (co-listed in BG & HS)	1			O (29)		
		2			O (29)		
		3			O (29)		
		4			P (XY)		
		5					
AS2.02	Air-Sea Interactions (General Session)	1					
		2					
		3		P (XY)			
		4		O (1 (G))			
		5					
AS2.03	Basic Studies on Turbulence in Atmospheric and Oceanic Boundary Layers (General Session)	1		O (1 (G))			
		2		O (1 (G))			
		3		P (XY)			
		4					
		5					
AS2.04	Boundary Layers in High Latitudes: Observations and Modeling (Colisted in CR and CL)	1					
		2					
		3		O (1 (G))			
		4		P (XY)			
		5					
AS3.01	Gas Phase Composition and Reactivity (General Session)	1					P (XY)
		2					O (12 (E2))
		3					O (12 (E2))
		4					
		5					
AS3.02	Aerosol Chemistry and Microphysics (General Session)	1			O (12 (E2))		
		2			P (XY)		
		3		O (12 (E2))	P (XY)		
		4		O (12 (E2))			
		5					
AS3.03	Cloud Chemistry and Microphysics (General Session)	1					
		2			O (12 (E2))		
		3			P (XY)		
		4					
		5					
AS3.04	Tropospheric Composition: Variability and Trends	1					O (12 (E2))
		2					P (XY)
		3				O (12 (E2))	P ()
		4				O (12 (E2))	
		5					
AS3.05	Vertical and Long-Range Transport of Trace Gases and Aerosols	1				O (1 (G))	
		2				O (1 (G))	
		3				P (XY)	
		4				P (XY)	
		5					
AS3.06	Air Pollution Modelling	1			O (1 (G))		
		2			O (1 (G))		
		3			P (XY)		
		4					
		5					
AS3.08	Reactive Halogen Compounds in the Lower and the Free Troposphere	1					
		2				P (XY)	
		3				O (1 (G))	
		4				O (1 (G))	
		5					

Session	Title	TB	MO	TU	WE	TH	FR
AS3.09	Source apportionment of particulate matter	1		O (10 (E1))			
		2		O (10 (E1))			
		3			P (XY)		
		4			P ()		
		5					
AS3.10	Modelling, Data-Assimilation and Source-Sink Inversion for Operational Atmospheric Composition	1					
		2	P (XY)				
		3	O (1 (G))				
		4	O (1 (G))				
		5					
AS3.11	The Tropospheric Ice Phase	1		O (12 (E2))			
		2		O (12 (E2))			
		3					
		4		P (XY)			
		5					
AS3.12	Megacity Impacts on Regional and Global Scales	1					
		2				P (XY)	
		3			O (1 (G))		
		4			O (1 (G))		
		5			O (1 (G))		
AS3.13	Polar Ozone	1					P (XY)
		2					
		3					
		4					O (12 (E2))
		5					
NP3.02	Scale, Scaling, nonlinear variability and turbulent structures in oceans, atmosphere and the climate (co-listed in AS, BG, CL & OS)	1	O (22)				
		2	O (22)				
		3					
		4		P (XY)			
		5					
NP5.02	Data assimilation in the presence of nonlinearities (co-listed in AS)	1					
		2				O (22)	
		3				O (22)	
		4				O (22)	
		5		P (XY)			
SM21	Research and Development in Nuclear Explosion Monitoring (co-listed in AS)	1					
		2					
		3				O (26)	
		4				O (26)	
		5				P (A)	
CL40	Climate Models Intercomparison: Dynamics and Physical Processes (co-listed in AS , OS & NP)	1	O (25)				
		2	O (25)				
		3					
		4					
		5	P (XY)				
HS41	Statistical concepts in understanding and modelling hydro-climatic change (co-listed in NP, CL and AS)	1					
		2					
		3					O (31)
		4					P (A)
		5					
NP6.05	Turbulence in the Atmosphere and Ocean (co-listed in AS & OS)	1					
		2					
		3			P (XY)		
		4					
		5		O (22)			
CL21	Generality of Climate Models and their Components (co-listed in AS & NP)	1					
		2					
		3		O (14)			
		4					
		5		P (XY)			
CL23	Surface Radiation Budget, Radiative Forcings and Climate Change (co-listed in AS)	1		O (14)			
		2		O (14)			
		3					
		4					
		5		P (XY)			
HS40	Novel techniques for measuring rainfall micro- and macro-structure (co-listed in AS & NH)	1					
		2					O (31)
		3					
		4					P (A)
		5					
HS39	Stochastic-dynamic modelling of precipitation (co-listed in NP & AS)	1					O (31)
		2					
		3					
		4					P (A)
		5					

Session	Title	TB	MO	TU	WE	TH	FR
NH1.01	Satellite Remote Sensing Applications in Hydrometeorology, Water Cycle, and Flood Forecasting (co-listed in AS)	1					
		2					
		3	O (27)				
		4	O (27)				
		5	P (XY)				
NH1.05	Propagation of uncertainty in advanced meteo-hydrological forecast systems (co-listed in AS)	1				O (24)	
		2				P (XY)	
		3					
		4			O (24)		
		5			O (24)		
NH1.02	Advances in radar, satellite and hydrological modelling methods for flash flood and droughts forecasting (co-listed in AS)	1					
		2					
		3					
		4					
		5					
NH1.03	Diagnosis, modelling and forecasting of meteorological and hydrological hazards produced by extreme weather and climate change (co-listed in AS & CL)	1	O (27)				
		2	O (27)				
		3					
		4					
		5	P (XY)				
NH1.04	Precipitation Science (co-listed in AS) (including Sergey Soloviev Medal Lecture)	1		O (24)	O (24)		
		2		O (24)	O (24)		
		3		O (24)	P (XY)		
		4		O (24)			
		5		O (24)			
NH1.06	Lightning (co-listed in AS)	1					
		2					
		3			O (7)		
		4			O (7)		
		5			P (XY)		
GI5	Space Instrumentation (co-listed in PS, ST, AS, G & OS)	1				O (2)	
		2				O (2)	P (XY)
		3					
		4					
		5					
GI2	Atmosphere, Ocean and Meteorological Instruments (co-listed in AS, CL, OS, PS & ST)	1		O (2)			
		2		O (2)			
		3					
		4					
		5			P (XY)		
GI4	Instrumentation related to polar regions and the IPY (co-listed in AS, BG, CR & OS)	1					
		2					
		3					
		4		O (2)			
		5		O (2)	P (XY)		
GI10	Informatics: distributed information systems - technology and applications (co-listed in AS, CL, G, CR, GD, GM, GMPV, HS, MPRG, OS, PS, ST, SM, TS, SSP, SSS & NH)	1					O (29)
		2					O (29)
		3					O (29)
		4					P (XY)
		5					
CR70	Snow dynamics and snow-atmosphere exchange over Greenland and Antarctica (co-listed in AS & CL)	1					
		2					
		3			O (26)		
		4					
		5			P (A)		
CR132	Sea ice edge processes: atmosphere, ocean, ice interactions	1					
		2					
		3					
		4					
		5					
CL2	Monthly, seasonal and decadal forecasting (co-listed in NP & AS)	1					
		2	O (14)				
		3	O (14)				
		4					
		5	P (XY)				
OS6	IMBER/SOLAS Special Session (co-listed in AS, BG, CL & NP)	1					
		2					
		3					O (D)
		4					O (D)
		5			P (XY)		
CL7	Antarctica and the Global Climate System (co-listed in AS, CR & OS)	1					
		2					
		3					
		4			O (13 (F1))		
		5			P (XY)		

Session	Title	TB	MO	TU	WE	TH	FR
CL38/GI12	Earth System Modelling: Strategies and Software (co-organized by GI, co-listed in AS, HS & OS)	1					
		2					
		3					
		4		O (14)			
		5		P (XY)			
HS19	Monitoring and modelling for soil and ecohydrological processes across landscape elements	1					
		2					P (A)
		3					O (28 (B))
		4					O (28 (B))
		5					
HS22	River and stream temperature: dynamics, processes, models and implications	1					
		2					
		3					
		4		O (31)	P (A)		
		5					
HS31	Coupled modelling and observation of terrestrial and atmospheric water fluxes across multiple spatial and temporal scales	1					
		2					
		3					
		4					
		5					
HS32	Climate-soil and vegetation interactions in ecological-hydrological processes (co-listed in AS, CL, NP & SSS)	1					O (28 (B))
		2					O (28 (B))
		3					P (A)
		4					
		5					

PROGRAMME GROUP SCHEDULE

BG – BIOGEOSCIENCES

O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)

TB: 1: 8:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00

Session	Title	TB	MO	TU	WE	TH	FR
BG0.1	Presentation of poster only sessions	1					
		2					
		3					
		4					
		5					
BG0.2	Biodiversity science in Europe: new tools and strategies (EuroDIVERSITY) (co-listed in ERE)	1					
		2			P (BG)		
		3			O (20 (N))		
		4					
		5					
BG1.01	From biogenic primary exchange to atmospheric fluxes of reactive trace gases	1					O (19)
		2					O (19)
		3					P (BG)
		4					
		5					
BG1.02	Methane fluxes from permafrost ecosystems in relation to climate change	1					
		2					O (20 (N))
		3					P (BG)
		4					
		5					
NH8.04/ BG1.04	Spatial and temporal patterns of wildfires: models, theory, and reality (co-organized by BG & NH)	1					
		2			P (XY)		
		3					
		4		O (16 (L))			
		5		O (16 (L))			
BG1.05	Analysis and Characterization of Black Carbon in the Environment (co-listed in AS, HS, OS & SSS)	1					
		2			P (BG)		
		3			O (19)		
		4			O (19)		
		5					
NH8.02/ BG1.06	Heavy-metal contamination of water, air, soil, and foodcrops (co-organized by NH and BG) (co-listed in SSS)	1					
		2		P (XY)			
		3					
		4					
		5					
BG1.07	Electron transfer processes in soils, sediments, and aquifers: concepts and cases (co-listed in SSS)	1			O (20 (N))		
		2			P (BG)		
		3					
		4					
		5					
BG1.08	Biogeochemistry and ecohydrology of arid and semi-arid ecosystems (co-listed in HS)	1					
		2					
		3					O (20 (N))
		4					P (BG)
		5					
BG2.01	DOM biogeochemistry and ecosystem function: from soils to oceans (co-listed in OS)	1		O (19)			
		2		O (19)			
		3		P (BG)			
		4					
		5					
BG2.02	Biogeochemistry of coastal seas and continental shelves (co-listed in OS)	1					
		2		P (BG)			
		3		O (19)			
		4		O (19)			
		5					
BG3.03	Fluvial networks and biogeochemistry (co-listed in HS)	1					
		2					
		3	P (BG)				
		4					
		5					
BG5.01/ CL48	Calibration and validation of marine and terrestrial proxies: from empiricism towards a mechanistic understanding (co-organized by CL) (co-listed in SSP)	1				O (20 (N))	
		2					
		3					
		4				P (BG)	
		5					

Session	Title	TB	MO	TU	WE	TH	FR
BG5.02	ABC of biomarkers in biogeosciences: Abundance, Biosynthesis, and isotopic Composition (co-listed in IG & CL)	1					
		2					
		3					
		4					
		5					
BG5.03	Application of stable isotopes in biogeosciences (co-listed in IG)	1			O (19)		
		2			O (19)		
		3			P (BG)		
		4					
		5					
BG5.05	Environmental Micropaleontology: microfossils as proxies of recent and past environmental change (co-listed in CL)	1					
		2				P (BG)	
		3				O (20 (N))	
		4				O (20 (N))	
		5					
BG5.08	Natural and anthropogenic environmental change as evidenced in high-resolution continental archives (co-listed in CL)	1					
		2	P (BG)				
		3	O (20 (N))				
		4	O (20 (N))				
		5					
BG5.09/ CL49	Climate variability and the carbon cycle (past, present and future): The EuroCLIMATE Programme on multi-proxy reconstructions and coupled climate models at European and regional scales (co-organized by CL) (co-listed in CR & SSP) (including OYS Lecture)	1					
		2			P (BG)		
		3			O (25)		
		4			O (25)		
		5			O (25)		
GMPV 20/ BG5.10	Mineral properties and behaviour: the European Mineral Sciences Initiative (EuroMinSci) open session (including the EMU Research Excellence Medal Lecture) (co-organized by BG) (co-listed in CR, NP, SSP)	1		P (A)			
		2		P ()			
		3		O (20 (N))			
		4		O (20 (N))			
		5					
BG6.0/ SSS24	Geomicrobiology: mineralization, weathering and biofilms (co-organized by SSS)	1					
		2	P (BG)				
		3	O (19)				
		4	O (19)				
		5					
BG6.02	Molecular Geomicrobiology: Linking geochemical processes to community structure, genomic and evolutionary biology (co-sponsored by ISME)	1	O (19)				
		2	O (19)				
		3	P (BG)				
		4					
		5					
BG6.03	Ecosystems of the deep sea-floor and their geological drivers (co-listed in SSP, OS & CL)	1					
		2		P (BG)			
		3					
		4				O (19)	
		5					
BG6.04	Methane fluxes on continental margins: ecosystems, drivers and controls (co-listed in CL)	1				O (19)	
		2				O (19)	
		3				O (19)	
		4				P (BG)	
		5					
BG6.05	Biogeochemical interactions in chemosynthetic deep-sea ecosystems: methods, tools and strategies (co-listed in OS)	1					O (20 (N))
		2					P (BG)
		3					
		4					
		5					
BG6.06/ NP6.09	Coupling biogeochemistry and ecology to fluid dynamics in aquatic ecosystems (co-organized by NP) (co-listed in OS)	1					
		2			O (20 (N))		
		3					
		4		P (BG)			
		5					
BG7.01/ PS7.3/ PS1.1	Astrobiology, Mars and robotic exploration (co-organized by PS)	1					
		2					P (BG)
		3					O (19)
		4					O (19)
		5					
NP3.02	Scale, Scaling, nonlinear variability and turbulent structures in oceans, atmosphere and the climate (co-listed in AS, BG, CL & OS)	1	O (22)				
		2	O (22)				
		3					
		4		P (XY)			
		5					
NP3.01	Scale, scaling and nonlinear variability in aquatic biogeosystems (co-listed in BG & OS)	1	O (22)				
		2					
		3					
		4		P (XY)			
		5					

Session	Title	TB	MO	TU	WE	TH	FR
HS45	Modelling and observation of hydrological and biological processes in West Africa (co-listed in BG)	1					
		2					P (A)
		3					
		4					O (31)
		5					
HS28	Catchment structure and connectivity (co-listed in GM, BG & SSS)	1					
		2					P (A)
		3				O (31)	
		4				O (31)	
		5					
OS14	Turbulent mixing in aquatic ecosystems - physical processes and ecosystem responses (co-listed in BG)	1					
		2					
		3	O (7)				
		4					
		5			P (XY)		
SSS4	Organic soils, processes, mechanisms and utilization (co-listed in BG)	1					O (33)
		2					
		3					
		4					
		5				P (A)	
SSS8	The mechanisms, especially diffusion, by which soil organic matter influences chemical fate: Chromium as a case study (co-listed in BG)	1					
		2					
		3				O (33)	
		4					
		5				P (A)	
SSS19	Soil remediation processes: New insights into the role of mineral surfaces and bioaccessibility of residues(co-listed in BG) (including Philippe Duchafour Medal Lecture)	1					
		2			O (33)		
		3					
		4					
		5			P (A)		
SSS22	Ants in the Soil System. A hydrological, chemical and biological approach (co-listed in BG)	1					
		2					O (33)
		3					P (A)
		4					
		5					
GI4	Instrumentation related to polar regions and the IPY (co-listed in AS, BG, CR & OS)	1					
		2					
		3					
		4		O (2)			
		5		O (2)	P (XY)		
OS15	Fate of riverine matter in marine environments: pathways, feedbacks, characterization and quantification (co-listed in BG)	1				O (7)	
		2					
		3					
		4					
		5	P (XY)				
CL1	Organic Carbon-Rich Marine Sediments Past, Present and Future : Oceans and Climate Feedbacks (co-listed in BG & SSP)	1			O (25)		
		2			O (25)		
		3					
		4					
		5			P (XY)		
CL15	Physical and Biogeochemical feedbacks in the Climate System (co-listed in BG)	1					
		2					P (XY)
		3					O (14)
		4					O (14)
		5					
SSP5/ BG8	Microbial Carbonates (co-sponsored by IAS and co-organized by BG)	1					P (A)
		2					
		3					
		4				O (32)	
		5					
SSP12/ BG9	New proxies in sedimentary geochemistry (co-organized by BG, co-listed in IG & CL)	1					
		2				O (20 (N))	
		3				P (A)	
		4					
		5					
SSP15/ BG10	Environmental Micropaleontology: microfossils as proxies of recent and past environmental change (co-organized by BG)	1					
		2					
		3					
		4					
		5					
SSP17/ BG11/ CL47	Environmental perturbations during the Palaeozoic-Mesozoic interval: Organic geochemical and palynological proxies (co-organized by BG & CL)	1					
		2					
		3				O (32)	
		4					
		5				P (A)	

Session	Title	TB	MO	TU	WE	TH	FR
OS3	Ocean Tracers and Anthropogenic CO ₂ (co-listed in BG & CL)	1				O (D)	
		2				O (D)	
		3					
		4					
		5	P (XY)				
OS6	IMBER/SOLAS Special Session (co-listed in AS, BG, CL & NP)	1					
		2					
		3					O (D)
		4					O (D)
		5			P (XY)		
HS15	Colloids, microorganisms and coupled hydrological, biological and chemical processes in the unsaturated zone	1					
		2					
		3			O (31)		
		4			P (A)		
		5					
HS16	Coupled hydrological, biological and chemical processes in the unsaturated zone	1					
		2					
		3					
		4					
		5					
HS19	Monitoring and modelling for soil and ecohydrological processes across landscape elements	1					
		2					P (A)
		3					O (28 (B))
		4					O (28 (B))
		5					
HS22	River and stream temperature: dynamics, processes, models and implications	1					
		2					
		3					
		4		O (31)	P (A)		
		5					
HS23	Hydrological, chemical and biological processes in rivers and riparian zones (co-listed in BG & GM)	1					
		2			O (30 (C))		
		3			O (30 (C))	P (A)	
		4			O (30 (C))		
		5					
SSS3	Soil genesis, soil quality, biological indicators and soil functions, including education (co-listed in BG)	1				O (33)	
		2				O (33)	
		3					
		4					
		5				P (A)	
OS1	Open session on large scale ocean circulation variability (co-listed CL, BG) (including Fridjof Nansen Medal Lecture)	1	O (D)				
		2	O (D)				
		3	O (D)				
		4	O (D)				
		5	P (XY)				
OS2	Open session on coastal and shelf oceanography (co-listed BG)	1			O (D)		
		2			O (D)		
		3			O (D)		
		4					
		5			P (XY)		
AS1.14	African Monsoon Multidisciplinary Analysis (AMMA) (co-listed in OS, BG, CL & SSS)	1					O (10 (E1))
		2					O (10 (E1))
		3				P (XY)	O (10 (E1))
		4				P (I)	O (10 (E1))
		5					
TS5.2/ SSP24	Processes of rifting, sediment transport, fluid flow and biogenic activity: EUROMARGINS open session (co-organized by SSP) (co-listed in BG & CL)	1			O (3)		P (XY)
		2			O (3)		
		3					
		4					
		5					
OS17	Biodiversity Science in the deep sea: EuroDEEP open session (co-listed BG)	1					
		2					
		3					
		4					
		5					

PROGRAMME GROUP SCHEDULE

CL – CLIMATE: PAST, PRESENT, FUTURE

O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)

TB: 1: 8:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00

Session	Title	TB	MO	TU	WE	TH	FR
CL0	Open Session on Climatology and Palaeoclimatology (including Milutin Milankovic Medal Lecture)	1					
		2	O (13 (F1))				
		3	O (13 (F1))				
		4	O (13 (F1))				
		5	P (XY)				
CL1	Organic Carbon-Rich Marine Sediments Past, Present and Future : Oceans and Climate Feedbacks (co-listed in BG & SSP)	1			O (25)		
		2			O (25)		
		3					
		4					
		5			P (XY)		
CL2	Monthly, seasonal and decadal forecasting (co-listed in NP & AS)	1					
		2	O (14)				
		3	O (14)				
		4					
		5	P (XY)				
CL4	Assessment of climate events in lake sediments	1					
		2					O (14)
		3					P (XY)
		4					P (XY)
		5					
GD09	Ice-Mass Fluctuations and the Dynamical Responses of the Solid Earth (co-organized by G)	1					
		2			O (23)		
		3				P (A)	
		4				P (I)	
		5					
CL6	Past atmospheric circulation	1					
		2				O (14)	
		3					
		4					
		5				P (XY)	
CL8	Climate and ocean dynamics from high-resolution marine archives (co-listed in OS)	1				O (14)	
		2					
		3					
		4					
		5				P (XY)	
CL10	Regional and Global Climate Impact of the Atlantic Ocean Variability (co-listed in OS)	1					
		2					
		3					
		4			O (20 (N))		
		5			P (XY)		
CL11	Monsoon climates - variability, changes and paleo-perspectives	1					
		2					
		3					
		4				O (14)	
		5				P (XY)	
CL12/ CL41	Mediterranean Climate Variability / Black Sea-Mediterranean Corridor during last 30 ky: Sea level change and human adaptation	1					O (25)
		2					O (25)
		3					O (25)
		4					P (XY)
		5					
CL13/ CL39	Large-scale climate modes in the Northern Hemisphere / Atmospheric teleconnections	1			O (14)		
		2			O (14)		
		3					
		4					
		5			P (XY)		
CL15	Physical and Biogeochemical feedbacks in the Climate System (co-listed in BG)	1					
		2					P (XY)
		3					O (14)
		4					O (14)
		5					
CL16/ GD14	East African geodynamics, climate and evolution (co-organized with GD) (co-listed in TS & SSP)	1					
		2					
		3			O (14)		
		4			O (14)		
		5			P (XY)		

Session	Title	TB	MO	TU	WE	TH	FR
CL17	Observing climate change and variability from space: achievements and challenges	1					
		2					
		3				P (XY)	
		4				O (13 (F1))	
		5				O (13 (F1))	
CL18	Anthropogenic climate changes: forcing, modelling, detection and impact (co-listed in ERE)	1				O (13 (F1))	
		2				O (13 (F1))	
		3				O (13 (F1))	
		4					
		5				P (XY)	
CL19/ CL14	Climatic Extremes and their Impacts (co-listed in HS & ERE) / Mid-latitude cyclones: processes, variability, changes and impacts	1					O (13 (F1))
		2					O (13 (F1))
		3					O (13 (F1))
		4					P (XY)
		5					
CL20	Probabilistic Forecasts of Climate and the Potential Impacts of Climate Change (co-listed in NP & ERE)	1					
		2					
		3					
		4	O (14)				
		5	P (XY)				
CL21	Generality of Climate Models and their Components (co-listed in AS & NP)	1					
		2					
		3		O (14)			
		4					
		5		P (XY)			
CL22/ CL35	Land-atmosphere coupling in past, present and future climate (co-listed in AS, BG & HS) / Subsurface temperature signals of climate change, processes involved, and importance to climate modeling	1					
		2					
		3		O (25)			
		4		O (25)			
		5		P (XY)			
CL23	Surface Radiation Budget, Radiative Forcings and Climate Change (co-listed in AS)	1		O (14)			
		2		O (14)			
		3					
		4					
		5		P (XY)			
CL24	Modelling the Climates of the Late Quaternary	1					
		2					
		3	O (25)				
		4	O (25)				
		5	P (XY)				
CL25	EPICA-MIS: EPICA ice cores, marine counterparts, and Quaternary Earth System Dynamics (co-listed in CR)	1			O (13 (F1))		
		2			O (13 (F1))		
		3			O (13 (F1))		
		4					
		5			P (XY)		
CL26	Past, Present and Future Changes in Ocean Circulation: Data and Models (co-listed in OS)	1					
		2					
		3					
		4		O (13 (F1))			
		5		P (XY)			
CL27	Decadal to millennial marine records of ice sheet decay	1					
		2					
		3					
		4					
		5					
CL28	Climate of the last millennium: reconstructions, analyses and explanation of regional and seasonal changes (including Hans Oeschger Medal Lecture)	1		O (13 (F1))			
		2		O (13 (F1))			
		3		O (13 (F1))			
		4					
		5		P (XY)			
CL29/ CL46	Millennial-scale variability / Solar forcing of climate	1	O (13 (F1))				
		2					
		3					
		4					
		5	P (XY)				
CL30/ CL3	(Sub)Arctic Ocean circulation and climate change - natural and anthropogenic forcing (co-listed in OS)	1					
		2					
		3					P (XY)
		4					O (13 (F1))P ()
		5					
CL31	Antarctic cryosphere and Southern Ocean climate evolution (Cenozoic-Holocene)	1					
		2		O (25)			
		3					
		4					
		5		P (XY)			

Session	Title	TB	MO	TU	WE	TH	FR
CL32/ CL9	Applied Quaternary Geochronology (co-listed in GM) / High-resolution radiocarbon chronologies - methods and applications	1					O (14)
		2					P (XY)
		3					P (XY)
		4					
		5					
CL34	Aeolian dust as a player and recorder of environmental change (co-listed in GM & SSP, co-sponsored by IAS)	1					
		2					
		3				O (14)	
		4					
		5				P (XY)	
CL36	Marine and terrestrial paleoclimate records - recent advances in IODP and ICDP	1		O (25)			
		2					
		3					
		4					
		5		P (XY)			
CL38/ GI12	Earth System Modelling: Strategies and Software (co-organized by GI, co-listed in AS, HS & OS)	1					
		2					
		3					
		4		O (14)			
		5		P (XY)			
CL40	Climate Models Intercomparison: Dynamics and Physical Processes (co-listed in AS, OS & NP)	1	O (25)				
		2	O (25)				
		3					
		4					
		5	P (XY)				
SSP8/ CL43/ CL33	Closing the gap between geological data and numerical modelling / Oxygen-18 in climate models, observations and palaeo-data (co-organized by CL)	1			O (32)		
		2			O (32)		
		3					
		4					
		5			P (A)		
SSP14/ CL44	Palaeoceanographic and palaeoclimatic change during the Palaeozoic, Mesozoic and Cenozoic: sedimentological, palaeontological, geochemical and modelling perspectives (co-organized by CL; co-sponsored by IAS)	1					
		2		O (32)			
		3		O (32)			
		4		O (32)			
		5		P (A)			
SSP16/ CL45	Climate events recorded in speleothems (co-organized by CL) (co-listed in IG)	1					
		2					
		3	O (32)				
		4	O (32)				
		5	O (32)	P (A)			
NP3.02	Scale, Scaling, nonlinear variability and turbulent structures in oceans, atmosphere and the climate (co-listed in AS, BG, CL & OS)	1	O (22)				
		2	O (22)				
		3					
		4		P (XY)			
		5					
NP4.02	Statistical analysis of paleoclimate time series (co-listed in CL)	1					
		2					
		3		P (XY)			
		4			O (22)		
		5			O (22)		
NH1.03	Diagnosis, modelling and forecasting of meteorological and hydrological hazards produced by extreme weather and climate change (co-listed in AS & CL)	1	O (27)				
		2	O (27)				
		3					
		4					
		5	P (XY)				
SSP9	Ordovician glaciations (co-listed in CR & CL)	1					
		2					
		3					
		4					
		5					
GI2	Atmosphere, Ocean and Meteorological Instruments (co-listed in AS, CL, OS, PS & ST)	1		O (2)			
		2		O (2)			
		3					
		4					
		5			P (XY)		
GI10	Informatics: distributed information systems - technology and applications (co-listed in AS, CL, G, CR, GD, GM, GMPV, HS, MPRG, OS, PS, ST, SM, TS, SSP, SSS & NH)	1					O (29)
		2					O (29)
		3					O (29)
		4					P (XY)
		5					
GM16	Cold regions geomorphology: linking high- and mid-latitudes (co-listed in CL & CR)	1					
		2					
		3					
		4					
		5					

Session	Title	TB	MO	TU	WE	TH	FR
GM20	Earth surface processes and carbon cycling (co-listed in CL & IG)	1					
		2					
		3					
		4					
		5					
CR20	Open session on permafrost (co-listed in CL, GM & NH)	1					
		2		O (29)			
		3	P (A)				
		4					
		5					
CR40	Climate change impacts on glaciers, permafrost and related hazards (co-listed in NH & CL)	1	O (6 (K))				
		2	O (6 (K))				
		3	P (A)				
		4					
		5					
CR70	Snow dynamics and snow-atmosphere exchange over Greenland and Antarctica (co-listed in AS & CL)	1					
		2					
		3			O (26)		
		4					
		5			P (A)		
CR120	Observations of glaciers and ice sheets from space (co-listed in G & CL)	1					
		2				O (4 (H))	
		3					
		4					
		5				P (A)	
CR130	Glaciology, climate, and oceanography of the Antarctic Peninsula and the sub-Antarctic (co-listed in CL & HS)	1					
		2					
		3					
		4			O (29)		
		5			P (A)		
CL7	Antarctica and the Global Climate System (co-listed in AS, CR & OS)	1					
		2					
		3					
		4			O (13 (F1))		
		5			P (XY)		
CR140	Ice sheet - climate interactions (co-listed in CL)	1				O (4 (H))	
		2					
		3					
		4					
		5				P (A)	
OS7	High latitude changes in ocean, ice and climate (co-listed in CR & CL)	1		O (D)			
		2		O (D)			
		3					
		4					
		5	P (XY)				
OS12	Sea Level: Changes and their Causes (co-listed in CL & CR)	1					
		2					
		3					
		4					
		5					
SSP17/ BG11/ CL47	Environmental perturbations during the Palaeozoic-Mesozoic interval: Organic geochemical and palynological proxies (co-organized by BG & CL)	1					
		2					
		3				O (32)	
		4					
		5				P (A)	
OS3	Ocean Tracers and Anthropogenic CO ₂ (co-listed in BG & CL)	1				O (D)	
		2				O (D)	
		3					
		4					
		5	P (XY)				
OS6	IMBER/SOLAS Special Session (co-listed in AS, BG, CL & NP)	1					
		2					
		3					O (D)
		4					O (D)
		5			P (XY)		
SSS2	Soil as a record of the past	1	O (33)				
		2					
		3					
		4					
		5	P (A)				
MPRG05	Paleomagnetism, Climate and Environmental magnetism (co-listed in CL and SSP)	1					
		2		P (A)			
		3					
		4		O (34)			
		5					

Session	Title	TB	MO	TU	WE	TH	FR
HS29	Objective and process-based catchment classification as a tool for predictions in ungauged basins	1				O (31)	
		2				O (31)	
		3				P (A)	
		4					
		5					
HS32	Climate-soil and vegetation interactions in ecological-hydrological processes (co-listed in AS, CL, NP & SSS)	1					O (28 (B))
		2					O (28 (B))
		3					P (A)
		4					
		5					
HS36	Hydrological extremes: controls, spatial & temporal variability and regional patterns	1					
		2					P (A)
		3				O (30 (C))	
		4				O (30 (C))	
		5					
OS1	Open session on large scale ocean circulation variability (co-listed CL, BG) (including Fridjof Nansen Medal Lecture)	1	O (D)				
		2	O (D)				
		3	O (D)				
		4	O (D)				
		5	P (XY)				
OS11	Temporal variability of ocean temperature (heat content) and salinity (freshwater content). (co-listed CL)	1					
		2					
		3					
		4			O (D)		
		5			P (XY)		
HS25	Lakes and inland seas under anthropogenic impact and climate change (co-listed in CL & ERE)	1				O (30 (C))	
		2				O (30 (C))	
		3				P (A)	
		4					
		5					
GM9	Monitoring and modelling in periglacial and glacial geomorphology (co-listed in CR & CL)	1					
		2					
		3				O (17 (M))	
		4				O (17 (M))	
		5				P (XY)	
GM15	Deep Alpine Valleys: recording the topographic, climatic and tectonic evolution of mountain belts (co-listed in CL)	1				O (17 (M))	
		2				O (17 (M))	
		3					
		4					
		5				P (XY)	
BG6.04	Methane fluxes on continental margins: ecosystems, drivers and controls (co-listed in CL)	1				O (19)	
		2				O (19)	
		3				O (19)	
		4				P (BG)	
		5					
GM2	Aeolian Processes and Landforms (co-listed in CL)	1					
		2					
		3					
		4			O (17 (M))		
		5			P (XY)		
HS41	Statistical concepts in understanding and modelling hydro-climatic change (co-listed in NP, CL and AS)	1					
		2					
		3					O (31)
		4					P (A)
		5					
BG5.02	ABC of biomarkers in biogeosciences: Abundance, Biosynthesis, and isotopic Composition (co-listed in IG & CL)	1					
		2					
		3					
		4					
		5					
US4	Toward a model/data synergy for understanding large changes in Earth Climate History: From the First Glaciation of the Earth to the Quaternary (abstract submission by invitation only) (co-listed in CL)	1		O (4 (H))			
		2		O (4 (H))			
		3		O (4 (H))			
		4		O (4 (H))			
		5		O (4 (H))			
BG5.01/ CL48	Calibration and validation of marine and terrestrial proxies: from empiricism towards a mechanistic understanding (co-organized by CL) (co-listed in SSP)	1				O (20 (N))	
		2					
		3					
		4				P (BG)	
		5					
TS5.2/ SSP24	Processes of rifting, sediment transport, fluid flow and biogenic activity: EUROMARGINS open session (co-organized by SSP) (co-listed in BG & CL)	1			O (3)		P (XY)
		2			O (3)		
		3					
		4					
		5					

Session	Title	TB	MO	TU	WE	TH	FR
BG5.09/ CL49	Climate variability and the carbon cycle (past, present and future): The EuroCLIMATE Programme on multi-proxy reconstructions and coupled climate models at European and regional scales (co-organized by CL) (co-listed in CR & SSP) (including Outstanding Y	1					
		2			P (BG)		
		3			O (25)		
		4			O (25)		
		5			O (25)		
AS1.14	African Monsoon Multidisciplinary Analysis (AMMA) (co-listed in OS, BG, CL & SSS)	1					O (10 (E1))
		2					O (10 (E1))
		3				P (XY)	O (10 (E1))
		4				P ()	O (10 (E1))
		5					
BG5.05	Environmental Micropaleontology: microfossils as proxies of recent and past environmental change (co-listed in CL)	1					
		2				P (BG)	
		3				O (20 (N))	
		4				O (20 (N))	
		5					
BG5.08	Natural and anthropogenic environmental change as evidenced in high-resolution continental archives (co-listed in CL)	1					
		2	P (BG)				
		3	O (20 (N))				
		4	O (20 (N))				
		5					
BG6.03	Ecosystems of the deep sea-floor and their geological drivers (co-listed in SSP, OS & CL)	1					
		2		P (BG)			
		3					
		4				O (19)	
		5					
ERE5	Climate change impact on economical and industrial activities (co-listed in CL)	1					
		2					
		3				P (XY)	
		4			O (2)		
		5					
ERE6	Integrated assessment of energy options and risk assessment methodologies (co-listed in CL)	1					
		2					
		3				P (XY)	
		4					
		5			O (2)		
SSP12/ BG9	New proxies in sedimentary geochemistry (co-organized by BG, co-listed in IG & CL)	1					
		2				O (20 (N))	
		3				P (A)	
		4					
		5					
SSP21	Reconstructing the Cretaceous World: Integration of data from the Boreal, Tethys, deep sea and the continents (co-listed in CL)	1				O (32)	
		2				O (32)	
		3					
		4					
		5				P (A)	
GM11	Mechanisms of coupling and feedback between tectonics, climate and surface processes (co-listed in GD & CL)	1		O (17 (M))			
		2		O (17 (M))			
		3		O (17 (M))			
		4		O (17 (M))			
		5		P (XY)			
GM17	Quaternary Landscape Evolution and Paleo-Geoecology (co-listed in CL)	1					
		2				O (7)	
		3					
		4					
		5				P (XY)	
GM19	Quantifying and modelling human and climate controlled sediment dynamics (co-listed in CL)	1					
		2					
		3				O (7)	
		4				O (7)	
		5				P (XY)	
HS38	Anthropogenic impacts on transitional environments (co-listed in CL & ERE)	1					
		2					
		3					
		4					
		5					
NP2.01	ENSO: dynamics, predictability and response to climate change (co-listed in CL & OS)	1					
		2					
		3	O (3)	P (XY)			
		4	O (3)				
		5					
NP2.03	Nonlinear low-frequency variability in atmosphere, ocean and the climate system (co-listed in CL & OS)	1					
		2					
		3		P (XY)			
		4					
		5	O (3)				

Session	Title	TB	MO	TU	WE	TH	FR
NP4.03	Simple dynamical models from data: a tool for parametrizations and diagnostics (co-listed in CL)	1					
		2					
		3		P (XY)			
		4			O (22)		
		5					

PROGRAMME GROUP SCHEDULE

CR – CRYOSPHERIC SCIENCES

O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)

TB: 1: 8:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00

Session	Title	TB	MO	TU	WE	TH	FR
GM16	Cold regions geomorphology: linking high- and mid-latitudes (co-listed in CL & CR)	1					
		2					
		3					
		4					
		5					
CR10	Open session on cryospheric sciences (including Louis Agassiz Medal Lecture)	1					
		2					
		3					
		4	P (A)				
		5	O (13 (F1))				
CR20	Open session on permafrost (co-listed in CL, GM & NH)	1					
		2		O (29)			
		3	P (A)				
		4					
		5					
CR30	Permafrost degradation: Geological, geophysical, biological, engineering and health implications (co-listed in NH)	1					
		2					
		3					
		4					
		5					
CR40	Climate change impacts on glaciers, permafrost and related hazards (co-listed in NH & CL)	1	O (6 (K))				
		2	O (6 (K))				
		3	P (A)				
		4					
		5					
CR70	Snow dynamics and snow-atmosphere exchange over Greenland and Antarctica (co-listed in AS & CL)	1					
		2					
		3			O (26)		
		4					
		5			P (A)		
CR80	Mass and energy balance of snow and ice	1					
		2					
		3		O (29)			
		4					
		5		P (A)			
CR90	Mountain Hydrology and Climatology: present state and future scenarios (co-listed in HS)	1					
		2					
		3					
		4		O (29)			
		5		P (A)			
CR100	Remote sensing of snow cover and sea ice (co-listed in HS)	1		O (29)			
		2					
		3					
		4					
		5		P (A)			
CR110	Numerical modelling and satellite remote sensing – exploiting synergies to gain improved insights	1					
		2					
		3					
		4					
		5					
CR120	Observations of glaciers and ice sheets from space (co-listed in G & CL)	1					
		2				O (4 (H))	
		3					
		4					
		5				P (A)	
G10	Geodetic observations for the International Polar Year (co-listed in CR)	1					
		2					
		3					
		4					
		5				P (XY)	
GI4	Instrumentation related to polar regions and the IPY (co-listed in AS, BG, CR & OS)	1					
		2					
		3					
		4		O (2)			
		5		O (2)	P (XY)		

Session	Title	TB	MO	TU	WE	TH	FR
CR130	Glaciology, climate, and oceanography of the Antarctic Peninsula and the sub-Antarctic (co-listed in CL & HS)	1					
		2					
		3					
		4			O (29)		
		5			P (A)		
CL7	Antarctica and the Global Climate System (co-listed in AS, CR & OS)	1					
		2					
		3					
		4			O (13 (F1))		
		5			P (XY)		
CR132	Sea ice edge processes: atmosphere, ocean, ice interactions	1					
		2					
		3					
		4					
		5					
CR135	Modelling sea ice and ice-ocean interactions (co-listed in OS)	1					
		2					
		3		O (7)			
		4		O (7)			
		5		P (A)			
OS7	High latitude changes in ocean, ice and climate (co-listed in CR & CL)	1		O (D)			
		2		O (D)			
		3					
		4					
		5	P (XY)				
CR140	Ice sheet - climate interactions (co-listed in CL)	1				O (4 (H))	
		2					
		3					
		4					
		5				P (A)	
CL25	EPICA-MIS: EPICA ice cores, marine counterparts, and Quaternary Earth System Dynamics (co-listed in CR)	1			O (13 (F1))		
		2			O (13 (F1))		
		3			O (13 (F1))		
		4					
		5			P (XY)		
CR150	Modelling ice sheets and glaciers	1					O (4 (H))
		2					O (4 (H))
		3					
		4				P (A)	
		5					
NP2.02/ CR180	Nonlinear cryospheric dynamics (co-organized by NP and CR)	1					
		2					
		3					
		4				P (XY)	O (3)
		5					
CR160	Subglacial environments – properties and processes influencing ice dynamics	1					
		2					
		3				O (29)	
		4				P (A)	
		5					
CR170/ GM1	Subglacial landforms: observations and modelling (co-organised in GM)	1			O (26)		
		2			O (26)		
		3					
		4					
		5			P (A)		
SSP9	Ordovician glaciations (co-listed in CR & CL)	1					
		2					
		3					
		4					
		5					
GI10	Informatics: distributed information systems - technology and applications (co-listed in AS, CL, G, CR, GD, GM, GMPV, HS, MPRG, OS, PS, ST, SM, TS, SSP, SSS & NH)	1					O (29)
		2					O (29)
		3					O (29)
		4					P (XY)
		5					
GM1	Linking process and pattern in glaciated landscapes (co-listed in CR)	1					
		2					
		3					
		4					
		5					
OS12	Sea Level: Changes and their Causes (co-listed in CL & CR)	1					
		2					
		3					
		4					
		5					

Session	Title	TB	MO	TU	WE	TH	FR
GMPV20/ BG5.10	Mineral properties and behaviour: the European Mineral Sciences Initiative (EuroMinSci) open session (including the EMU Research Excellence Medal Lecture) (co-organized by BG) (co-listed in CR, NP, SSP)	1		P (A)			
		2		P (I)			
		3		O (20 (N))			
		4		O (20 (N))			
		5					
BG5.09/ CL49	Climate variability and the carbon cycle (past, present and future): The EuroCLIMATE Programme on multi-proxy reconstructions and coupled climate models at European and regional scales (co-organized by CL) (co-listed in CR & SSP) (including Outstanding Y	1					
		2			P (BG)		
		3			O (25)		
		4			O (25)		
		5			O (25)		

PROGRAMME GROUP SCHEDULE

ERE – ENERGY, RESOURCES AND THE ENVIRONMENT

O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)

TB: 1: 8:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00

Session	Title	TB	MO	TU	WE	TH	FR
ERE1	Wind Power Meteorology	1					
		2					P (XY)
		3					O (27)
		4					O (27)
		5					
ERE3	Renewable resources in general	1					
		2				P (XY)	
		3			O (2)		
		4					
		5					
ERE4	Advances in CO2 storage in geological systems	1			O (2)		
		2			O (2)		
		3					
		4				P (XY)	
		5				P ()	
ERE5	Climate change impact on economical and industrial activities (co-listed in CL)	1					
		2					
		3				P (XY)	
		4			O (2)		
		5					
ERE6	Integrated assessment of energy options and risk assessment methodologies (co-listed in CL)	1					
		2					
		3				P (XY)	
		4					
		5			O (2)		
ERE7	Natural stone resources for historical monuments	1					
		2				P (XY)	
		3				P ()	O (2)
		4					O (2)
		5					
ERE8	Aggregates – the most widely used geological material	1					
		2					O (2)
		3					
		4				P (XY)	
		5					
ERE9	Archaeometry: The use of geoscientific techniques to probe the archaeological environment	1					O (2)
		2					P (XY)
		3					
		4					
		5					
ERE10	The role of geosciences towards the resource 'architecture'	1					
		2					
		3					
		4					
		5					
ERE2	Nonlinear problems of wind energy	1					
		2					
		3					
		4					
		5					
HS12	Geothermal energy and brine transport	1					
		2					
		3					
		4			O (31)	P (A)	
		5					
CL19/ CL14	Climatic Extremes and their Impacts (co-listed in HS & ERE) / Mid-latitude cyclones: processes, variability, changes and impacts	1					O (13 (F1))
		2					O (13 (F1))
		3					O (13 (F1))
		4					P (XY)
		5					
HS38	Anthropogenic impacts on transitional environments (co-listed in CL & ERE)	1					
		2					
		3					
		4					
		5					

Session	Title	TB	MO	TU	WE	TH	FR
BG0.2	Biodiversity science in Europe: new tools and strategies (EuroDIVERSITY) (co-listed in ERE)	1					
		2			P (BG)		
		3			O (20 (N))		
		4					
		5					
CL18	Anthropogenic climate changes: forcing, modelling, detection and impact (co-listed in ERE)	1				O (13 (F1))	
		2				O (13 (F1))	
		3				O (13 (F1))	
		4					
		5				P (XY)	
CL20	Probabilistic Forecasts of Climate and the Potential Impacts of Climate Change (co-listed in NP & ERE)	1					
		2					
		3					
		4	O (14)				
		5	P (XY)				
HS25	Lakes and inland seas under anthropogenic impact and climate change (co-listed in CL & ERE)	1				O (30 (C))	
		2				O (30 (C))	
		3				P (A)	
		4					
		5					

PROGRAMME GROUP SCHEDULE

GMPV – GEOCHEMISTRY, MINERALOGY, PETROLOGY & VOLCANOLOGY

O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)

TB: 1: 8:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00

Session	Title	TB	MO	TU	WE	TH	FR
GMPV1	Understanding physical and chemical signals from active volcanoes	1		P (A)			
		2		P ()			
		3		O (21 (O))			
		4		O (21 (O))			
		5					
GMPV2	New monitoring techniques applied to active volcanoes	1				O (21 (O))	
		2				O (21 (O))	
		3				P (A)	
		4				P (A)	
		5				P (A)	
GMPV3	Phase changes, magma properties, and magmatic and eruptive processes	1		O (21 (O))			
		2		O (21 (O))			
		3	P (A)				
		4	P (A)				
		5	P (A)				
GMPV4	Deterministic and probabilistic prediction of volcanic scenarios	1					
		2					
		3					
		4					
		5					
GMPV5	Advances in the knowledge of the magmatic and eruptive history of European active volcanoes	1					
		2					
		3		P (A)			
		4		P (A)			
		5		O (21 (O))			
GMPV6	Volcano-Tectonics (Co-listed in TS)	1	P (A)				
		2	P ()				
		3	O (21 (O))				
		4	O (21 (O))				
		5	O (21 (O))				
GMPV7	Explosive activity at basaltic volcanoes	1			P (A)		
		2			P (A)		
		3			P ()		
		4			O (21 (O))		
		5			O (21 (O))		
GMPV8	Volcanic and non-volcanic Earth degassing	1				P (A)	
		2				P ()	
		3				O (21 (O))	
		4				O (21 (O))	
		5					
GMPV9	Magmatic differentiation: current ideas and future developments (including Robert Wilhelm Bunsen Medal Lecture)	1			O (21 (O))		
		2			O (21 (O))		
		3			O (21 (O))		
		4			P (A)		
		5			P (A)		
GMPV 10	Precipitation and Dissolution of Carbonates	1					O (21 (O))
		2					
		3					P (A)
		4					P (A)
		5					P ()
GMPV 11	CO ₂ Geological Sequestration: bio-mechano-geochemical processes from the pore-scale to the reservoir-scale	1					
		2					O (21 (O))
		3					
		4					
		5					P (A)
GMPV 12	The mantle perspective: compositional and rheological constraints on lithosphere evolution	1					
		2					
		3				P (A)	
		4				P (A)	
		5				O (21 (O))	
GMPV 13	Upper mantle dynamics and Quaternary climate in cratonic areas	1					
		2					
		3					
		4					
		5					

Session	Title	TB	MO	TU	WE	TH	FR
GMPV14	Behavior of substance at extreme conditions in nature and laboratory	1					P (A)
		2					P ()
		3					O (21 (O))
		4					
		5					
GMPV15	Metamorphic and magmatic consequences of ultra-deep subduction	1					P (A)
		2					P (A)
		3					P ()
		4					O (21 (O))
		5					O (21 (O))
TS8.4/ GD06.1/ GMPV16	Structure and Dynamics of Mid-Ocean Ridges (co-organized by GD & GMPV)	1					
		2		O (3)			
		3	P (XY)	O (3)			
		4	P (XY)				
		5					
TS8.5/ GD06.2/ GMPV17	Tracing hydrothermal circulation at Mid-ocean ridges using geochemistry, geophysics and modelling	1					
		2					
		3	P (XY)	O (3)			
		4	P ()	O (3)			
		5					
GMPV18	The Role of Accessory Minerals in Metamorphic and Igneous Processes	1		O (20 (N))			
		2		O (20 (N))			
		3		P (A)			
		4		P (A)			
		5		P ()			
GMPV19	Subduction vs intraplate lithospheric mantle: agents and processes	1	O (21 (O))				
		2	O (21 (O))				
		3	P (A)				
		4	P (A)				
		5	P (A)				
GMPV20/ BG5.10	Mineral properties and behaviour: the European Mineral Sciences Initiative (EuroMinSci) open session (including the EMU Research Excellence Medal Lecture) (co-organized by BG) (co-listed in CR, NP, SSP)	1		P (A)			
		2		P ()			
		3		O (20 (N))			
		4		O (20 (N))			
		5					
NH5.01	Volcanic Hazards: pre-eruptive warnings, quantification of hazards and mitigation of risk (co-listed in GMPV)	1					O (16 (L))
		2					O (16 (L))
		3					P (XY)
		4					
		5					
GD01	Geodynamics and Geochemistry of the Early Earth (co-listed in TS & GMPV)	1				P (A)	
		2				P ()	
		3					
		4			O (23)		
		5			O (23)		
GD09	Ice-Mass Fluctuations and the Dynamical Responses of the Solid Earth (co-organized by G)	1					
		2			O (23)		
		3				P (A)	
		4				P ()	
		5					
GD04	Geophysical and Geochemical Views of the Lithosphere - Asthenosphere Interaction (co-sponsored by International Lithosphere Programme Task Force III, co-listed in SM & GMPV)	1			O (23)		
		2					
		3			P (A)		
		4			P (A)		
		5					
SSS1	Mineralogical and geochemical records of weathering and pedoplasation: from spatial to temporal scales (co-listed in GMPV)	1			O (33)		
		2					
		3					
		4					
		5			P (A)		
GI1	Open session on Geoscience Instrumentation (co-listed in GMPV, G, HS, MPRG, NH, OS & SM)	1					
		2					
		3	O (2)				
		4	O (2)				
		5	O (2)	P (XY)			
GI9	Down hole Instrumentation: Technology and Applications (co-listed in GM, GMPV, PS, SSP & SSS)	1					
		2	O (2)				
		3					
		4					
		5		P (XY)			
GI10	Informatics: distributed information systems - technology and applications (co-listed in AS, CL, G, CR, GD, GM, GMPV, HS, MPRG, OS, PS, ST, SM, TS, SSP, SSS & NH)	1					O (29)
		2					O (29)
		3					O (29)
		4					P (XY)
		5					

Session	Title	TB	MO	TU	WE	TH	FR
NP3.07	Scale, Scaling, and nonlinearity in Solid Earth (co-listed in GMPV, NH, SSS & TS)	1					
		2					
		3			O (27)		
		4		P (XY)	O (27)		
		5					

PROGRAMME GROUP SCHEDULE

G – GEODESY

O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)

TB: 1: 8:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00

Session	Title	TB	MO	TU	WE	TH	FR
G1	The impact of technique errors on reference frame accuracy and stability	1		O (6 (K))			
		2		O (6 (K))			
		3		O (6 (K))			
		4					
		5		P (XY)			
G3	GRACE Science Applications	1			O (6 (K))		
		2			O (6 (K))		
		3			O (6 (K))		
		4					
		5			P (XY)		
G4/ GD17	What constraints do earth rotation, shape, and gravity measurements place on the dynamical processes of the solid earth? (co-organized by GD)	1					O (6 (K))
		2					O (6 (K))
		3					
		4					
		5				P (XY)	
G5	Monitoring of the troposphere and ionosphere by space geodetic techniques	1				O (6 (K))	
		2				O (6 (K))	
		3					
		4					
		5				P (XY)	
G6	GNSS new capabilities for geosciences	1					
		2	P (XY)				
		3	O (6 (K))				
		4	O (6 (K))				
		5	O (6 (K))				
G7/ GD15	From depth to surface: Surface motion and deformation forced by crust-mantle processes (co-organized by GD) (co-listed in NH)	1					
		2					
		3					
		4		O (6 (K))			
		5		P (XY)			
G8/ NH 11.02	Advances in GPS and InSAR techniques for geodynamic modelling and analysis of natural hazard (co-organized by G) (co-listed in GD)	1					
		2				P (XY)	
		3				O (6 (K))	
		4				O (6 (K))	
		5				O (6 (K))	
G9	Current state of ocean tide modelling	1					
		2					
		3					
		4			O (6 (K))		
		5			P (XY)		
G10	Geodetic observations for the International Polar Year (co-listed in CR)	1					
		2					
		3					
		4					
		5				P (XY)	
G11	Geodetic and Geodynamic Programmes of the CEI (Central European Initiative)	1	O (29)				
		2	O (29)				
		3					
		4					
		5	P (XY)				
G12	Open Session on Geodesy and Geodynamics	1					
		2					
		3					
		4					
		5		P (XY)			
GD09	Ice-Mass Fluctuations and the Dynamical Responses of the Solid Earth (co-organized by G)	1					
		2			O (23)		
		3				P (A)	
		4				P (I)	
		5					
GD08	Modelling and Monitoring the Deformation and State of Stress of the Lithosphere (co-sponsored by the International Lithosphere Program Task Force VII, co-listed in SM & G)	1	O (23)	P (A)			
		2	O (23)	P (A)			
		3	O (23)				
		4	O (23)				
		5					

Session	Title	TB	MO	TU	WE	TH	FR
GD13	Geodynamics and Kinematics of Southeast Asia (co-listed in G)	1					
		2					
		3					
		4					
		5					
GD18/ G2	Ice-Mass Fluctuations and the Dynamical Responses of the Solid Earth (co-organized by G)	1					
		2			O (23)		
		3				P (A)	
		4				P (I)	
		5					
GD16	GPS and SAR Interferometry for Geodynamic Modelling and Monitoring of Natural Hazards (co-listed in G, GM & NH)	1					
		2					
		3					
		4					
		5					
GD11	Kinematics and Geodynamics of the Central and Western Mediterranean (co-listed in TS, G & NH)	1					
		2		O (23)			
		3	P (A)				
		4	P (A)				
		5					
GI5	Space Instrumentation (co-listed in PS, ST, AS, G & OS)	1				O (2)	
		2				O (2)	P (XY)
		3					
		4					
		5					
GI1	Open session on Geoscience Instrumentation (co-listed in GMPV, G, HS, MPRG, NH, OS & SM)	1					
		2					
		3	O (2)				
		4	O (2)				
		5	O (2)	P (XY)			
GI10	Informatics: distributed information systems - technology and applications (co-listed in AS, CL, G, CR, GD, GM, GMPV, HS, MPRG, OS, PS, ST, SM, TS, SSP, SSS & NH)	1					O (29)
		2					O (29)
		3					O (29)
		4					P (XY)
		5					
CR120	Observations of glaciers and ice sheets from space (co-listed in G & CL)	1					
		2				O (4 (H))	
		3					
		4					
		5				P (A)	
HS4	Water storage, level and discharge from remote sensing and geodesy (co-listed in G & GI)	1					
		2					
		3					
		4	O (31)	P (A)			
		5					

PROGRAMME GROUP SCHEDULE

GD – GEODYNAMICS

O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)

TB: 1: 8:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00

Session	Title	TB	MO	TU	WE	TH	FR
GD01	Geodynamics and Geochemistry of the Early Earth (co-listed in TS & GMPV)	1				P (A)	
		2				P (I)	
		3					
		4			O (23)		
		5			O (23)		
GD02	Core, CMB and Deep Mantle (co-listed in MPRG & SM)	1					
		2					
		3					
		4					
		5					
GD03	The Earth's Mantle - Geodynamical and Geochemical Models for the Structure and Composition	1		P (A)			
		2		P (I)			
		3		O (23)			
		4		O (23)			
		5		O (23)			
GD04	Geophysical and Geochemical Views of the Lithosphere - Asthenosphere Interaction (co-sponsored by International Lithosphere Programme Task Force III, co-listed in SM & GMPV)	1			O (23)		
		2					
		3			P (A)		
		4			P (A)		
		5					
GD05	The Origins of Melting Anomalies	1					O (23)
		2					O (23)
		3				P (A)	O (23)
		4				P (A)	
		5					
TS8.4/ GD06.1/ GMPV 16	Structure and Dynamics of Mid-Ocean Ridges (co-organized by GD & GMPV)	1					
		2		O (3)			
		3	P (XY)	O (3)			
		4	P (XY)				
		5					
TS8.5/ GD06.2/ GMPV 17	Tracing hydrothermal circulation at Mid-ocean ridges using geochemistry, geophysics and modelling	1					
		2					
		3	P (XY)	O (3)			
		4	P (I)	O (3)			
		5					
GD07	Dynamics and Thermal Structure of Subduction Zones	1				P (A)	
		2				P (I)	
		3			O (23)		
		4					
		5					
GD08	Modelling and Monitoring the Deformation and State of Stress of the Lithosphere (co-sponsored by the International Lithosphere Program Task Force VII, co-listed in SM & G)	1	O (23)	P (A)			
		2	O (23)	P (A)			
		3	O (23)				
		4	O (23)				
		5					
GD09	Ice-Mass Fluctuations and the Dynamical Responses of the Solid Earth (co-organized by G)	1					
		2			O (23)		
		3				P (A)	
		4				P (I)	
		5					
GD10	The link of deep and shallow lithospheric processes in sedimentary basins-ILP Task Force Sedimentary Basins	1		O (23)			
		2					
		3		P (A)			
		4		P (I)			
		5					
GD11	Kinematics and Geodynamics of the Central and Western Mediterranean (co-listed in TS, G & NH)	1					
		2		O (23)			
		3	P (A)				
		4	P (A)				
		5					
TS10.5/ GD12/ SM19	Geodynamics, kinematics and crustal tectonics of the African/Arabian/Eurasian collision zone in the eastern Mediterranean/northern Arabian region (co-organized by GD & SM)	1					
		2					
		3			P (XY)	O (5 (I))	
		4			P (XY)	O (5 (I))	
		5				O (5 (I))	

Session	Title	TB	MO	TU	WE	TH	FR
GD13	Geodynamics and Kinematics of Southeast Asia (co-listed in G)	1					
		2					
		3					
		4					
		5					
CL16/ GD14	East African geodynamics, climate and evolution (co-organized with GD) (co-listed in TS & SSP)	1					
		2					
		3			O (14)		
		4			O (14)		
		5			P (XY)		
G7/ GD15	From depth to surface: Surface motion and deformation forced by crust-mantle processes (co-organized by GD) (co-listed in NH)	1					
		2					
		3					
		4		O (6 (K))			
		5		P (XY)			
GD16	GPS and SAR Interferometry for Geodynamic Modelling and Monitoring of Natural Hazards (co-listed in G, GM & NH)	1					
		2					
		3					
		4					
		5					
G4/ GD17	What constraints do earth rotation, shape, and gravity measurements place on the dynamical processes of the solid earth? (co-organized by GD)	1					O (6 (K))
		2					O (6 (K))
		3					
		4					
		5				P (XY)	
GD18/ G2	Ice-Mass Fluctuations and the Dynamical Responses of the Solid Earth (co-organized by G)	1					
		2			O (23)		
		3				P (A)	
		4				P (I)	
		5					
GD19	Potential Fields in Geodynamics and Geostatics	1				P (A)	
		2				P (I)	
		3				O (23)	
		4				O (23)	
		5					
GD20	Cretaceous-Tertiary Plate Kinematics, Continental Breakup and Sea-Floor Spreading History of the Northern North Atlantic and Arctic Ocean	1				O (23)	P (A)
		2				O (23)	P (I)
		3					
		4					
		5					
G8/ NH11.02	Advances in GPS and InSAR techniques for geodynamic modelling and analysis of natural hazard (co-organized by G) (co-listed in GD)	1					
		2				P (XY)	
		3				O (6 (K))	
		4				O (6 (K))	
		5				O (6 (K))	
GM11	Mechanisms of coupling and feedback between tectonics, climate and surface processes (co-listed in GD & CL)	1		O (17 (M))			
		2		O (17 (M))			
		3		O (17 (M))			
		4		O (17 (M))			
		5		P (XY)			
GI10	Informatics: distributed information systems - technology and applications (co-listed in AS, CL, G, CR, GD, GM, GMPV, HS, MPRG, OS, PS, ST, SM, TS, SSP, SSS & NH)	1					O (29)
		2					O (29)
		3					O (29)
		4					P (XY)
		5					
GM12	Dynamics of landscape transience (co-listed in GD)	1	O (17 (M))				
		2	O (17 (M))				
		3					
		4					
		5	P (XY)				
SSP3	Dynamics of Sedimentary Basins - Evolution, Salt- and Fluid Dynamic (co-listed in GD & TS)	1					
		2					O (32)
		3					O (32)
		4					
		5				P (A)	
MPRG01	Time variations in the geomagnetic field (co-listed in GD)	1					
		2				P (A)	
		3					
		4				O (34)	
		5					
MPRG04	One hundred years after Brunhes: geomagnetic reversal and palaeointensity behaviour (co-listed in GD and NP)	1			P (A)		
		2			P (A)		
		3			O (34)		
		4			O (34)		
		5			O (34)		

Session	Title	TB	MO	TU	WE	TH	FR
TS1.1	The strengths and challenges of analogue and numerical models (co-listed in GD)	1					
		2					
		3		O (5 (I))	P (XY)		
		4		O (5 (I))			
		5					

PROGRAMME GROUP SCHEDULE

GM – GEOMORPHOLOGY

O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)

TB: 1: 8:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00

Session	Title	TB	MO	TU	WE	TH	FR
GM1	Linking process and pattern in glaciated landscapes (co-listed in CR)	1					
		2					
		3					
		4					
		5					
GM2	Aeolian Processes and Landforms (co-listed in CL)	1					
		2					
		3					
		4			O (17 (M))		
		5			P (XY)		
GM3	Seafloor Expression of Tectonic & Geomorphic Processes (co-listed in OS, SSP & TS)	1			O (17 (M))		
		2					
		3					
		4					
		5			P (XY)		
GM4	Coastal geomorphology	1					
		2			O (17 (M))		
		3					
		4					
		5			P (XY)		
GM5	Bedrock Channel Morphology and Dynamics (co-listed in HS)	1					
		2					
		3					
		4					
		5					
GM6	Large Rivers - how does our small river theory scale upwards? (co-listed in HS)	1					
		2					
		3					
		4					
		5					
GM7	Surface and Subsurface Karst Geomorphology	1					
		2		O (7)			
		3					
		4					
		5		P (XY)			
GM8	High Mountain Geomorphology	1		O (7)			
		2					
		3					
		4					
		5	P (XY)				
GM9	Monitoring and modelling in periglacial and glacial geomorphology (co-listed in CR & CL)	1					
		2					
		3				O (17 (M))	
		4				O (17 (M))	
		5				P (XY)	
GM11	Mechanisms of coupling and feedback between tectonics, climate and surface processes (co-listed in GD & CL)	1		O (17 (M))			
		2		O (17 (M))			
		3		O (17 (M))			
		4		O (17 (M))			
		5		P (XY)			
GM12	Dynamics of landscape transience (co-listed in GD)	1	O (17 (M))				
		2	O (17 (M))				
		3					
		4					
		5	P (XY)				
GM13	From form to process: using topographic and geologic data to assess the role of geomorphic events across different time scales	1					
		2					
		3					
		4					
		5					
GM14	Natural hazards, extreme events, and mountain topography (co-listed in NH)	1					
		2					
		3					
		4					
		5	P (XY)				

Session	Title	TB	MO	TU	WE	TH	FR
GM15	Deep Alpine Valleys: recording the topographic, climatic and tectonic evolution of mountain belts (co-listed in CL)	1				O (17 (M))	
		2				O (17 (M))	
		3					
		4					
		5				P (XY)	
GM16	Cold regions geomorphology: linking high- and mid-latitudes (co-listed in CL & CR)	1					
		2					
		3					
		4					
		5					
GM17	Quaternary Landscape Evolution and Paleo-Geoecology (co-listed in CL)	1					
		2				O (7)	
		3					
		4					
		5				P (XY)	
GM18	The Role of Vegetation in Geomorphological Connectivity and Land Degradation	1			O (7)		
		2			O (7)		
		3					
		4					
		5			P (XY)		
GM19	Quantifying and modelling human and climate controlled sediment dynamics (co-listed in CL)	1					
		2					
		3				O (7)	
		4				O (7)	
		5				P (XY)	
CR170/ GM1	Subglacial landforms: observations and modelling (co-organised in GM)	1			O (26)		
		2			O (26)		
		3					
		4					
		5			P (A)		
GM20	Earth surface processes and carbon cycling (co-listed in CL & IG)	1					
		2					
		3					
		4					
		5					
GM21	New applications of terrestrial cosmogenic nuclides in Earth surface science (co-listed in IG)	1					
		2					
		3	O (17 (M))				
		4	O (17 (M))				
		5	P (XY)				
GM22	Reconciling tempo in large-scale geomorphology	1					
		2					
		3					
		4					
		5					
GM23	Landscape dynamics: insights from experimental modeling of erosion and sedimentation processes	1					
		2					
		3					
		4					
		5					
GM24	GEOMATICS applications in GEOMORPHOLOGY: new technologies for the improvement of an old" science"	1				O (17 (M))	
		2				O (17 (M))	
		3					
		4					
		5				P (XY)	
GM25	Geomorphology Headlines	1					
		2					
		3					
		4					
		5					
GM26	Planetary Geomorphology (co-listed in PS)	1					
		2					
		3			O (17 (M))		
		4					
		5			P (XY)		
HS28	Catchment structure and connectivity (co-listed in GM, BG & SSS)	1					
		2					P (A)
		3				O (31)	
		4				O (31)	
		5					
NH3.01	Documentation and monitoring of landslides and debris flows for mathematical modelling and design of mitigation measures (co-listed in GM)	1	O (18)				
		2	O (18)				
		3					
		4					
		5	P (XY)				

Session	Title	TB	MO	TU	WE	TH	FR
NH3.04	Remote sensing and geophysical techniques for investigating unstable slopes (co-listed in GM & GI)	1		O (27)			
		2		O (27)			
		3					
		4					
		5			P (XY)		
NH3.05	Landslides, ground-failures and mass movements induced by earthquakes and volcanic activity (co-listed in GM)	1					
		2					
		3			O (18)		
		4			O (18)		
		5			P (XY)		
NH3.07	Mechanics of Mass Flows (co-listed in GM)	1					
		2					
		3		O (27)			
		4					
		5			P (XY)		
NH8.01/ NP4.04	Extreme Events: Causes and Consequences (E2-C2) (co-organized by NH & NP) (co-listed in GM)	1	O (16 (L))				
		2	O (16 (L))				
		3	P (XY)				
		4					
		5					
NH3.09	Slope movements in weathered materials: recognition, analysis, and hazard assessment (co-listed in GM)	1		O (18)			
		2		O (18)			
		3					
		4					
		5		P (XY)			
NH3.10	Estimating landslide hazards and risk (co-listed in GM)	1					O (18)
		2					O (18)
		3					P (XY)
		4					
		5					
NH8.03	Natural and anthropogenic hazards in karst areas (co-listed in GM & HS)	1					
		2	P (XY)				
		3	O (16 (L))				
		4	O (16 (L))				
		5	O (16 (L))				
SSS13	Soil erosion on agricultural land (co-listed in GM)	1		O (33)			
		2		O (33)			
		3		O (33)			
		4		O (33)			
		5		P (A)			
SSS14	Improving spatial predictions of soil erosion (co-listed in HS & GM)	1					
		2					
		3			O (33)		
		4					
		5			P (A)		
SSS15	Soil erosion assessment and integrated approaches for remediation (co-listed in HS & GM)	1					
		2					
		3					
		4			O (33)		
		5			P (A)		
GI9	Down hole Instrumentation: Technology and Applications (co-listed in GM, GMPV, PS, SSP & SSS)	1					
		2	O (2)				
		3					
		4					
		5		P (XY)			
GI10	Informatics: distributed information systems - technology and applications (co-listed in AS, CL, G, CR, GD, GM, GMPV, HS, MPRG, OS, PS, ST, SM, TS, SSP, SSS & NH)	1					O (29)
		2					O (29)
		3					O (29)
		4					P (XY)
		5					
CR20	Open session on permafrost (co-listed in CL, GM & NH)	1					
		2		O (29)			
		3	P (A)				
		4					
		5					
GD16	GPS and SAR Interferometry for Geodynamic Modelling and Monitoring of Natural Hazards (co-listed in G, GM & NH)	1					
		2					
		3					
		4					
		5					
SSS2	Soil as a record of the past	1	O (33)				
		2					
		3					
		4					
		5	P (A)				

Session	Title	TB	MO	TU	WE	TH	FR
CL34	Aeolian dust as a player and recorder of environmental change (co-listed in GM & SSP, co-sponsored by IAS)	1					
		2					
		3				O (14)	
		4					
		5				P (XY)	
HS20	Technological potential for assessing soil erosion and sediment transport in ungauged river basins	1	O (31)				
		2					
		3					
		4	P (A)				
		5					
HS21	Harmonisation and standardisation of transboundary sediment activities	1					
		2					
		3					
		4					
		5					
HS24	Sediment tracing and risk assessment for sediment management	1					
		2	O (31)				
		3					
		4	P (A)				
		5					
HS29	Objective and process-based catchment classification as a tool for predictions in ungauged basins	1				O (31)	
		2				O (31)	
		3				P (A)	
		4					
		5					
HS48	Connectivity: conditions for the transfer of water, sediment and organisms on hillslopes and in channelways (co-listed in GM)	1					
		2					
		3					
		4					
		5					
HS49	Dryland hydrology	1					
		2					
		3					
		4	O (30 (C))	P (A)			
		5					
CL32/ CL9	Applied Quaternary Geochronology (co-listed in GM) / High-resolution radiocarbon chronologies - methods and applications	1					O (14)
		2					P (XY)
		3					P (XY)
		4					
		5					
HS23	Hydrological, chemical and biological processes in rivers and riparian zones (co-listed in BG & GM)	1					
		2			O (30 (C))		
		3			O (30 (C))	P (A)	
		4			O (30 (C))		
		5					

PROGRAMME GROUP SCHEDULE

GI – GEOSCIENCES INSTRUMENTATION AND DATA SYSTEMS

O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)

TB: 1: 8:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00

Session	Title	TB	MO	TU	WE	TH	FR
GI1	Open session on Geoscience Instrumentation (co-listed in GMPV, G, HS, MPRG, NH, OS & SM)	1					
		2					
		3	O (2)				
		4	O (2)				
		5	O (2)	P (XY)			
GI2	Atmosphere, Ocean and Meteorological Instruments (co-listed in AS, CL, OS, PS & ST)	1		O (2)			
		2		O (2)			
		3					
		4					
		5			P (XY)		
GI3	Instrumentation for Ocean Observatories and Early Warning Systems (co-listed in OS, NH & SM)	1					
		2					
		3		O (2)			
		4					
		5			P (XY)		
GI4	Instrumentation related to polar regions and the IPY (co-listed in AS, BG, CR & OS)	1					
		2					
		3					
		4		O (2)			
		5		O (2)	P (XY)		
GI5	Space Instrumentation (co-listed in PS, ST, AS, G & OS)	1				O (2)	
		2				O (2)	P (XY)
		3					
		4					
		5					
GI6/ PS1.3	Planetary Imaging Systems - Design, Implementation, and Results (co-organized by PS, co-listed in ST)	1					
		2					P (XY)
		3					
		4				O (2)	
		5				O (2)	
GI7/ PS1.2	Planetary Landers and Instrumentation (co-organized by PS)	1					
		2					P (XY)
		3				O (2)	
		4					
		5					
GI8	Robotics	1					
		2					
		3					
		4					
		5					
GI9	Down hole Instrumentation: Technology and Applications (co-listed in GM, GMPV, PS, SSP & SSS)	1					
		2	O (2)				
		3					
		4					
		5		P (XY)			
GI10	Informatics: distributed information systems - technology and applications (co-listed in AS, CL, G, CR, GD, GM, GMPV, HS, MPRG, OS, PS, ST, SM, TS, SSP, SSS & NH)	1					O (29)
		2					O (29)
		3					O (29)
		4					P (XY)
		5					
SSP11/ GI11	Building A Global Geosciences Cyberinfrastructure (co-organized by GI)	1					
		2					
		3					
		4					
		5					
CL38/ GI12	Earth System Modelling: Strategies and Software (co-organized by GI, co-listed in AS, HS & OS)	1					
		2					
		3					
		4		O (14)			
		5		P (XY)			
IG2/ GI14 - IG3/ GI15	Instrumentation for Stable and Radiogenic Isotopes (co-organized by GI)	1				O (34)	
		2				O (34)	
		3					
		4				P (A)	
		5					

Session	Title	TB	MO	TU	WE	TH	FR
HS2	Remote sensing retrieval techniques and data assimilation	1	O (28 (B))				
		2	O (28 (B))				
		3					
		4	P (A)				
		5					
HS3	Space observations and field experiments	1					
		2					
		3	O (31)				
		4	P (A)				
		5					
HS4	Water storage, level and discharge from remote sensing and geodesy (co-listed in G & GI)	1					
		2					
		3					
		4	O (31)	P (A)			
		5					
HS6	Operational applications of remote sensing in water resources management and hydrology	1					
		2					
		3					
		4		O (30 (C))	P (A)		
		5					
HS40	Novel techniques for measuring rainfall micro- and macro-structure (co-listed in AS & NH)	1					
		2					O (31)
		3					
		4					P (A)
		5					
HS46	Hydroinformatics: computational intelligence and technological developments in water science applications (co-listed in NH & GI)	1		O (30 (C))			
		2		O (30 (C))			
		3		O (30 (C))			
		4		P (A)			
		5					
OS4	Operational Oceanography: Skill Assessment and Error Analysis (co-listed GI, NP)	1				O (3)	
		2				O (3)	
		3					
		4					
		5	P (XY)				
NH12	Interoperability and data access requirements for disaster reduction and emergency management (co-listed in GI)	1					
		2					
		3					
		4					
		5		O (18)			
NH3.04	Remote sensing and geophysical techniques for investigating unstable slopes (co-listed in GM & GI)	1		O (27)			
		2		O (27)			
		3					
		4					
		5			P (XY)		
SC1	High-Resolution Inductively Coupled Plasma Mass Spectrometry (ICP-MS) presented by Isaac B. Brenner (Israel) and Meike Hamester (Germany) (co-listed in IG & GI)	1					O (7)
		2					O (7)
		3					O (7)
		4					O (7)
		5					

PROGRAMME GROUP SCHEDULE

HS – HYDROLOGICAL SCIENCES

O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)

TB: 1: 8:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00

Session	Title	TB	MO	TU	WE	TH	FR
HS1	Strategies to community building in hydrology (invited papers only) (co-listed in US)	1		O (28 (B))			
		2		O (28 (B))			
		3		O (28 (B))			
		4					
		5					
HS2	Remote sensing retrieval techniques and data assimilation	1	O (28 (B))				
		2	O (28 (B))				
		3					
		4	P (A)				
		5					
HS3	Space observations and field experiments	1					
		2					
		3	O (31)				
		4	P (A)				
		5					
HS4	Water storage, level and discharge from remote sensing and geodesy (co-listed in G & GI)	1					
		2					
		3					
		4	O (31)	P (A)			
		5					
HS6	Operational applications of remote sensing in water resources management and hydrology	1					
		2					
		3					
		4		O (30 (C))	P (A)		
		5					
HS7	Subsurface flow, solute transport, and energy processes: concepts, modelling, and observations	1					
		2					P (A)
		3				O (28 (B))	
		4				O (28 (B))	
		5					
HS8	Subsurface assessment and characterisation of flow, transport, and fate using physical, chemical, and isotopic tools (co-listed in IG)	1	O (30 (C))				
		2	O (30 (C))				
		3	O (30 (C))				
		4	P (A)				
		5					
HS9	Hydrogeophysics in subsurface hydrology	1				O (28 (B))	
		2				O (28 (B))	
		3					
		4				P (A)	
		5					
HS10	Urban impacts on soils and groundwater (co-listed in SSS)	1					
		2			O (31)		
		3					
		4			P (A)		
		5					
HS11	Fissured and karstified aquifers (co-listed in IG)	1					
		2					
		3		O (31)			
		4		P (A)			
		5					
HS12	Geothermal energy and brine transport	1					
		2					
		3					
		4			O (31)	P (A)	
		5					
HS13	Application of optical technologies in surface and groundwater systems	1					
		2					
		3					
		4					
		5					
HS14	Groundwater stochastic hydrology	1		O (31)			
		2					
		3					
		4		P (A)			
		5					

Session	Title	TB	MO	TU	WE	TH	FR
HS15	Colloids, microorganisms and coupled hydrological, biological and chemical processes in the unsaturated zone	1					
		2					
		3			O (31)		
		4			P (A)		
		5					
HS16	Coupled hydrological, biological and chemical processes in the unsaturated zone	1					
		2					
		3					
		4					
		5					
HS17	Unsaturated zone flow and transport processes: from science to soil and water management	1					
		2		O (31)			
		3					
		4		P (A)			
		5					
HS18	Persistent organic pollutants in soils: sources, sinks, and processing	1			O (31)		
		2					
		3					
		4			P (A)		
		5					
HS19	Monitoring and modelling for soil and ecohydrological processes across landscape elements	1					
		2					P (A)
		3					O (28 (B))
		4					O (28 (B))
		5					
HS20	Technological potential for assessing soil erosion and sediment transport in ungauged river basins	1	O (31)				
		2					
		3					
		4	P (A)				
		5					
HS21	Harmonisation and standardisation of transboundary sediment activities	1					
		2					
		3					
		4					
		5					
HS22	River and stream temperature: dynamics, processes, models and implications	1					
		2					
		3					
		4		O (31)	P (A)		
		5					
HS23	Hydrological, chemical and biological processes in rivers and riparian zones (co-listed in BG & GM)	1					
		2			O (30 (C))		
		3			O (30 (C))	P (A)	
		4			O (30 (C))		
		5					
HS24	Sediment tracing and risk assessment for sediment management	1					
		2	O (31)				
		3					
		4	P (A)				
		5					
HS25	Lakes and inland seas under anthropogenic impact and climate change (co-listed in CL & ERE)	1				O (30 (C))	
		2				O (30 (C))	
		3				P (A)	
		4					
		5					
HS27	Open session on catchment modelling and process analysis	1			O (28 (B))		
		2			O (28 (B))		
		3			O (28 (B))		
		4			P (A)		
		5					
HS28	Catchment structure and connectivity (co-listed in GM, BG & SSS)	1					
		2					P (A)
		3				O (31)	
		4				O (31)	
		5					
HS29	Objective and process-based catchment classification as a tool for predictions in ungauged basins	1				O (31)	
		2				O (31)	
		3				P (A)	
		4					
		5					
HS30	Experimental river basins	1					O (30 (C))
		2					O (30 (C))
		3					P (A)
		4					
		5					

Session	Title	TB	MO	TU	WE	TH	FR
HS31	Coupled modelling and observation of terrestrial and atmospheric water fluxes across multiple spatial and temporal scales	1					
		2					
		3					
		4					
		5					
HS32	Climate-soil and vegetation interactions in ecological-hydrological processes (co-listed in AS, CL, NP & SSS)	1					O (28 (B))
		2					O (28 (B))
		3					P (A)
		4					
		5					
HS33	Monitoring network design and new instrumentation in hydrology	1					
		2					
		3	O (28 (B))				
		4	O (28 (B))	P (A)			
		5					
HS34	Calibration, data assimilation, and uncertainty estimation of spatially distributed and integrated catchment models	1					
		2					P (A)
		3					O (30 (C))
		4					O (30 (C))
		5					
HS37	Sustainable catchment management: assessing water quality on the catchment scale	1					
		2					
		3					
		4		O (28 (B))	P (A)		
		5					
HS36	Hydrological extremes: controls, spatial & temporal variability and regional patterns	1					
		2					P (A)
		3				O (30 (C))	
		4				O (30 (C))	
		5					
HS38	Anthropogenic impacts on transitional environments (co-listed in CL & ERE)	1					
		2					
		3					
		4					
		5					
HS39	Stochastic-dynamic modelling of precipitation (co-listed in NP & AS)	1					O (31)
		2					
		3					
		4					P (A)
		5					
HS40	Novel techniques for measuring rainfall micro- and macro-structure (co-listed in AS & NH)	1					
		2					O (31)
		3					
		4					P (A)
		5					
HS41	Statistical concepts in understanding and modelling hydro-climatic change (co-listed in NP, CL and AS)	1					
		2					
		3					O (31)
		4					P (A)
		5					
HS42	Integrated water resources assessment, with special focus on developing countries	1			O (30 (C))		
		2					
		3				P (A)	
		4					
		5					
HS43	Instruments for integrated and transboundary water resources management	1					
		2					
		3				P (A)	
		4			O (28 (B))		
		5					
HS44	Middle East water – towards equitable and sustainable management	1					
		2					
		3					
		4					
		5					
HS45	Modelling and observation of hydrological and biological processes in West Africa (co-listed in BG)	1					
		2					P (A)
		3					
		4					O (31)
		5					
HS46	Hydroinformatics: computational intelligence and technological developments in water science applications (co-listed in NH & GI)	1		O (30 (C))			
		2		O (30 (C))			
		3		O (30 (C))			
		4		P (A)			
		5					

Session	Title	TB	MO	TU	WE	TH	FR
HS48	Connectivity: conditions for the transfer of water, sediment and organisms on hillslopes and in channelways (co-listed in GM)	1					
		2					
		3					
		4					
		5					
HS49	Dryland hydrology	1					
		2					
		3					
		4	O (30 (C))	P (A)			
		5					
NH2.04	Risk assessments of complex flood situations (co-listed in HS)	1					
		2					P (XY)
		3					
		4				O (18)	
		5					
NH2.05	Integrated Natural Hazard Protection (floods and mass movement): Structural and nonstructural measures – state-of-the-art (co-listed in HS)	1				O (18)	
		2				O (18)	P (XY)
		3					
		4					
		5					
NH8.03	Natural and anthropogenic hazards in karst areas (co-listed in GM & HS)	1					
		2	P (XY)				
		3	O (16 (L))				
		4	O (16 (L))				
		5	O (16 (L))				
SSS11	Hydropedology: A synergistic tool to shape EU guidelines for water and soil (co-listed in HS)	1					
		2					
		3					
		4				O (33)	
		5				P (A)	
SSS10	3D Visualization and Quantification of Soil Pore Geometries (co-listed in HS)	1					
		2	O (33)				
		3					
		4					
		5	P (A)				
SSS12	Transport in preferential flow domains of the soil porous system: Measuring, interpretation, models, upscaling (co-listed in HS)	1					
		2					
		3	O (33)				
		4	O (33)				
		5	P (A)				
SSS14	Improving spatial predictions of soil erosion (co-listed in HS & GM)	1					
		2					
		3			O (33)		
		4					
		5			P (A)		
SSS15	Soil erosion assessment and integrated approaches for remediation (co-listed in HS & GM)	1					
		2					
		3					
		4			O (33)		
		5			P (A)		
GI1	Open session on Geoscience Instrumentation (co-listed in GMPV, G, HS, MPRG, NH, OS & SM)	1					
		2					
		3	O (2)				
		4	O (2)				
		5	O (2)	P (XY)			
GI10	Informatics: distributed information systems - technology and applications (co-listed in AS, CL, G, CR, GD, GM, GMPV, HS, MPRG, OS, PS, ST, SM, TS, SSP, SSS & NH)	1					O (29)
		2					O (29)
		3					O (29)
		4					P (XY)
		5					
GM6	Large Rivers - how does our small river theory scale upwards? (co-listed in HS)	1					
		2					
		3					
		4					
		5					
GM5	Bedrock Channel Morphology and Dynamics (co-listed in HS)	1					
		2					
		3					
		4					
		5					
CR90	Mountain Hydrology and Climatology: present state and future scenarios (co-listed in HS)	1					
		2					
		3					
		4		O (29)			
		5		P (A)			

Session	Title	TB	MO	TU	WE	TH	FR
CR100	Remote sensing of snow cover and sea ice (co-listed in HS)	1		O (29)			
		2					
		3					
		4					
		5		P (A)			
BG3.03	Fluvial networks and biogeochemistry (co-listed in HS)	1					
		2					
		3	P (BG)				
		4					
		5					
AS1.03	Observation, Prediction and Verification of Precipitation (General Session) (co-listed in HS)	1				O (10 (E1))	
		2				O (10 (E1))	
		3			P (XY)	O (10 (E1))	
		4			P (XY)	O (10 (E1))	
		5					
CL38/ GI12	Earth System Modelling: Strategies and Software (co-organized by GI, co-listed in AS, HS & OS)	1					
		2					
		3					
		4		O (14)			
		5		P (XY)			
CL19/ CL14	Climatic Extremes and their Impacts (co-listed in HS & ERE) / Mid-latitude cyclones: processes, variability, changes and impacts	1					O (13 (F1))
		2					O (13 (F1))
		3					O (13 (F1))
		4					P (XY)
		5					
CL22/ CL35	Land-atmosphere coupling in past, present and future climate (co-listed in AS, BG & HS) / Subsurface temperature signals of climate change, processes involved, and importance to climate modeling	1					
		2					
		3		O (25)			
		4		O (25)			
		5		P (XY)			
NP5.05	Ensemble prediction in hydrology (HEPEX) (co-listed in HS & NH)	1					
		2					
		3			O (24)		
		4					
		5		P (XY)			
NH2.03	Uncertainty and non stationarity in flood risk predictions (co-listed in HS)	1					P (XY)
		2					
		3					
		4					
		5				O (18)	
NH2.02	Operational tools for flash-flood forecasting (co-listed in HS)	1					P (XY)
		2					
		3				O (18)	
		4					
		5					
NH2.01	Flood Hazards: Historical Documentation, Reconstruction, Perception and Modern Risk Management (co-listed in HS)	1					
		2					
		3					
		4					
		5					
NP6.07	Turbulence and dispersion in particle-laden geophysical flows: theory and models (co-listed in HS & SSP)	1					
		2					
		3					O (22)
		4				P (XY)	
		5					
NP3.08	Scales and scaling in surface and subsurface hydrology (co-listed in HS)	1					
		2					
		3					
		4		P (XY)	O (27)		
		5			O (27)		

PROGRAMME GROUP SCHEDULE

IG – ISOTOPES IN GEOSCIENCES: INSTRUMENTATION AND APPLICATIONS

O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)

TB: 1: 8:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00

Session	Title	TB	MO	TU	WE	TH	FR
IG1	Stable Isotopes in Geosciences - Open Session (include blocks of special interest)	1		O (34)			
		2		O (34)			
		3		O (34)			
		4					
		5		P (A)			
IG2/ GI14 - IG3/ GI15	Instrumentation for Stable and Radiogenic Isotopes (co-organized by GI)	1				O (34)	
		2				O (34)	
		3					
		4				P (A)	
		5					
SC1	High-Resolution Inductively Coupled Plasma Mass Spectrometry (ICP-MS) presented by Isaac B. Brenner (Israel) and Meike Hamester (Germany) (co-listed in IG & GI)	1					O (7)
		2					O (7)
		3					O (7)
		4					O (7)
		5					
SSP16/ CL45	Climate events recorded in speleothems (co- organized by CL) (co-listed in IG)	1					
		2					
		3	O (32)				
		4	O (32)				
		5	O (32)	P (A)			
BG5.02	ABC of biomarkers in biogeosciences: Abundance, Biosynthesis, and isotopic Composition (co-listed in IG & CL)	1					
		2					
		3					
		4					
		5					
BG5.03	Application of stable isotopes in biogeosciences (co-listed in IG)	1			O (19)		
		2			O (19)		
		3			P (BG)		
		4					
		5					
GM20	Earth surface processes and carbon cycling (co- listed in CL & IG)	1					
		2					
		3					
		4					
		5					
GM21	New applications of terrestrial cosmogenic nuclides in Earth surface science (co-listed in IG)	1					
		2					
		3	O (17 (M))				
		4	O (17 (M))				
		5	P (XY)				
HS8	Subsurface assessment and characterisation of flow, transport, and fate using physical, chemical, and isotopic tools (co-listed in IG)	1	O (30 (C))				
		2	O (30 (C))				
		3	O (30 (C))				
		4	P (A)				
		5					
HS11	Fissured and karstified aquifers (co-listed in IG)	1					
		2					
		3		O (31)			
		4		P (A)			
		5					
TS2.4	Absolute dating of the brittle deformation (co-listed in IG)	1					
		2					
		3	P (XY)				
		4	P (I)				
		5					
SSP12/ BG9	New proxies in sedimentary geochemistry (co- organized by BG, co-listed in IG & CL)	1					
		2				O (20 (N))	
		3				P (A)	
		4					
		5					

PROGRAMME GROUP SCHEDULE

MPRG – MAGNETISM, PALAEOMAGNETISM, ROCK PHYSICS AND GEOMATERIALS

O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)

TB: 1: 8:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00

Session	Title	TB	MO	TU	WE	TH	FR
MPRG 01	Time variations in the geomagnetic field (co-listed in GD)	1					
		2				P (A)	
		3					
		4				O (34)	
		5					
MPRG 02	Advances in paleointensity studies and techniques	1					
		2					
		3					
		4					
		5					
MPRG 03	Paleomagnetism in orogenic systems (co-listed in TS)	1	P (A)				
		2	P (I)				
		3	O (34)				
		4	O (34)				
		5					
MPRG 04	One hundred years after Brunhes: geomagnetic reversal and palaeointensity behaviour (co-listed in GD and NP)	1			P (A)		
		2			P (A)		
		3			O (34)		
		4			O (34)		
		5			O (34)		
MPRG 05	Paleomagnetism, Climate and Environmental magnetism (co-listed in CL and SSP)	1					
		2		P (A)			
		3					
		4		O (34)			
		5					
MPRG 07	Open session in rock magnetism and paleomagnetism	1					O (34)
		2					O (34)
		3			P (A)		O (34)
		4			P (A)		
		5					
MPRG 09	Integrated (magneto)stratigraphy and chronology of the Triassic; implications for the GPTS and paleoenvironmental reconstructions	1					
		2					
		3					
		4					
		5					
PS5.5/ MPRG 06	Planetary Magnetism (co-organized by MPRG)	1					
		2					
		3					
		4		P (XY)			
		5		O (11)			
MPRG 08	Magnetic field observation: where have we been and where are we going?	1				P (A)	
		2				P (I)	
		3				O (34)	
		4					
		5					
MPRG 15	The role of fluids in faults and fracture zones - mechanical aspects	1	O (34)				
		2					
		3	P (A)				
		4	P (A)				
		5					
MPRG 16	The role of fluids in faults and fracture zones - transport aspects	1					
		2	O (34)				
		3	P (A)				
		4	P (I)				
		5					
MPRG 13	Time-dependent deformation of rocks	1					
		2					
		3					
		4					
		5					
MPRG 14	The effect of temperature on rock properties	1			O (34)		
		2					
		3			P (A)		
		4			P (A)		
		5					

Session	Title	TB	MO	TU	WE	TH	FR
MPRG17	Strain localization in rocks (co-listed in TS)	1					
		2			O (34)		
		3			P (A)		
		4			P ()		
		5					
MPRG11	Self-Potential (SP) Measurements: Applications and Interpretations	1					
		2					
		3					
		4					
		5					
SM22/ MPRG18 /TS3.1	Physics and Mechanics of Earthquakes and Faulting (co-organized by MPRG & TS)	1				O (26)	
		2				O (26)	
		3					
		4					
		5				P (A)	
GD02	Core, CMB and Deep Mantle (co-listed in MPRG & SM)	1					
		2					
		3					
		4					
		5					
GI1	Open session on Geoscience Instrumentation (co-listed in GMPV, G, HS, MPRG, NH, OS & SM)	1					
		2					
		3	O (2)				
		4	O (2)				
		5	O (2)	P (XY)			
GI10	Informatics: distributed information systems - technology and applications (co-listed in AS, CL, G, CR, GD, GM, GMPV, HS, MPRG, OS, PS, ST, SM, TS, SSP, SSS & NH)	1					O (29)
		2					O (29)
		3					O (29)
		4					P (XY)
		5					
TS4.1	Deformation processes: microstructures, textures, rheology (co-listed in MPRG)	1	O (3)				
		2	O (3)				
		3	P (XY)				
		4	P ()				
		5					

PROGRAMME GROUP SCHEDULE

NH – NATURAL HAZARDS

O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)

TB: 1: 8:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00

Session	Title	TB	MO	TU	WE	TH	FR
NH1.01	Satellite Remote Sensing Applications in Hydrometeorology, Water Cycle, and Flood Forecasting (co-listed in AS)	1					
		2					
		3	O (27)				
		4	O (27)				
		5	P (XY)				
NH1.02	Advances in radar, satellite and hydrological modelling methods for flash flood and droughts forecasting (co-listed in AS)	1					
		2					
		3					
		4					
		5					
NH1.03	Diagnosis, modelling and forecasting of meteorological and hydrological hazards produced by extreme weather and climate change (co-listed in AS & CL)	1	O (27)				
		2	O (27)				
		3					
		4					
		5	P (XY)				
NH1.04	Precipitation Science (co-listed in AS) (including Sergey Soloviev Medal Lecture)	1		O (24)	O (24)		
		2		O (24)	O (24)		
		3		O (24)	P (XY)		
		4		O (24)			
		5		O (24)			
NH1.05	Propagation of uncertainty in advanced meteorological forecast systems (co-listed in AS)	1				O (24)	
		2				P (XY)	
		3					
		4			O (24)		
		5			O (24)		
NH1.06	Lightning (co-listed in AS)	1					
		2					
		3			O (7)		
		4			O (7)		
		5			P (XY)		
HS40	Novel techniques for measuring rainfall micro- and macro-structure (co-listed in AS & NH)	1					
		2					O (31)
		3					
		4					P (A)
		5					
NH2.01	Flood Hazards: Historical Documentation, Reconstruction, Perception and Modern Risk Management (co-listed in HS)	1					
		2					
		3					
		4					
		5					
NH2.02	Operational tools for flash-flood forecasting (co-listed in HS)	1					P (XY)
		2					
		3				O (18)	
		4					
		5					
NH2.03	Uncertainty and non stationarity in flood risk predictions (co-listed in HS)	1					P (XY)
		2					
		3					
		4					
		5				O (18)	
NH2.04	Risk assessments of complex flood situations (co-listed in HS)	1					
		2					P (XY)
		3					
		4				O (18)	
		5					
NH2.05	Integrated Natural Hazard Protection (floods and mass movement): Structural and nonstructural measures – state-of-the-art (co-listed in HS)	1				O (18)	
		2				O (18)	P (XY)
		3					
		4					
		5					
HS36	Hydrological extremes: controls, spatial & temporal variability and regional patterns	1					
		2					P (A)
		3				O (30 (C))	
		4				O (30 (C))	
		5					

Session	Title	TB	MO	TU	WE	TH	FR
NP5.05	Ensemble prediction in hydrology (HEPEX) (co-listed in HS & NH)	1					
		2					
		3			O (24)		
		4					
		5		P (XY)			
HS46	Hydroinformatics: computational intelligence and technological developments in water science applications (co-listed in NH & GI)	1		O (30 (C))			
		2		O (30 (C))			
		3		O (30 (C))			
		4		P (A)			
		5					
HS24	Sediment tracing and risk assessment for sediment management	1					
		2	O (31)				
		3					
		4	P (A)				
		5					
NH3.01	Documentation and monitoring of landslides and debris flows for mathematical modelling and design of mitigation measures (co-listed in GM)	1	O (18)				
		2	O (18)				
		3					
		4					
		5	P (XY)				
NH3.02	Landslides and erosion monitoring and characterization using high resolution DEM, LIDAR and other DEM techniques	1				O (27)	
		2				O (27)	
		3					
		4					
		5				P (XY)	
NH3.03	Multidisciplinary monitoring, characterization and early warning projects on large landslides	1					
		2					
		3	O (18)				
		4	O (18)				
		5	P (XY)				
NH3.04	Remote sensing and geophysical techniques for investigating unstable slopes (co-listed in GM & GI)	1		O (27)			
		2		O (27)			
		3					
		4					
		5			P (XY)		
NH3.05	Landslides, ground-failures and mass movements induced by earthquakes and volcanic activity (co-listed in GM)	1					
		2					
		3			O (18)		
		4			O (18)		
		5			P (XY)		
NH3.06	Rainfall induced landslides and debris flows	1			O (18)		
		2			O (18)		
		3					
		4					
		5			P (XY)		
NH3.07	Mechanics of Mass Flows (co-listed in GM)	1					
		2					
		3		O (27)			
		4					
		5			P (XY)		
NH3.08	Rock falls: Analysis, Simulation and Protection	1					
		2					
		3					
		4		O (27)			
		5		O (27)	P (XY)		
NH3.09	Slope movements in weathered materials: recognition, analysis, and hazard assessment (co-listed in GM)	1		O (18)			
		2		O (18)			
		3					
		4					
		5		P (XY)			
NH3.10	Estimating landslide hazards and risk (co-listed in GM)	1					O (18)
		2					O (18)
		3					P (XY)
		4					
		5					
NH3.13	Time and intensity prediction in landslide hazard assessment	1					
		2					
		3		O (18)			
		4		O (18)			
		5		P (XY)			
NH3.14	The role of vegetation in slope stability	1					
		2					
		3				O (27)	
		4				O (27)	
		5				P (XY)	

Session	Title	TB	MO	TU	WE	TH	FR
SSP6	Submarine Mass Movements and Their Consequences (co-listed in NH)	1					
		2			O (32)		
		3			O (32)		
		4					
		5			P (A)		
GM14	Natural hazards, extreme events, and mountain topography (co-listed in NH)	1					
		2					
		3					
		4					
		5	P (XY)				
NH4.01	Seismic hazard evaluation, precursory phenomena and reliability of prediction	1			O (16 (L))		
		2			O (16 (L))		
		3					
		4					
		5			P (XY)		
NH4.02	Electric, magnetic and electromagnetic phenomena related to earthquakes (co-listed in SM)	1					
		2					
		3				O (16 (L))	P (XY)
		4				O (16 (L))	
		5				O (16 (L))	
NH4.03	Deformation processes and accompanying mechanical and electromagnetic phenomena, for rocks and other materials, from the laboratory to the geophysical scale	1				O (16 (L))	
		2				O (16 (L))	
		3					P (XY)
		4					
		5					
TS3.3/ NH4.4	Earthquake Geology (co-organized by NH)	1	O (5 (I))	P (XY)			
		2	O (5 (I))	P (XY)			
		3					
		4					
		5					
GD11	Kinematics and Geodynamics of the Central and Western Mediterranean (co-listed in TS, G & NH)	1					
		2		O (23)			
		3	P (A)				
		4	P (A)				
		5					
NP4.05/ US8	Earthquake prediction: what can be done with the best science available? (co-organized by US) (co-listed in NH & SM)	1					
		2					
		3		P (XY)		O (4 (H))	
		4				O (4 (H))	
		5				O (4 (H))	
G7/ GD15	From depth to surface: Surface motion and deformation forced by crust-mantle processes (co-organized by GD) (co-listed in NH)	1					
		2					
		3					
		4		O (6 (K))			
		5		P (XY)			
NH5.01	Volcanic Hazards: pre-eruptive warnings, quantification of hazards and mitigation of risk (co-listed in GMPV)	1					O (16 (L))
		2					O (16 (L))
		3					P (XY)
		4					
		5					
NH6.01	Tsunamis (co-listed in OS)	1					O (24)
		2					O (24)
		3					O (24)
		4					O (24)
		5				P (XY)	
NH6.02	Extreme Sea Waves (co-listed in OS) (including Plinius Medal Lecture)	1					
		2					
		3				O (24)	
		4				O (24)	
		5				P (XY)	
NH6.03	Coastal geohazards	1					
		2					
		3					
		4				P (XY)	
		5					
GI3	Instrumentation for Ocean Observatories and Early Warning Systems (co-listed in OS, NH & SM)	1					
		2					
		3		O (2)			
		4					
		5			P (XY)		
NH7.01	Snow cover, snow avalanche formation and dynamics, risk assessment	1		O (16 (L))			
		2		O (16 (L))			
		3		P (XY)			
		4					
		5					

Session	Title	TB	MO	TU	WE	TH	FR
CR20	Open session on permafrost (co-listed in CL, GM & NH)	1					
		2		O (29)			
		3	P (A)				
		4					
		5					
CR30	Permafrost degradation: Geological, geophysical, biological, engineering and health implications (co-listed in NH)	1					
		2					
		3					
		4					
		5					
CR40	Climate change impacts on glaciers, permafrost and related hazards (co-listed in NH & CL)	1	O (6 (K))				
		2	O (6 (K))				
		3	P (A)				
		4					
		5					
NH8.01/ NP4.04	Extreme Events: Causes and Consequences (E2-C2) (co-organized by NH & NP) (co-listed in GM)	1	O (16 (L))				
		2	O (16 (L))				
		3	P (XY)				
		4					
		5					
NH8.02/ BG1.06	Heavy-metal contamination of water, air, soil, and foodcrops (co-organized by NH and BG) (co-listed in SSS)	1					
		2		P (XY)			
		3					
		4					
		5					
NH8.03	Natural and anthropogenic hazards in karst areas (co-listed in GM & HS)	1					
		2	P (XY)				
		3	O (16 (L))				
		4	O (16 (L))				
		5	O (16 (L))				
NH8.04/ BG1.04	Spatial and temporal patterns of wildfires: models, theory, and reality (co-organized by BG & NH)	1					
		2			P (XY)		
		3					
		4		O (16 (L))			
		5		O (16 (L))			
NH9.01	Vulnerability assessments and spatial/temporal variability of natural hazards risk	1					
		2					
		3					O (18)
		4					O (18)
		5				P (XY)	
NH9.03	Early warning systems and multidisciplinary approaches in natural hazards and risk assessments	1					
		2					
		3		O (16 (L))			
		4					
		5		P (XY)			
NH9.05	Economic aspects and societal decision making in hazards and risk management	1					O (27)
		2					O (27)
		3					
		4				P (XY)	
		5					
NH9.06	Natural Hazards' Impact on Urban Areas and Infrastructure (co-listed in SM)	1					
		2			P (XY)		
		3			O (16 (L))		
		4			O (16 (L))		
		5			O (16 (L))		
NH9.08	Spatial prediction modeling in natural hazards and risk	1					
		2					
		3					
		4					
		5					
NH10.01	Investigation of historical records on natural hazards	1					
		2					
		3					
		4					
		5					
NH10.02	Tree-ring reconstructions in natural hazards research	1					
		2					P (XY)
		3					O (16 (L))
		4					O (16 (L))
		5					
NH10.03	Geo-Databases and Information Systems for Natural Hazards and Risk Assessment	1					
		2				O (24)	
		3					
		4					
		5				P (XY)	

Session	Title	TB	MO	TU	WE	TH	FR
G8/ NH11.02	Advances in GPS and InSAR techniques for geodynamic modelling and analysis of natural hazard (co-organized by G) (co-listed in GD)	1					
		2				P (XY)	
		3				O (6 (K))	
		4				O (6 (K))	
		5				O (6 (K))	
NH11.03	Satellite Remote Sensing Applications for Urban Damage Detection	1					
		2					
		3					
		4	P (XY)				
		5	O (18)				
NH11.04	Modelling, computer-assisted simulations, and mapping of dangerous phenomena for hazard assessment	1	O (24)				
		2	O (24)				
		3	O (24)				
		4	O (24)				
		5	P (XY)				
GI10	Informatics: distributed information systems - technology and applications (co-listed in AS, CL, G, CR, GD, GM, GMPV, HS, MPRG, OS, PS, ST, SM, TS, SSP, SSS & NH)	1					O (29)
		2					O (29)
		3					O (29)
		4					P (XY)
		5					
GI1	Open session on Geoscience Instrumentation (co-listed in GMPV, G, HS, MPRG, NH, OS & SM)	1					
		2					
		3	O (2)				
		4	O (2)				
		5	O (2)	P (XY)			
GD16	GPS and SAR Interferometry for Geodynamic Modelling and Monitoring of Natural Hazards (co-listed in G, GM & NH)	1					
		2					
		3					
		4					
		5					
NH12	Interoperability and data access requirements for disaster reduction and emergency management (co-listed in GI)	1					
		2					
		3					
		4					
		5		O (18)			
NP3.07	Scale, Scaling, and nonlinearity in Solid Earth (co-listed in GMPV, NH, SSS & TS)	1					
		2					
		3			O (27)		
		4		P (XY)	O (27)		
		5					

PROGRAMME GROUP SCHEDULE

NP – NONLINEAR PROCESSES IN GEOSCIENCES

O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)

TB: 1: 8:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00

Session	Title	TB	MO	TU	WE	TH	FR
NP1.01/ US9	Frontiers in Nonlinear Processes in Geosciences (co-organized by US) (including Lewis Fry Richardson Medal Lecture)	1					
		2					
		3					
		4					
		5				O (4 (H))	
NP2.01	ENSO: dynamics, predictability and response to climate change (co-listed in CL & OS)	1					
		2					
		3	O (3)	P (XY)			
		4	O (3)				
		5					
NP2.02/ CR180	Nonlinear cryospheric dynamics (co-organized by NP and CR)	1					
		2					
		3					
		4				P (XY)	O (3)
		5					
NP2.03	Nonlinear low-frequency variability in atmosphere, ocean and the climate system (co-listed in CL & OS)	1					
		2					
		3		P (XY)			
		4					
		5	O (3)				
NP3.01	Scale, scaling and nonlinear variability in aquatic biogeosystems (co-listed in BG & OS)	1	O (22)				
		2					
		3					
		4		P (XY)			
		5					
NP3.02	Scale, Scaling, nonlinear variability and turbulent structures in oceans, atmosphere and the climate (co-listed in AS, BG, CL & OS)	1	O (22)				
		2	O (22)				
		3					
		4		P (XY)			
		5					
NP3.03	Scaling, subgrid models, downscaling and parameterization	1					
		2					
		3	O (22)				
		4		P (XY)			
		5					
NP3.04	Geophysical extremes: Scaling aspects and modern statistical approaches	1					
		2					
		3					
		4	O (22)	P (XY)			
		5					
NP3.05	Uncertainty, Random Dynamical Systems and Stochastic Modeling in Geophysics	1					
		2					
		3					
		4		P (XY)			
		5	O (22)				
NP3.06	Dynamics of Seismicity Patterns and Earthquake Triggering (co-listed in SM)	1			O (27)		
		2			O (27)		
		3					
		4		P (XY)			
		5					
NP3.07	Scale, Scaling, and nonlinearity in Solid Earth (co-listed in GMPV, NH, SSS & TS)	1					
		2					
		3			O (27)		
		4		P (XY)	O (27)		
		5					
NP3.08	Scales and scaling in surface and subsurface hydrology (co-listed in HS)	1					
		2					
		3					
		4		P (XY)	O (27)		
		5			O (27)		
NP4.01	Nonlinear time series analysis in the geosciences	1			O (22)		
		2			O (22)		
		3		P (XY)	O (22)		
		4					
		5					

Session	Title	TB	MO	TU	WE	TH	FR
NP4.02	Statistical analysis of paleoclimate time series (co-listed in CL)	1					
		2					
		3		P (XY)			
		4			O (22)		
		5			O (22)		
NP4.03	Simple dynamical models from data: a tool for parametrizations and diagnostics (co-listed in CL)	1					
		2					
		3		P (XY)			
		4			O (22)		
		5					
NH8.01/ NP4.04	Extreme Events: Causes and Consequences (E2-C2) (co-organized by NH & NP) (co-listed in GM)	1	O (16 (L))				
		2	O (16 (L))				
		3	P (XY)				
		4					
		5					
NP4.05/ US8	Earthquake prediction: what can be done with the best science available? (co-organized by US) (co-listed in NH & SM)	1					
		2					
		3		P (XY)		O (4 (H))	
		4				O (4 (H))	
		5				O (4 (H))	
NP5.01	Quantifying predictability	1				O (22)	
		2				O (22)	
		3					
		4					
		5		P (XY)			
NP5.02	Data assimilation in the presence of nonlinearities (co-listed in AS)	1					
		2				O (22)	
		3				O (22)	
		4				O (22)	
		5		P (XY)			
NP5.03	Model Error: Dynamics, correction and modelling	1					
		2					
		3					
		4					
		5					
NP5.04	Predictability of high impact weather (THORPEX),	1					
		2					
		3					
		4					
		5					
NP5.05	Ensemble prediction in hydrology (HEPEX) (co-listed in HS & NH)	1					
		2					
		3			O (24)		
		4					
		5		P (XY)			
NP6.01	Transport, Diffusion and Mixing in Geophysical flows	1		O (22)			
		2					
		3			P (XY)		
		4					
		5					
NP6.02	Nonlinear Waves, Instabilities and Wave-flow interactions (co-listed in OS)	1					
		2		O (22)			
		3			P (XY)		
		4					
		5					
NP6.03	Jets, Wakes and Vortices	1					
		2					
		3		O (22)	P (XY)		
		4					
		5					
NP6.04	Geophysical Laboratory and Field Experiments	1					
		2					
		3		P (XY)			
		4		O (22)			
		5					
NP6.05	Turbulence in the Atmosphere and Ocean (co-listed in AS & OS)	1					
		2					
		3			P (XY)		
		4					
		5		O (22)			
NP6.06	Astrophysical Turbulence and Shocks, Plasmas and High Mach Number Flows (co-listed in PS)	1					
		2					
		3		O (22)			
		4				P (XY)	O (22)
		5					O (22)

Session	Title	TB	MO	TU	WE	TH	FR
NP6.07	Turbulence and dispersion in particle-laden geophysical flows: theory and models (co-listed in HS & SSP)	1					
		2					
		3					O (22)
		4				P (XY)	
		5					
NP6.08	Nonlinear geophysical fluid dynamics	1					O (22)
		2					O (22)
		3				P (XY)	
		4					
		5					
BG6.06/ NP6.09	Coupling biogeochemistry and ecology to fluid dynamics in aquatic ecosystems (co-organized by NP) (co-listed in OS)	1					
		2			O (20 (N))		
		3					
		4		P (BG)			
		5					
GM23	Landscape dynamics: insights from experimental modeling of erosion and sedimentation processes	1					
		2					
		3					
		4					
		5					
HS39	Stochastic-dynamic modelling of precipitation (co-listed in NP & AS)	1					O (31)
		2					
		3					
		4					P (A)
		5					
CL2	Monthly, seasonal and decadal forecasting (co-listed in NP & AS)	1					
		2	O (14)				
		3	O (14)				
		4					
		5	P (XY)				
OS16	Model development for large- and small-scale processes in the ocean (co-listed NP)	1					
		2				P (XY)	
		3				O (D)	
		4				O (D)	
		5				O (D)	
OS6	IMBER/SOLAS Special Session (co-listed in AS, BG, CL & NP)	1					
		2					
		3					O (D)
		4					O (D)
		5			P (XY)		
CL20	Probabilistic Forecasts of Climate and the Potential Impacts of Climate Change (co-listed in NP & ERE)	1					
		2					
		3					
		4	O (14)				
		5	P (XY)				
MPRG04	One hundred years after Brunhes: geomagnetic reversal and palaeointensity behaviour (co-listed in GD and NP)	1			P (A)		
		2			P (A)		
		3			O (34)		
		4			O (34)		
		5			O (34)		
HS14	Groundwater stochastic hydrology	1		O (31)			
		2					
		3					
		4		P (A)			
		5					
HS32	Climate-soil and vegetation interactions in ecological-hydrological processes (co-listed in AS, CL, NP & SSS)	1					O (28 (B))
		2					O (28 (B))
		3					P (A)
		4					
		5					
OS4	Operational Oceanography: Skill Assessment and Error Analysis (co-listed GI, NP)	1				O (3)	
		2				O (3)	
		3					
		4					
		5	P (XY)				
HS41	Statistical concepts in understanding and modelling hydro-climatic change (co-listed in NP, CL and AS)	1					
		2					
		3					O (31)
		4					P (A)
		5					
GMPV20/ BG5.10	Mineral properties and behaviour: the European Mineral Sciences Initiative (EuroMinSciI) open session (including the EMU Research Excellence Medal Lecture) (co-organized by BG) (co-listed in CR, NP, SSP)	1		P (A)			
		2		P (I)			
		3		O (20 (N))			
		4		O (20 (N))			
		5					

Session	Title	TB	MO	TU	WE	TH	FR
CL40	Climate Models Intercomparison: Dynamics and Physical Processes (co-listed in AS , OS & NP)	1	O (25)				
		2	O (25)				
		3					
		4					
		5	P (XY)				
CL21	Generality of Climate Models and their Components (co-listed in AS & NP)	1					
		2					
		3		O (14)			
		4					
		5		P (XY)			

PROGRAMME GROUP SCHEDULE

OS – OCEAN SCIENCES

O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)

TB: 1: 8:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00

Session	Title	TB	MO	TU	WE	TH	FR
OS1	Open session on large scale ocean circulation variability (co-listed CL, BG) (including Fridjof Nansen Medal Lecture)	1	O (D)				
		2	O (D)				
		3	O (D)				
		4	O (D)				
		5	P (XY)				
OS2	Open session on coastal and shelf oceanography (co-listed BG)	1			O (D)		
		2			O (D)		
		3			O (D)		
		4					
		5			P (XY)		
OS3	Ocean Tracers and Anthropogenic CO ₂ (co-listed in BG & CL)	1				O (D)	
		2				O (D)	
		3					
		4					
		5	P (XY)				
OS4	Operational Oceanography: Skill Assessment and Error Analysis (co-listed GI, NP)	1				O (3)	
		2				O (3)	
		3					
		4					
		5	P (XY)				
OS6	IMBER/SOLAS Special Session (co-listed in AS, BG, CL & NP)	1					
		2					
		3					O (D)
		4					O (D)
		5			P (XY)		
OS7	High latitude changes in ocean, ice and climate (co-listed in CR & CL)	1		O (D)			
		2		O (D)			
		3					
		4					
		5	P (XY)				
OS8	Variability in the Southern Ocean (co-listed AS,CL,BG,CR)	1					
		2					
		3		O (D)			
		4					
		5	P (XY)	O (5 (I))			
OS9	The Mediterranean Sea: a natural laboratory for marine interdisciplinary studies	1					
		2					
		3					
		4		O (D)			
		5	P (XY)	O (D)			
OS10	Ocean Remote Sensing (colisted GD, CL)	1					
		2					
		3					O (6 (K))
		4					O (6 (K))
		5			P (XY)		
OS11	Temporal variability of ocean temperature (heat content) and salinity (freshwater content). (co-listed CL)	1					
		2					
		3					
		4			O (D)		
		5			P (XY)		
OS12	Sea Level: Changes and their Causes (co-listed in CL & CR)	1					
		2					
		3					
		4					
		5					
OS13	Sensitivity of marine ecosystems and biogeochemical cycles to climate change (co-listed BG,NP, CL)	1					O (D)
		2					O (D)
		3					
		4					
		5			P (XY)		
OS14	Turbulent mixing in aquatic ecosystems - physical processes and ecosystem responses (co-listed in BG)	1					
		2					
		3	O (7)				
		4					
		5			P (XY)		

Session	Title	TB	MO	TU	WE	TH	FR
OS15	Fate of riverine matter in marine environments: pathways, feedbacks, characterization and quantification (co-listed in BG)	1				O (7)	
		2					
		3					
		4					
		5	P (XY)				
OS16	Model development for large- and small-scale processes in the ocean (co-listed NP)	1					
		2				P (XY)	
		3				O (D)	
		4				O (D)	
		5				O (D)	
OS17	Biodiversity Science in the deep sea: EuroDEEP open session (co-listed BG)	1					
		2					
		3					
		4					
		5					
BG2.01	DOM biogeochemistry and ecosystem function: from soils to oceans (co-listed in OS)	1		O (19)			
		2		O (19)			
		3		P (BG)			
		4					
		5					
BG6.03	Ecosystems of the deep sea-floor and their geological drivers (co-listed in SSP, OS & CL)	1					
		2		P (BG)			
		3					
		4				O (19)	
		5					
BG2.02	Biogeochemistry of coastal seas and continental shelves (co-listed in OS)	1					
		2		P (BG)			
		3		O (19)			
		4		O (19)			
		5					
CL40	Climate Models Intercomparison: Dynamics and Physical Processes (co-listed in AS , OS & NP)	1	O (25)				
		2	O (25)				
		3					
		4					
		5	P (XY)				
NP3.01	Scale, scaling and nonlinear variability in aquatic biogeosystems (co-listed in BG & OS)	1	O (22)				
		2					
		3					
		4		P (XY)			
		5					
NP3.02	Scale, Scaling, nonlinear variability and turbulent structures in oceans, atmosphere and the climate (co-listed in AS, BG, CL & OS)	1	O (22)				
		2	O (22)				
		3					
		4		P (XY)			
		5					
NH6.01	Tsunamis (co-listed in OS)	1					O (24)
		2					O (24)
		3					O (24)
		4					O (24)
		5				P (XY)	
NP2.03	Nonlinear low-frequency variability in atmosphere, ocean and the climate system (co-listed in CL & OS)	1					
		2					
		3		P (XY)			
		4					
		5	O (3)				
BG6.06/ NP6.09	Coupling biogeochemistry and ecology to fluid dynamics in aquatic ecosystems (co-organized by NP) (co-listed in OS)	1					
		2			O (20 (N))		
		3					
		4		P (BG)			
		5					
NP6.02	Nonlinear Waves, Instabilities and Wave-flow interactions (co-listed in OS)	1					
		2		O (22)			
		3			P (XY)		
		4					
		5					
NP6.05	Turbulence in the Atmosphere and Ocean (co-listed in AS & OS)	1					
		2					
		3			P (XY)		
		4					
		5		O (22)			
AS1.11	Gravity waves (co-listed in OS)	1					P (XY)
		2					
		3					O (1 (G))
		4					O (1 (G))
		5					

Session	Title	TB	MO	TU	WE	TH	FR
AS1.14	African Monsoon Multidisciplinary Analysis (AMMA) (co-listed in OS, BG, CL & SSS)	1					O (10 (E1))
		2					O (10 (E1))
		3				P (XY)	O (10 (E1))
		4				P ()	O (10 (E1))
		5					
NP2.01	ENSO: dynamics, predictability and response to climate change (co-listed in CL & OS)	1					
		2					
		3	O (3)	P (XY)			
		4	O (3)				
		5					
NH6.02	Extreme Sea Waves (co-listed in OS) (including Plinius Medal Lecture)	1					
		2					
		3				O (24)	
		4				O (24)	
		5				P (XY)	
GI5	Space Instrumentation (co-listed in PS, ST, AS, G & OS)	1				O (2)	
		2				O (2)	P (XY)
		3					
		4					
		5					
GI2	Atmosphere, Ocean and Meteorological Instruments (co-listed in AS, CL, OS, PS & ST)	1		O (2)			
		2		O (2)			
		3					
		4					
		5			P (XY)		
GI1	Open session on Geoscience Instrumentation (co-listed in GMPV, G, HS, MPRG, NH, OS & SM)	1					
		2					
		3	O (2)				
		4	O (2)				
		5	O (2)	P (XY)			
GI3	Instrumentation for Ocean Observatories and Early Warning Systems (co-listed in OS, NH & SM)	1					
		2					
		3		O (2)			
		4					
		5			P (XY)		
GI4	Instrumentation related to polar regions and the IPY (co-listed in AS, BG, CR & OS)	1					
		2					
		3					
		4		O (2)			
		5		O (2)	P (XY)		
GI10	Informatics: distributed information systems - technology and applications (co-listed in AS, CL, G, CR, GD, GM, GMPV, HS, MPRG, OS, PS, ST, SM, TS, SSP, SSS & NH)	1					O (29)
		2					O (29)
		3					O (29)
		4					P (XY)
		5					
GM3	Seafloor Expression of Tectonic & Geomorphic Processes (co-listed in OS, SSP & TS)	1			O (17 (M))		
		2					
		3					
		4					
		5			P (XY)		
CR130	Glaciology, climate, and oceanography of the Antarctic Peninsula and the sub-Antarctic (co-listed in CL & HS)	1					
		2					
		3					
		4			O (29)		
		5			P (A)		
CR135	Modelling sea ice and ice-ocean interactions (co-listed in OS)	1					
		2					
		3		O (7)			
		4		O (7)			
		5		P (A)			
CR132	Sea ice edge processes: atmosphere, ocean, ice interactions	1					
		2					
		3					
		4					
		5					
CL8	Climate and ocean dynamics from high-resolution marine archives (co-listed in OS)	1				O (14)	
		2					
		3					
		4					
		5				P (XY)	
CL10	Regional and Global Climate Impact of the Atlantic Ocean Variability (co-listed in OS)	1					
		2					
		3					
		4			O (20 (N))		
		5			P (XY)		

Session	Title	TB	MO	TU	WE	TH	FR
CL7	Antarctica and the Global Climate System (co-listed in AS, CR & OS)	1					
		2					
		3					
		4			O (13 (F1))		
		5			P (XY)		
CL38/ GI12	Earth System Modelling: Strategies and Software (co-organized by GI, co-listed in AS, HS & OS)	1					
		2					
		3					
		4		O (14)			
		5		P (XY)			
BG6.05	Biogeochemical interactions in chemosynthetic deep-sea ecosystems: methods, tools and strategies (co-listed in OS)	1					O (20 (N))
		2					P (BG)
		3					
		4					
		5					

PROGRAMME GROUP SCHEDULE

PS – PLANETARY AND SOLAR SYSTEM SCIENCES

O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)

TB: 1: 8:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00

Session	Title	TB	MO	TU	WE	TH	FR
PS1.0	Exploring the Solar System - Missions and Techniques	1				P (XY)	
		2				P (XY)	
		3					
		4			O (11)		
		5			O (11)		
GI7/ PS1.2	Planetary Landers and Instrumentation (co-organized by PS)	1					
		2					P (XY)
		3				O (2)	
		4					
		5					
GI6/ PS1.3	Planetary Imaging Systems - Design, Implementation, and Results (co-organized by PS, co-listed in ST)	1					
		2					P (XY)
		3					
		4				O (2)	
		5				O (2)	
PS1.4	Experimental Planetology - Space simulations in laboratory	1					
		2					
		3		P (XY)			
		4	O (7)				
		5	O (7)				
PS1.5	Societal Benefits of Space Exploration	1					
		2					
		3					
		4	P (XY)				
		5	O (8)				
GI5	Space Instrumentation (co-listed in PS, ST, AS, G & OS)	1				O (2)	
		2				O (2)	P (XY)
		3					
		4					
		5					
GI10	Informatics: distributed information systems - technology and applications (co-listed in AS, CL, G, CR, GD, GM, GMPV, HS, MPRG, OS, PS, ST, SM, TS, SSP, SSS & NH)	1					O (29)
		2					O (29)
		3					O (29)
		4					P (XY)
		5					
GI2	Atmosphere, Ocean and Meteorological Instruments (co-listed in AS, CL, OS, PS & ST)	1		O (2)			
		2		O (2)			
		3					
		4					
		5			P (XY)		
GI9	Down hole Instrumentation: Technology and Applications (co-listed in GM, GMPV, PS, SSP & SSS)	1					
		2	O (2)				
		3					
		4					
		5		P (XY)			
PS2.0	Open Session on Terrestrial Planets	1		P (XY)	O (11)		
		2			O (11)		
		3			O (11)		
		4					
		5					
PS2.1	Venus Express: one year in orbit	1					
		2		P (XY)			
		3		O (15 (F2))			
		4		O (15 (F2))			
		5		O (15 (F2))			
PS2.2	Recent Mars Science (dedicated to the memory of Prof. Tor Hagfors (1930-2007))	1	O (15 (F2))				
		2	O (15 (F2))	P (XY)			
		3	O (15 (F2))				
		4	O (15 (F2))				
		5	O (15 (F2))				
PS2.3	Atmospheres of terrestrial planets	1					
		2	P (XY)				
		3	O (8)				
		4	O (8)				
		5					

Session	Title	TB	MO	TU	WE	TH	FR
PS2.4	Lunar science and exploration	1					
		2					
		3					O (4 (H))
		4				P (XY)	O (4 (H))
		5					O (4 (H))
PS2.5	Spectroscopy and Radiative Transfer in Planetary Atmospheres	1	O (8)				
		2	O (8)				
		3	P (XY)				
		4					
		5					
PS3.0	Outer planets and satellites (including David Bates Medal Lecture)	1				O (15 (F2))	P (XY)
		2				O (15 (F2))	P (XY)
		3				O (15 (F2))	
		4			O (4 (H))		
		5			O (4 (H))		
PS3.1	Satellites and rings	1					P (XY)
		2					P ()
		3					
		4				O (15 (F2))	
		5				O (15 (F2))	
PS4	Small Bodies and Dust	1		O (8)			
		2	P (XY)	O (8)			
		3		O (8)			
		4					
		5					
PS5	Planetary Plasma Physics	1		O (11)			
		2	P (XY)	O (11)			
		3		O (11)			
		4		O (11)			
		5					
ST2/ PS5.2	Theory and simulations of solar system plasmas (co-organized by PS)	1					O (8)
		2					O (8)
		3					O (8)
		4	P (XY)				O (8)
		5					
PS5.3	Connections in the Solar System - Space Weather	1					
		2					
		3					
		4				P (XY)	
		5				O (8)	
PS5.5/ MPRG06	Planetary Magnetism (co-organized by MPRG)	1					
		2					
		3					
		4		P (XY)			
		5		O (11)			
PS6	Planetary, Solar and Heliospheric Radio Emissions	1					P (XY)
		2					
		3				O (8)	
		4				O (8)	
		5					
PS7.1	Extrasolar Planets and Planet Formation Session	1				O (8)	
		2				O (8)	
		3				P (XY)	
		4					
		5					
PS7.2	Atmospheric and water loss from early Mars and its implication for the origin of life	1					
		2					
		3					
		4				P (XY)	
		5					O (19)
BG7.01/ PS7.3/ PS1.1	Astrobiology, Mars and robotic exploration (co-organized by PS)	1					
		2					P (BG)
		3					O (19)
		4					O (19)
		5					
NP6.06	Astrophysical Turbulence and Shocks, Plasmas and High Mach Number Flows (co-listed in PS)	1					
		2					
		3		O (22)			
		4				P (XY)	O (22)
		5					O (22)
GM26	Planetary Geomorphology (co-listed in PS)	1					
		2					
		3			O (17 (M))		
		4					
		5			P (XY)		

PROGRAMME GROUP SCHEDULE

SM –SEISMOLOGY

O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)

TB: 1: 8:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00

Session	Title	TB	MO	TU	WE	TH	FR
SM1	Open session on seismology (including Beno Gutenberg Medal Lecture)	1			O (4 (H))		
		2			O (4 (H))		
		3					
		4					
		5			P (A)		
SM2	Controlled and natural source seismic investigations of crust and upper mantle	1					
		2		O (26)			
		3		O (26)			
		4		O (26)			
		5		P (A)			
SM3	Techniques of near-surface seismic and georadar imaging	1					
		2					
		3					
		4	O (26)				
		5	P (A)				
SM4	Computational wave propagation	1					
		2					
		3	O (26)				
		4					
		5	P (A)				
SM5	Seismic Imaging with Coda and Noise	1	O (26)				
		2					
		3	P (A)				
		4					
		5					
SM6	Towards a European Reference Model	1					
		2					
		3			O (4 (H))		
		4					
		5			P (A)		
SM7	Testing Current Approaches to Inversion for Earth Structure and Earthquake Sources: Resolution, Robustness and Reliability	1					
		2	O (26)				
		3					
		4					
		5	P (A)				
SM10	Precambrian lithosphere: insights from geophysics, geochemistry, and geodynamics	1		O (26)			
		2					
		3					
		4					
		5		P (A)			
SM11	Earthquake Dynamics: New insights in the rupture process and seismic radiation through theory, modeling and observations	1					
		2					
		3					O (26)
		4					
		5					P (A)
SM12	Earthquake ruptures, paleoseismology and seismic hazard models	1					
		2					
		3					
		4					O (26)
		5					P (A)
SM13	Source Rupture Processes and Crustal Deformation in the Aegean and Eastern Mediterranean Region	1					
		2		P (A)			
		3					
		4					
		5		O (6 (K))			
SM15	Groundshaking scenarios, ground motion models and site effects (Conveners Fabrice Cotton and Stefano Parolai)	1					O (26)
		2					O (26)
		3					
		4					
		5					P (A)
SM16	New approaches to seismological data mining and real time seismology	1					
		2					
		3	P (A)				
		4					
		5	O (26)				

Session	Title	TB	MO	TU	WE	TH	FR
SM17	Topography of the Earth and Planets: from the deep Earth and planetary interiors to the surface	1					
		2					
		3			P (A)		
		4			O (26)		
		5			O (26)		
SM18	Palaeoseismology studies in intraplate areas and implication for seismic hazard	1					
		2					
		3					
		4					
		5					
TS10.5/ GD12/ SM19	Geodynamics, kinematics and crustal tectonics of the African/Arabian/Eurasian collision zone in the eastern Mediterranean/northern Arabian region (co-organized by GD & SM)	1					
		2					
		3			P (XY)	O (5 (I))	
		4			P (XY)	O (5 (I))	
		5				O (5 (I))	
SM21	Research and Development in Nuclear Explosion Monitoring (co-listed in AS)	1					
		2					
		3				O (26)	
		4				O (26)	
		5				P (A)	
SM22/ MPRG18 /TS3.1	Physics and Mechanics of Earthquakes and Faulting (co-organized by MPRG & TS)	1				O (26)	
		2				O (26)	
		3					
		4					
		5				P (A)	
GD02	Core, CMB and Deep Mantle (co-listed in MPRG & SM)	1					
		2					
		3					
		4					
		5					
GD04	Geophysical and Geochemical Views of the Lithosphere - Asthenosphere Interaction (co-sponsored by International Lithosphere Programme Task Force III, co-listed in SM & GMPV)	1			O (23)		
		2					
		3			P (A)		
		4			P (A)		
		5					
GD08	Modelling and Monitoring the Deformation and State of Stress of the Lithosphere (co-sponsored by the International Lithosphere Program Task Force VII, co-listed in SM & G)	1	O (23)	P (A)			
		2	O (23)	P (A)			
		3	O (23)				
		4	O (23)				
		5					
GI1	Open session on Geoscience Instrumentation (co-listed in GMPV, G, HS, MPRG, NH, OS & SM)	1					
		2					
		3	O (2)				
		4	O (2)				
		5	O (2)	P (XY)			
GI3	Instrumentation for Ocean Observatories and Early Warning Systems (co-listed in OS, NH & SM)	1					
		2					
		3		O (2)			
		4					
		5			P (XY)		
GI10	Informatics: distributed information systems - technology and applications (co-listed in AS, CL, G, CR, GD, GM, GMPV, HS, MPRG, OS, PS, ST, SM, TS, SSP, SSS & NH)	1					O (29)
		2					O (29)
		3					O (29)
		4					P (XY)
		5					
NH4.02	Electric, magnetic and electromagnetic phenomena related to earthquakes (co-listed in SM)	1					
		2					
		3				O (16 (L))	P (XY)
		4				O (16 (L))	
		5				O (16 (L))	
NP3.06	Dynamics of Seismicity Patterns and Earthquake Triggering (co-listed in SM)	1			O (27)		
		2			O (27)		
		3					
		4		P (XY)			
		5					
NP4.05/ US8	Earthquake prediction: what can be done with the best science available? (co-organized by US) (co-listed in NH & SM)	1					
		2					
		3		P (XY)		O (4 (H))	
		4				O (4 (H))	
		5				O (4 (H))	
NH9.06	Natural Hazards' Impact on Urban Areas and Infrastructure (co-listed in SM)	1					
		2			P (XY)		
		3			O (16 (L))		
		4			O (16 (L))		
		5			O (16 (L))		

PROGRAMME GROUP SCHEDULE

SSS – SOIL SYSTEM SCIENCES

O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)

TB: 1: 8:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00

Session	Title	TB	MO	TU	WE	TH	FR
SSS1	Mineralogical and geochemical records of weathering and pedoplasation: from spatial to temporal scales (co-listed in GMPV)	1			O (33)		
		2					
		3					
		4					
		5			P (A)		
SSS2	Soil as a record of the past	1	O (33)				
		2					
		3					
		4					
		5	P (A)				
SSS3	Soil genesis, soil quality, biological indicators and soil functions, including education (co-listed in BG)	1				O (33)	
		2				O (33)	
		3					
		4					
		5				P (A)	
SSS4	Organic soils, processes, mechanisms and utilization (co-listed in BG)	1					O (33)
		2					
		3					
		4					
		5				P (A)	
SSS8	The mechanisms, especially diffusion, by which soil organic matter influences chemical fate: Chromium as a case study (co-listed in BG)	1					
		2					
		3				O (33)	
		4					
		5				P (A)	
SSS10	3D Visualization and Quantification of Soil Pore Geometries (co-listed in HS)	1					
		2	O (33)				
		3					
		4					
		5	P (A)				
SSS11	Hydropedology: A synergistic tool to shape EU guidelines for water and soil (co-listed in HS)	1					
		2					
		3					
		4				O (33)	
		5				P (A)	
SSS12	Transport in preferential flow domains of the soil porous system: Measuring, interpretation, models, upscaling (co-listed in HS)	1					
		2					
		3	O (33)				
		4	O (33)				
		5	P (A)				
SSS13	Soil erosion on agricultural land (co-listed in GM)	1		O (33)			
		2		O (33)			
		3		O (33)			
		4		O (33)			
		5		P (A)			
SSS14	Improving spatial predictions of soil erosion (co-listed in HS & GM)	1					
		2					
		3			O (33)		
		4					
		5			P (A)		
SSS15	Soil erosion assessment and integrated approaches for remediation (co-listed in HS & GM)	1					
		2					
		3					
		4			O (33)		
		5			P (A)		
SSS19	Soil remediation processes: New insights into the role of mineral surfaces and bioaccessibility of residues(co-listed in BG) (including Philippe Duchafour Medal Lecture)	1					
		2			O (33)		
		3					
		4					
		5			P (A)		
SSS22	Ants in the Soil System. A hydrological, chemical and biological approach (co-listed in BG)	1					
		2					O (33)
		3					P (A)
		4					
		5					

Session	Title	TB	MO	TU	WE	TH	FR
HS10	Urban impacts on soils and groundwater (co-listed in SSS)	1					
		2			O (31)		
		3					
		4			P (A)		
		5					
BG6.0/ SSS24	Geomicrobiology: mineralization, weathering and biofilms (co-organized by SSS)	1					
		2	P (BG)				
		3	O (19)				
		4	O (19)				
		5					
HS28	Catchment structure and connectivity (co-listed in GM, BG & SSS)	1					
		2					P (A)
		3				O (31)	
		4				O (31)	
		5					
GI10	Informatics: distributed information systems - technology and applications (co-listed in AS, CL, G, CR, GD, GM, GMPV, HS, MPRG, OS, PS, ST, SM, TS, SSP, SSS & NH)	1					O (29)
		2					O (29)
		3					O (29)
		4					P (XY)
		5					
GI9	Down hole Instrumentation: Technology and Applications (co-listed in GM, GMPV, PS, SSP & SSS)	1					
		2	O (2)				
		3					
		4					
		5		P (XY)			
HS8	Subsurface assessment and characterisation of flow, transport, and fate using physical, chemical, and isotopic tools (co-listed in IG)	1	O (30 (C))				
		2	O (30 (C))				
		3	O (30 (C))				
		4	P (A)				
		5					
HS9	Hydrogeophysics in subsurface hydrology	1				O (28 (B))	
		2				O (28 (B))	
		3					
		4				P (A)	
		5					
HS16	Coupled hydrological, biological and chemical processes in the unsaturated zone	1					
		2					
		3					
		4					
		5					
HS17	Unsaturated zone flow and transport processes: from science to soil and water management	1					
		2		O (31)			
		3					
		4		P (A)			
		5					
HS18	Persistent organic pollutants in soils: sources, sinks, and processing	1			O (31)		
		2					
		3					
		4			P (A)		
		5					
HS19	Monitoring and modelling for soil and ecohydrological processes across landscape elements	1					
		2					P (A)
		3					O (28 (B))
		4					O (28 (B))
		5					
HS20	Technological potential for assessing soil erosion and sediment transport in ungauged river basins	1	O (31)				
		2					
		3					
		4	P (A)				
		5					
HS24	Sediment tracing and risk assessment for sediment management	1					
		2	O (31)				
		3					
		4	P (A)				
		5					
NH8.02/ BG1.06	Heavy-metal contamination of water, air, soil, and foodcrops (co-organized by NH and BG) (co-listed in SSS)	1					
		2		P (XY)			
		3					
		4					
		5					
BG1.07	Electron transfer processes in soils, sediments, and aquifers: concepts and cases (co-listed in SSS)	1			O (20 (N))		
		2			P (BG)		
		3					
		4					
		5					

Session	Title	TB	MO	TU	WE	TH	FR
AS1.14	African Monsoon Multidisciplinary Analysis (AMMA) (co-listed in OS, BG, CL & SSS)	1					O (10 (E1))
		2					O (10 (E1))
		3				P (XY)	O (10 (E1))
		4				P ()	O (10 (E1))
		5					
HS32	Climate-soil and vegetation interactions in ecological-hydrological processes (co-listed in AS, CL, NP & SSS)	1					O (28 (B))
		2					O (28 (B))
		3					P (A)
		4					
		5					
HS49	Dryland hydrology	1					
		2					
		3					
		4	O (30 (C))	P (A)			
		5					
NP3.07	Scale, Scaling, and nonlinearity in Solid Earth (co-listed in GMPV, NH, SSS & TS)	1					
		2					
		3			O (27)		
		4		P (XY)	O (27)		
		5					

PROGRAMME GROUP SCHEDULE

ST – SOLAR-TERRESTRIAL SCIENCES

O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)

TB: 1: 8:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00

Session	Title	TB	MO	TU	WE	TH	FR
ST2/ PS5.2	Theory and simulations of solar system plasmas (co-organized by PS)	1					O (8)
		2					O (8)
		3					O (8)
		4	P (XY)				O (8)
		5					
ST3	Open session on the Sun and heliosphere	1		O (15 (F2))			
		2		O (15 (F2))			
		3			P (XY)		
		4					
		5					
ST4	Oscillations of the solar interior and atmosphere	1					O (11)
		2					
		3					
		4			P (XY)		
		5				O (7)	
ST5	The 3D heliosphere at solar minimum	1					O (15 (F2))
		2			P (XY)		O (15 (F2))
		3					O (15 (F2))
		4					O (15 (F2))
		5					
ST6	The time varying Sun	1					
		2					
		3				P (XY)	
		4			O (8)		
		5			O (8)		
ST7	Open session on the magnetosphere (including Hannes Alfvén Medal Lecture)	1			O (15 (F2))		
		2			O (15 (F2))		
		3	P (XY)		O (15 (F2))		
		4			O (15 (F2))		
		5			O (15 (F2))		
ST8	Coupling between regions and scales: the future is multipoint and multi-instrument	1					
		2				O (11)	
		3				O (11)	
		4	P (XY)			O (11)	
		5				O (11)	
ST9	Linear and nonlinear wave particle interactions in space plasmas	1					
		2		P (XY)			
		3	O (11)				
		4	O (11)				
		5	O (11)				
ST10	Coupling processes of radiation belts and plasmasphere	1					
		2	O (11)				
		3		P (XY)			
		4					
		5					
ST11	Sources and sinks of energy in the substorm cycle	1				O (11)	
		2					
		3					
		4		P (XY)			
		5					
ST12	Open session on the ionosphere and thermosphere including connections to regions above and below	1					
		2				P (XY)	O (11)
		3					O (11)
		4					O (11)
		5					
ST13	Solar, heliospheric and atmospheric coupling with near-Earth space	1					
		2					
		3					
		4		O (8)		P (XY)	
		5		O (8)			
ST14	Modelling and measurements of ionospheric parameters influencing radio systems	1			O (8)		
		2			O (8)		
		3			O (8)	P (XY)	
		4					
		5					

Session	Title	TB	MO	TU	WE	TH	FR
AS1.12/ ST15	Joint Session of the MLT and the CAWSES program (co-organized by ST)	1				O (12 (E2))	
		2				O (12 (E2))	
		3					
		4			O (12 (E2))	P (XY)	
		5					
GI5	Space Instrumentation (co-listed in PS, ST, AS, G & OS)	1				O (2)	
		2				O (2)	P (XY)
		3					
		4					
		5					
GI6/ PS1.3	Planetary Imaging Systems - Design, Implementation, and Results (co-organized by PS, co-listed in ST)	1					
		2					P (XY)
		3					
		4				O (2)	
		5				O (2)	
GI2	Atmosphere, Ocean and Meteorological Instruments (co-listed in AS, CL, OS, PS & ST)	1		O (2)			
		2		O (2)			
		3					
		4					
		5			P (XY)		
GI10	Informatics: distributed information systems - technology and applications (co-listed in AS, CL, G, CR, GD, GM, GMPV, HS, MPRG, OS, PS, ST, SM, TS, SSP, SSS & NH)	1					O (29)
		2					O (29)
		3					O (29)
		4					P (XY)
		5					
PS5.3	Connections in the Solar System - Space Weather	1					
		2					
		3					
		4				P (XY)	
		5				O (8)	

PROGRAMME GROUP SCHEDULE

SSP – STRATIGRAPHY, SEDIMENTOLOGY AND PALAEOONTOLOGY

O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)

TB: 1: 8:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00

Session	Title	TB	MO	TU	WE	TH	FR
SSP1	Open session on Sedimentology, Stratigraphy and Palaeontology - Posters only (co-listed in CL)	1					
		2					
		3					
		4					
		5	P (A)				
SSP2	Sedimentary cyclicity in basinal deposits: possible mechanisms (co-sponsored by IAS)	1					O (32)
		2					
		3					
		4					
		5			P (A)		
SSP3	Dynamics of Sedimentary Basins - Evolution, Salt- and Fluid Dynamic (co-listed in GD & TS)	1					
		2					O (32)
		3					O (32)
		4					
		5				P (A)	
SSP4	3-d modelling of sedimentary Systems	1		O (32)			
		2					
		3					
		4					
		5	P (A)				
SSP5/ BG8	Microbial Carbonates (co-sponsored by IAS and co-organized by BG)	1					P (A)
		2					
		3					
		4				O (32)	
		5					
SSP6	Submarine Mass Movements and Their Consequences (co-listed in NH)	1					
		2			O (32)		
		3			O (32)		
		4					
		5			P (A)		
SSP7	Cenozoic basin evolution and uplift of the Paratethys basin system (co-listed in TS)	1		P (A)			
		2					
		3					
		4			O (32)		
		5			O (32)		
SSP8/ CL43/ CL33	Closing the gap between geological data and numerical modelling / Oxygen-18 in climate models, observations and palaeo-data (co-organized by CL)	1			O (32)		
		2			O (32)		
		3					
		4					
		5			P (A)		
SSP9	Ordovician glaciations (co-listed in CR & CL)	1					
		2					
		3					
		4					
		5					
SSP10	Modelling subaqueous gravity flow processes and their deposits	1		O (32)			
		2					
		3					
		4					
		5	P (A)				
SSP11/ GI11	Building A Global Geosciences Cyberinfrastructure (co-organized by GI)	1					
		2					
		3					
		4					
		5					
SSP12/ BG9	New proxies in sedimentary geochemistry (co-organized by BG, co-listed in IG & CL)	1					
		2				O (20 (N))	
		3				P (A)	
		4					
		5					
SSP14/ CL44	Palaeoceanographic and palaeoclimatic change during the Palaeozoic, Mesozoic and Cenozoic: sedimentological, palaeontological, geochemical and modelling perspectives (co-organized by CL; co-sponsored by IAS)	1					
		2		O (32)			
		3		O (32)			
		4		O (32)			
		5		P (A)			

Session	Title	TB	MO	TU	WE	TH	FR
SSP15/ BG10	Environmental Micropaleontology: microfossils as proxies of recent and past environmental change (co-organized by BG)	1					
		2					
		3					
		4					
		5					
SSP16/ CL45	Climate events recorded in speleothems (co-organized by CL) (co-listed in IG)	1					
		2					
		3	O (32)				
		4	O (32)				
		5	O (32)	P (A)			
SSP17/ BG11/ CL47	Environmental perturbations during the Palaeozoic-Mesozoic interval: Organic geochemical and palynological proxies (co-organized by BG & CL)	1					
		2					
		3				O (32)	
		4					
		5				P (A)	
SSP18	Paleo-environmental indicators in carbonate systems (co-sponsored by IAS)	1					P (A)
		2					
		3					
		4					
		5				O (32)	
SSP20	Epeiric shelves - geochemistry, sedimentology, paleohydrology (co-sponsored by IAS)	1					
		2			P (A)		
		3					
		4					
		5		O (32)			
SSP21	Reconstructing the Cretaceous World: Integration of data from the Boreal, Tethys, deep sea and the continents (co-listed in CL)	1				O (32)	
		2				O (32)	
		3					
		4					
		5				P (A)	
SSP22	Understanding the linkages of geosphere and biosphere evolution during Cenozoic and Mesozoic times (co-sponsored by IAS)	1	O (32)				
		2	O (32)				
		3					
		4	P (A)				
		5					
SSP23	The Messinian desiccation of the Mediterranean Sea, its causes, phenomena and consequences (co-listed in CL & TS)	1					
		2			P (A)		
		3					
		4					
		5					
TS5.2/ SSP24	Processes of rifting, sediment transport, fluid flow and biogenic activity: EUROMARGINS open session (co-organized by SSP) (co-listed in BG & CL)	1			O (3)		P (XY)
		2			O (3)		
		3					
		4					
		5					
GI9	Down hole Instrumentation: Technology and Applications (co-listed in GM, GMPV, PS, SSP & SSS)	1					
		2	O (2)				
		3					
		4					
		5		P (XY)			
GI10	Informatics: distributed information systems - technology and applications (co-listed in AS, CL, G, CR, GD, GM, GMPV, HS, MPRG, OS, PS, ST, SM, TS, SSP, SSS & NH)	1					O (29)
		2					O (29)
		3					O (29)
		4					P (XY)
		5					
GM3	Seafloor Expression of Tectonic & Geomorphic Processes (co-listed in OS, SSP & TS)	1			O (17 (M))		
		2					
		3					
		4					
		5			P (XY)		
CL16/ GD14	East African geodynamics, climate and evolution (co-organized with GD) (co-listed in TS & SSP)	1					
		2					
		3			O (14)		
		4			O (14)		
		5			P (XY)		
CL1	Organic Carbon-Rich Marine Sediments Past, Present and Future : Oceans and Climate Feedbacks (co-listed in BG & SSP)	1			O (25)		
		2			O (25)		
		3					
		4					
		5			P (XY)		
SSS2	Soil as a record of the past	1	O (33)				
		2					
		3					
		4					
		5	P (A)				

Session	Title	TB	MO	TU	WE	TH	FR
CL34	Aeolian dust as a player and recorder of environmental change (co-listed in GM & SSP, co-sponsored by IAS)	1					
		2					
		3				O (14)	
		4					
		5				P (XY)	
MPRG05	Paleomagnetism, Climate and Environmental magnetism (co-listed in CL and SSP)	1					
		2		P (A)			
		3					
		4		O (34)			
		5					
HS11	Fissured and karstified aquifers (co-listed in IG)	1					
		2					
		3		O (31)			
		4		P (A)			
		5					
BG6.03	Ecosystems of the deep sea-floor and their geological drivers (co-listed in SSP, OS & CL)	1					
		2		P (BG)			
		3					
		4				O (19)	
		5					
BG5.01/ CL48	Calibration and validation of marine and terrestrial proxies: from empiricism towards a mechanistic understanding (co-organized by CL) (co-listed in SSP)	1				O (20 (N))	
		2					
		3					
		4				P (BG)	
		5					
GMPV20/ BG5.10	Mineral properties and behaviour: the European Mineral Sciences Initiative (EuroMinSci) open session (including the EMU Research Excellence Medal Lecture) (co-organized by BG) (co-listed in CR, NP, SSP)	1		P (A)			
		2		P (I)			
		3		O (20 (N))			
		4		O (20 (N))			
		5					
BG5.09/ CL49	Climate variability and the carbon cycle (past, present and future): The EuroCLIMATE Programme on multi-proxy reconstructions and coupled climate models at European and regional scales (co-organized by CL) (co-listed in CR & SSP) (including OYS Lecture)	1					
		2			P (BG)		
		3			O (25)		
		4			O (25)		
		5			O (25)		
NP6.07	Turbulence and dispersion in particle-laden geophysical flows: theory and models (co-listed in HS & SSP)	1					
		2					
		3					O (22)
		4				P (XY)	
		5					

PROGRAMME GROUP SCHEDULE

TS – TECTONICS AND STRUCTURAL GEOLOGY

O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)

TB: 1: 8:30–10:00 / 2: 10:30–12:00 / 3: 13:30–15:00 / 4: 15:30–17:00 / 5: 17:30–19:00

Session	Title	TB	MO	TU	WE	TH	FR
TS0	Open session	1					
		2					
		3	P (XY)				
		4					
		5					
TS1.1	The strengths and challenges of analogue and numerical models (co-listed in GD)	1					
		2					
		3		O (5 (I))	P (XY)		
		4		O (5 (I))			
		5					
TS1.2	Quantitative Structural Geology: Comparison of model results with natural examples	1		O (5 (I))			
		2		O (5 (I))			
		3		O (5 (I))	P (XY)		
		4			P (XY)		
		5					
TS2	Brittle deformation	1					
		2					
		3					
		4					
		5					
TS2.1	Faulting in carbonate rocks: new insights on deformation mechanisms, petrophysics, and fluid flow properties	1					
		2					
		3	P (XY)				
		4	P (XY)				
		5					
TS2.3	Controls on the 3D Orientation of Brittle Fractures: Integrating Theory with Field & Laboratory Measurements	1					
		2	O (7)				
		3	P (XY)				
		4	P ()				
		5					
TS2.4	Absolute dating of the brittle deformation (co-listed in IG)	1					
		2					
		3	P (XY)				
		4	P ()				
		5					
SM22/ MPRG 18/ TS3.1	Physics and Mechanics of Earthquakes and Faulting (co-organized by MPRG & TS)	1				O (26)	
		2				O (26)	
		3					
		4					
		5				P (A)	
TS3.2	Seismogenic coupling zones - state and processes	1		P (XY)			
		2		P (XY)			
		3	O (5 (I))				
		4	O (5 (I))				
		5					
TS3.3/ NH4.4	Earthquake Geology (co-organized by NH)	1	O (5 (I))	P (XY)			
		2	O (5 (I))	P (XY)			
		3					
		4					
		5					
TS4.1	Deformation processes: microstructures, textures, rheology (co-listed in MPRG)	1	O (3)				
		2	O (3)				
		3	P (XY)				
		4	P ()				
		5					
TS5	Extensional tectonics	1					
		2					
		3					
		4					
		5					
TS5.1	Failed vs. successful rifts: mechanisms for rift evolution	1					P (XY)
		2					P ()
		3			O (3)		
		4					
		5					

Session	Title	TB	MO	TU	WE	TH	FR
TS5.2/ SSP24	Processes of rifting, sediment transport, fluid flow and biogenic activity: EUROMARGINS open session (co-organized by SSP) (co-listed in BG & CL)	1			O (3)		P (XY)
		2			O (3)		
		3					
		4					
		5					
TS6	Strike-slip Tectonics	1					
		2					
		3					
		4					
		5					
TS6.1	Continental and oceanic wrench systems from top to bottom	1		O (3)			
		2					
		3	P (XY)				
		4	P ()				
		5					
TS7	Subduction Zones and Mountain Building Processes	1					
		2					
		3					
		4					
		5					
TS7.1	Orogen-basin coupling in intracontinental orogenic setting	1					
		2					
		3		P (XY)	O (5 (I))		
		4		P (XY)			
		5					
TS7.2	Arc-continent collision orogens (including Stephan Mueller Medal Lecture)	1					
		2					
		3		P (XY)			
		4		P (XY)	O (5 (I))		
		5			O (5 (I))		
TS7.3	Material transfer at convergent margins	1					
		2					
		3		P (XY)			
		4		P (XY)			
		5					
TS7.5	The tectonics and dynamics of subduction: from shallow to deep processes	1			O (5 (I))		
		2			O (5 (I))		
		3		P (XY)			
		4		P ()			
		5					
TS8.1	Tectonics and magmatism: Interactions from the grain- to the orogen-scale	1					P (XY)
		2					P ()
		3					
		4			O (3)		
		5					
TS8.2	Volcano-Tectonics	1					
		2					
		3					
		4					
		5					
TS8.3	Tectonics and magmatism during continental rifting and break-up	1					P (XY)
		2					P (XY)
		3				O (3)	
		4				O (3)	
		5					
TS8.4/ GD06.1/ GMPV16	Structure and Dynamics of Mid-Ocean Ridges (co-organized by GD & GMPV)	1					
		2		O (3)			
		3	P (XY)	O (3)			
		4	P (XY)				
		5					
TS8.5/ GD06.2/ GMPV17	Tracing hydrothermal circulation at Mid-ocean ridges using geochemistry, geophysics and modelling	1					
		2					
		3	P (XY)	O (3)			
		4	P ()	O (3)			
		5					
TS9.1	The influence of pre-existing structures upon the development and evolution of geological architectures	1					O (3)
		2					O (3)
		3				P (XY)	
		4				P (XY)	
		5					
TS10.1	Linking geodynamic processes in southern Africa: a System Earth approach	1	O (7)				
		2					
		3	P (XY)				
		4	P ()				
		5					

Session	Title	TB	MO	TU	WE	TH	FR
TS10.2	Tectonic evolution of Tethys in the Eastern Mediterranean Region	1				O (5 (I))	
		2				O (5 (I))	
		3			P (XY)		
		4			P (XY)		
		5					
TS10.3	Middle East Basins Evolution	1					
		2					
		3			P (XY)		O (5 (I))
		4			P (XY)		O (5 (I))
		5					
TS10.4	Alpine Geology: Information and inspiration from the best studied orogen of the world	1					O (5 (I))
		2					O (5 (I))
		3					P (XY)
		4					
		5					
TS10.5/ GD12/ SM19	Geodynamics, kinematics and crustal tectonics of the African/Arabian/Eurasian collision zone in the eastern Mediterranean/northern Arabian region (co-organized by GD & SM)	1					
		2					
		3			P (XY)	O (5 (I))	
		4			P (XY)	O (5 (I))	
		5				O (5 (I))	
TS10.6	Active Tectonics of the Circum-Adriatic Region	1					
		2					
		3			P (XY)		O (3)
		4			P ()		
		5					
GD11	Kinematics and Geodynamics of the Central and Western Mediterranean (co-listed in TS, G & NH)	1					
		2		O (23)			
		3	P (A)				
		4	P (A)				
		5					
GI10	Informatics: distributed information systems - technology and applications (co-listed in AS, CL, G, CR, GD, GM, GMPV, HS, MPRG, OS, PS, ST, SM, TS, SSP, SSS)	1					O (29)
		2					O (29)
		3					O (29)
		4					P (XY)
		5					
CL16/ GD14	East African geodynamics, climate and evolution (co-organized with GD) (co-listed in TS & SSP)	1					
		2					
		3			O (14)		
		4			O (14)		
		5			P (XY)		
GD01	Geodynamics and Geochemistry of the Early Earth (co-listed in TS & GMPV)	1				P (A)	
		2				P ()	
		3					
		4			O (23)		
		5			O (23)		
GMPV6	Volcano-Tectonics (Co-listed in TS)	1	P (A)				
		2	P ()				
		3	O (21 (O))				
		4	O (21 (O))				
		5	O (21 (O))				
SSP3	Dynamics of Sedimentary Basins - Evolution, Salt- and Fluid Dynamic (co-listed in GD & TS)	1					
		2					O (32)
		3					O (32)
		4					
		5				P (A)	
SSP7	Cenozoic basin evolution and uplift of the Paratethys basin system (co-listed in TS)	1		P (A)			
		2					
		3					
		4			O (32)		
		5			O (32)		
MPRG03	Paleomagnetism in orogenic systems (co-listed in TS)	1	P (A)				
		2	P ()				
		3	O (34)				
		4	O (34)				
		5					
MPRG17	Strain localization in rocks (co-listed in TS)	1					
		2			O (34)		
		3			P (A)		
		4			P ()		
		5					
GM3	Seafloor Expression of Tectonic & Geomorphic Processes (co-listed in OS, SSP & TS)	1			O (17 (M))		
		2					
		3					
		4					
		5			P (XY)		
NP3.07	Scale, Scaling, and nonlinearity in Solid Earth (co-listed in GMPV, NH, SSS & TS)	1					
		2					
		3			O (27)		
		4		P (XY)	O (27)		
		5					

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EUROPEAN
GEOSCIENCES
UNION



Copernicus
Publications

MEETING SCHEDULE

MONDAY

US: Union Symposia

The International Polar Year 2007-2008 (abstract submission by invitation only)

Lecture Room 20 (N) 08:30–12:00 p. 157

Prospective views for European Cooperation in Geosciences & Environmental Sciences: Contributions in a global context

Lecture Room 4 (H) 10:30–19:00 p. 157

Early Earth Evolution

Lecture Room 29 13:30–17:00 p. 158

ES: Educational Symposia

GIFT Workshop: Geosciences in the City

Lecture Room 9 (P) 08:30–17:00 p. 158

AS: Atmospheric Sciences

Open Session on the Lower, Middle, and Upper Atmosphere

Lecture Room 1 (G) 08:30–12:15 p. 158

Numerical Weather Prediction and Data Assimilation (General Session)

Lecture Room 12 (E2) 08:30–15:00 p. 160

Clouds, Aerosols and Radiation (General Session)

Lecture Room 10 (E1) 08:30–17:00 p. 162

Modelling, Data-Assimilation and Source-Sink Inversion for Operational Atmospheric Composition – Posters

Halls X/Y 10:30–12:00 p. 164

Open Session on the Lower, Middle, and Upper Atmosphere – Posters

Halls X/Y 13:30–17:00 p. 158

GIS in meteorology and climatology (co-listed in CL) – Posters

Halls X/Y 13:30–15:00 p. 163

Modelling, Data-Assimilation and Source-Sink Inversion for Operational Atmospheric Composition

Lecture Room 1 (G) 13:30–17:00 p. 163

Numerical Weather Prediction and Data Assimilation (General Session) – Posters

Halls X/Y 15:30–17:00 p. 161

GIS in meteorology and climatology (co-listed in CL)

Lecture Room 12 (E2) 15:30–17:00 p. 162

BG: Biogeosciences

Molecular Geomicrobiology: Linking geochemical processes to community structure, genomic and evolutionary biology (co-sponsored by ISME)

Lecture Room 19 08:30–12:00 p. 168

Natural and anthropogenic environmental change as evidenced in high-resolution continental archives (co-listed in CL) – Posters

Foyer BG 10:30–12:00 p. 165

Geomicrobiology: mineralization, weathering and biofilms (co-organized by SSS) – Posters

Foyer BG 10:30–12:00 p. 166

Fluvial networks and biogeochemistry (co-listed in HS) – Posters

Foyer BG 13:30–15:00 p. 164

Natural and anthropogenic environmental change as evidenced in high-resolution continental archives (co-listed in CL)

Lecture Room 20 (N) 13:30–17:00 p. 164

Geomicrobiology: mineralization, weathering and biofilms (co-organized by SSS)

Lecture Room 19 13:30–17:00 p. 166

Molecular Geomicrobiology: Linking geochemical processes to community structure, genomic and evolutionary biology (co-sponsored by ISME) – Posters

Foyer BG 13:30–15:00 p. 168

CL: Climate: Past, Present, Future

Millennial-scale variability / Solar forcing of climate

Lecture Room 13 (F1) 08:30–10:00 p. 175

Climate Models Intercomparison: Dynamics and Physical Processes (co-listed in AS, OS & NP)

Lecture Room 25 08:30–12:00 p. 176

Open Session on Climatology and Palaeoclimatology (including Milutin Milankovic Medal Lecture)

Lecture Room 13 (F1) 10:30–17:00 p. 169

Monthly, seasonal and decadal forecasting (co-listed in NP & AS)

Lecture Room 14 10:30–15:00 p. 171

Modelling the Climates of the Late Quaternary

Lecture Room 25 13:30–17:00 p. 173

Probabilistic Forecasts of Climate and the Potential Impacts of Climate Change (co-listed in NP & ERE)

Lecture Room 14 15:30–17:15 p. 173

Open Session on Climatology and Palaeoclimatology (including Milutin Milankovic Medal Lecture) – Posters

Halls X/Y 17:30–19:00 p. 170

Monthly, seasonal and decadal forecasting (co-listed in NP & AS) – Posters

Halls X/Y 17:30–19:00 p. 172

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Probabilistic Forecasts of Climate and the Potential Impacts of Climate Change (co-listed in NP & ERE) – Posters

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Modelling the Climates of the Late Quaternary – Posters

Halls X/Y 17:30–19:00 p. 174

Millennial-scale variability / Solar forcing of climate – Posters

Halls X/Y 17:30–19:00 p. 175

Climate Models Intercomparison: Dynamics and Physical Processes (co-listed in AS, OS & NP) – Posters

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CR: Cryospheric Sciences
Climate change impacts on glaciers, permafrost and related hazards (co-listed in NH & CL)

Lecture Room 6 (K) 08:30–12:15 p. 179

Open session on permafrost (co-listed in CL, GM & NH) – Posters

Hall A 13:30–15:00 p. 178

Climate change impacts on glaciers, permafrost and related hazards (co-listed in NH & CL) – Posters

Hall A 13:30–15:00 p. 179

Open session on cryospheric sciences (including Louis Agassiz Medal Lecture) – Posters

Hall A 15:30–17:00 p. 177

Open session on cryospheric sciences (including Louis Agassiz Medal Lecture)

Lecture Room 13 (F1) 17:30–20:00 p. 177

GMPV: Geochemistry, Mineralogy, Petrology & Volcanology
Volcano-Tectonics (Co-listed in TS) – Posters

Hall A 08:30–12:00 p. 182

Subduction vs intraplate lithospheric mantle: agents and processes

Lecture Room 21 (O) 08:30–12:00 p. 182

Phase changes, magma properties, and magmatic and eruptive processes – Posters

Hall A 13:30–19:00 p. 180

Volcano-Tectonics (Co-listed in TS)

Lecture Room 21 (O) 13:30–19:00 p. 181

Subduction vs intraplate lithospheric mantle: agents and processes – Posters

Hall A 13:30–19:00 p. 183

G: Geodesy
Geodetic and Geodynamic Programmes of the CEI (Central European Initiative)

Lecture Room 29 08:30–12:00 p. 185

GNSS new capabilities for geosciences – Posters

Halls X/Y 10:30–12:00 p. 184

GNSS new capabilities for geosciences

Lecture Room 6 (K) 13:30–19:00 p. 184

Geodetic and Geodynamic Programmes of the CEI (Central European Initiative) – Posters

Halls X/Y 17:30–19:00 p. 185

GD: Geodynamics
Modelling and Monitoring the Deformation and State of Stress of the Lithosphere (co-sponsored by the International Lithosphere Program Task Force VII, co-listed in SM & G)

Lecture Room 23 08:30–17:00 p. 186

Kinematics and Geodynamics of the Central and Western Mediterranean (co-listed in TS, G & NH) – Posters

Hall A 13:30–17:00 p. 187

GM: Geomorphology
Dynamics of landscape transience (co-listed in GD)

Lecture Room 17 (M) 08:30–12:00 p. 188

New applications of terrestrial cosmogenic nuclides in Earth surface science (co-listed in IG)

Lecture Room 17 (M) 13:30–17:00 p. 190

High Mountain Geomorphology – Posters

Halls X/Y 17:30–19:00 p. 188

Dynamics of landscape transience (co-listed in GD) – Posters

Halls X/Y 17:30–19:00 p. 189

Natural hazards, extreme events, and mountain topography (co-listed in NH) – Posters

Halls X/Y 17:30–19:00 p. 190

New applications of terrestrial cosmogenic nuclides in Earth surface science (co-listed in IG) – Posters

Halls X/Y 17:30–19:00 p. 191

GI: Geosciences Instrumentation and Data Systems
Down hole Instrumentation: Technology and Applications (co-listed in GM, GMPV, PS, SSP & SSS)

Lecture Room 2 10:30–12:00 p. 192

Open session on Geoscience Instrumentation (co-listed in GMPV, G, HS, MPRG, NH, OS & SM)

Lecture Room 2 13:30–19:00 p. 191

HS: Hydrological Sciences
Remote sensing retrieval techniques and data assimilation

Lecture Room 28 (B) 08:30–12:00 p. 192

Subsurface assessment and characterisation of flow, transport, and fate using physical, chemical, and isotopic tools (co-listed in IG)

Lecture Room 30 (C) 08:30–15:00 p. 195

Technological potential for assessing soil erosion and sediment transport in ungauged river basins

Lecture Room 31 08:30–10:00 p. 197

Sediment tracing and risk assessment for sediment management

Lecture Room 31	10:30–12:00	p. 198
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Space observations and field experiments

Lecture Room 31	13:30–15:00	p. 194
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Monitoring network design and new instrumentation in hydrology

Lecture Room 28 (B)	13:30–17:00	p. 199
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Remote sensing retrieval techniques and data assimilation – Posters

Hall A	15:30–17:00	p. 193
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Space observations and field experiments – Posters

Hall A	15:30–17:00	p. 194
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Water storage, level and discharge from remote sensing and geodesy (co-listed in G & GI)

Lecture Room 31	15:30–17:30	p. 195
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Subsurface assessment and characterisation of flow, transport, and fate using physical, chemical, and isotopic tools (co-listed in IG) – Posters

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Technological potential for assessing soil erosion and sediment transport in ungauged river basins – Posters

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Sediment tracing and risk assessment for sediment management – Posters

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Dryland hydrology

Lecture Room 30 (C)	15:30–17:00	p. 199
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MPRG: Magnetism, Palaeomagnetism, Rock Physics & Geomaterials**Paleomagnetism in orogenic systems (co-listed in TS) – Posters**

Hall A	08:30–12:00	p. 200
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The role of fluids in faults and fracture zones - mechanical aspects

Lecture Room 34	08:30–10:00	p. 201
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The role of fluids in faults and fracture zones - transport aspects

Lecture Room 34	10:30–12:00	p. 201
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Paleomagnetism in orogenic systems (co-listed in TS)

Lecture Room 34	13:30–17:00	p. 200
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The role of fluids in faults and fracture zones - mechanical aspects – Posters

Hall A	13:30–17:00	p. 201
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The role of fluids in faults and fracture zones - transport aspects – Posters

Hall A	13:30–17:00	p. 202
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NH: Natural Hazards**Diagnosis, modelling and forecasting of meteorological and hydrological hazards produced by extreme weather and climate change (co-listed in AS & CL)**

Lecture Room 27	08:30–12:00	p. 203
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Documentation and monitoring of landslides and debris flows for mathematical modelling and design of mitigation measures (co-listed in GM)

Lecture Room 18	08:30–12:00	p. 205
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Extreme Events: Causes and Consequences (E2-C2) (co-organized by NH & NP) (co-listed in GM)

Lecture Room 16 (L)	08:30–12:00	p. 207
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Modelling, computer-assisted simulations, and mapping of dangerous phenomena for hazard assessment

Lecture Room 24	08:30–17:00	p. 210
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Natural and anthropogenic hazards in karst areas (co-listed in GM & HS) – Posters

Halls X/Y	10:30–12:00	p. 209
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Satellite Remote Sensing Applications in Hydrometeorology, Water Cycle, and Flood Forecasting (co-listed in AS)

Lecture Room 27	13:30–17:00	p. 202
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Multidisciplinary monitoring, characterization and early warning projects on large landslides

Lecture Room 18	13:30–17:00	p. 206
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Extreme Events: Causes and Consequences (E2-C2) (co-organized by NH & NP) (co-listed in GM) – Posters

Halls X/Y	13:30–15:00	p. 208
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Natural and anthropogenic hazards in karst areas (co-listed in GM & HS)

Lecture Room 16 (L)	13:30–19:00	p. 208
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Satellite Remote Sensing Applications for Urban Damage Detection – Posters

Halls X/Y	15:30–17:00	p. 210
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Satellite Remote Sensing Applications in Hydrometeorology, Water Cycle, and Flood Forecasting (co-listed in AS) – Posters

Halls X/Y	17:30–19:00	p. 203
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Diagnosis, modelling and forecasting of meteorological and hydrological hazards produced by extreme weather and climate change (co-listed in AS & CL) – Posters

Halls X/Y	17:30–19:00	p. 204
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Documentation and monitoring of landslides and debris flows for mathematical modelling and design of mitigation measures (co-listed in GM) – Posters

Halls X/Y	17:30–19:00	p. 205
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Multidisciplinary monitoring, characterization and early warning projects on large landslides – Posters

Halls X/Y	17:30–19:00	p. 206
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Satellite Remote Sensing Applications for Urban Damage Detection

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Modelling, computer-assisted simulations, and mapping of dangerous phenomena for hazard assessment – Posters

Halls X/Y	17:30–19:00	p. 211
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NP: Nonlinear Processes in Geosciences**Scale, scaling and nonlinear variability in aquatic biogeosystems (co-listed in BG & OS)**

Lecture Room 22	08:30–09:15	p. 213
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Scale, Scaling, nonlinear variability and turbulent structures in oceans, atmosphere and the climate (co-listed in AS, BG, CL & OS)

Lecture Room 22	09:15–12:00	p. 214
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ENSO: dynamics, predictability and response to climate change (co-listed in CL & OS)

Lecture Room 3	13:30–17:00	p. 213
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Scaling, subgrid models, downscaling and parameterization

Lecture Room 22	13:30–15:00	p. 214
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Geophysical extremes: Scaling aspects and modern statistical approaches

Lecture Room 22	15:30–17:00	p. 214
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Nonlinear low-frequency variability in atmosphere, ocean and the climate system (co-listed in CL & OS)

Lecture Room 3	17:30–19:00	p. 213
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Uncertainty, Random Dynamical Systems and Stochastic Modeling in Geophysics

Lecture Room 22	17:30–19:00	p. 215
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OS: Ocean Sciences**Open session on large scale ocean circulation variability (co-listed CL, BG) (including Fridjof Nansen Medal Lecture)**

Lecture Room D	08:30–17:00	p. 215
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Turbulent mixing in aquatic ecosystems - physical processes and ecosystem responses (co-listed in BG)

Lecture Room 7	13:30–15:00	p. 221
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Open session on large scale ocean circulation variability (co-listed CL, BG) (including Fridjof Nansen Medal Lecture) – Posters

Halls X/Y	17:30–19:00	p. 216
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Ocean Tracers and Anthropogenic CO₂ (co-listed in BG & CL) – Posters

Halls X/Y	17:30–19:00	p. 218
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Operational Oceanography: Skill Assessment and Error Analysis (co-listed GI, NP) – Posters

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High latitude changes in ocean, ice and climate (co-listed in CR & CL) – Posters

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Variability in the Southern Ocean (co-listed AS, CL, BG, CR) – Posters

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The Mediterranean Sea: a natural laboratory for marine interdisciplinary studies – Posters

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Fate of riverine matter in marine environments: pathways, feedbacks, characterization and quantification (co-listed in BG) – Posters

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PS: Planetary and Solar System Sciences**Recent Mars Science**

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Spectroscopy and Radiative Transfer in Planetary Atmospheres

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Atmospheres of terrestrial planets – Posters

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Small Bodies and Dust – Posters

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Planetary Plasma Physics – Posters

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Atmospheres of terrestrial planets

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Spectroscopy and Radiative Transfer in Planetary Atmospheres – Posters

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Experimental Planetology - Space simulations in laboratory

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Societal Benefits of Space Exploration – Posters

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Societal Benefits of Space Exploration

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SM: Seismology**Seismic Imaging with Coda and Noise**

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Testing Current Approaches to Inversion for Earth Structure and Earthquake Sources: Resolution, Robustness and Reliability

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Computational wave propagation

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Seismic Imaging with Coda and Noise – Posters

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New approaches to seismological data mining and real time seismology – Posters

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Techniques of near-surface seismic and georadar imaging

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Techniques of near-surface seismic and georadar imaging – Posters

Hall A 17:30–19:00 p. 229

Computational wave propagation – Posters

Hall A 17:30–19:00 p. 230

Testing Current Approaches to Inversion for Earth Structure and Earthquake Sources: Resolution, Robustness and Reliability – Posters

Hall A 17:30–19:00 p. 231

New approaches to seismological data mining and real time seismology

Lecture Room 26 17:30–19:00 p. 232

SSS: Soil System Sciences**Soil as a record of the past**

Lecture Room 33 08:30–10:00 p. 232

3D Visualization and Quantification of Soil Pore Geometries (co-listed in HS)

Lecture Room 33 10:30–12:00 p. 233

Transport in preferential flow domains of the soil porous system: Measuring, interpretation, models, upscaling (co-listed in HS)

Lecture Room 33 13:30–17:00 p. 234

Soil as a record of the past – Posters

Hall A 17:30–19:00 p. 233

3D Visualization and Quantification of Soil Pore Geometries (co-listed in HS) – Posters

Hall A 17:30–19:00 p. 233

Transport in preferential flow domains of the soil porous system: Measuring, interpretation, models, upscaling (co-listed in HS) – Posters

Hall A 17:30–19:00 p. 234

ST: Solar-Terrestrial Sciences**Coupling processes of radiation belts and plasmasphere**

Lecture Room 11 08:30–12:00 p. 240

Open session on the magnetosphere (including Hannes Alfvén Medal Lecture) – Posters

Halls X/Y 13:30–15:00 p. 236

Linear and nonlinear wave particle interactions in space plasmas

Lecture Room 11 13:30–19:00 p. 239

Theory and simulations of solar system plasmas (co-organized by PS) – Posters

Halls X/Y 15:30–17:00 p. 235

Coupling between regions and scales: the future is multipoint and multi-instrument – Posters

Halls X/Y 15:30–17:00 p. 238

SSP: Stratigraphy, Sedimentology and Palaeontology**Understanding the linkages of geosphere and biosphere evolution during Cenozoic and Mesozoic times (co-sponsored by IAS)**

Lecture Room 32 08:30–12:00 p. 243

Climate events recorded in speleothems (co-organized by CL) (co-listed in IG)

Lecture Room 32 13:30–19:00 p. 242

Understanding the linkages of geosphere and biosphere evolution during Cenozoic and Mesozoic times (co-sponsored by IAS) – Posters

Hall A 15:30–17:00 p. 243

Open session on Sedimentology, Stratigraphy and Palaeontology - Posters only (co-listed in CL) – Posters

Hall A 17:30–19:00 p. 240

3-d modelling of sedimentary Systems – Posters

Hall A 17:30–19:00 p. 242

Modelling subaqueous gravity flow processes and their deposits – Posters

Hall A 17:30–19:00 p. 242

TS: Tectonics and Structural Geology**Earthquake Geology (co-organized by NH)**

Lecture Room 5 (I) 08:30–12:00 p. 246

Deformation processes: microstructures, textures, rheology (co-listed in MPRG)

Lecture Room 3 08:30–12:00 p. 247

Linking geodynamic processes in southern Africa: a System Earth approach

Lecture Room 7 08:30–10:15 p. 250

Controls on the 3D Orientation of Brittle Fractures: Integrating Theory with Field & Laboratory Measurements

Lecture Room 7 10:30–12:00 p. 245

Open session – Posters

Halls X/Y 13:30–15:00 p. 244

Faulting in carbonate rocks: new insights on deformation mechanisms, petrophysics, and fluid flow properties – Posters

Halls X/Y 13:30–17:00 p. 244

Controls on the 3D Orientation of Brittle Fractures: Integrating Theory with Field & Laboratory Measurements – Posters

Halls X/Y 13:30–17:00 p. 245

Absolute dating of the brittle deformation (co-listed in IG) – Posters

Halls X/Y 13:30–17:00 p. 245

Seismogenic coupling zones - state and processes

Lecture Room 5 (I) 13:30–17:00 p. 246

Deformation processes: microstructures, textures, rheology (co-listed in MPRG) – Posters

Halls X/Y 13:30–17:00 p. 248

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Fri

Continental and oceanic wrench systems from top to bottom – Posters

Halls X/Y 13:30–17:00 p. 248

Structure and Dynamics of Mid-Ocean Ridges (co-organized by GD & GMPV) – Posters

Halls X/Y 13:30–17:00 p. 249

Tracing hydrothermal circulation at Mid-ocean ridges using geochemistry, geophysics and modelling – Posters

Halls X/Y 13:30–17:00 p. 250

Linking geodynamic processes in southern Africa: a System Earth approach – Posters

Halls X/Y 13:30–17:00 p. 251



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MEETING SCHEDULE

TUESDAY

US: Union Symposia

Toward a model/data synergy for understanding large changes in Earth Climate History: From the First Glaciation of the Earth to the Quaternary (abstract submission by invitation only) (co-listed in CL)

Lecture Room 4 (H) 08:30–19:00 p. 253

ES: Educational Symposia

GIFT Workshop: Geosciences in the City

Lecture Room 9 (P) 08:30–17:00 p. 254

AS: Atmospheric Sciences

Basic Studies on Turbulence in Atmospheric and Oceanic Boundary Layers (General Session)

Lecture Room 1 (G) 08:30–12:00 p. 258

Source apportionment of particulate matter

Lecture Room 10 (E1) 08:30–12:00 p. 260

The Tropospheric Ice Phase

Lecture Room 12 (E2) 08:30–12:00 p. 261

Solar UV – Posters

Halls X/Y 10:30–12:00 p. 256

Clouds, Aerosols and Radiation (General Session) – Posters

Halls X/Y 13:30–17:00 p. 254

Solar UV

Lecture Room 10 (E1) 13:30–15:15 p. 256

The quasi-biennial oscillation and its role in the climate system (co-listed in CL) – Posters

Halls X/Y 13:30–15:00 p. 257

Air-Sea Interactions (General Session) – Posters

Halls X/Y 13:30–15:00 p. 257

Basic Studies on Turbulence in Atmospheric and Oceanic Boundary Layers (General Session) – Posters

Halls X/Y 13:30–15:00 p. 258

Boundary Layers in High Latitudes: Observations and Modeling (Colisted in CR and CL)

Lecture Room 1 (G) 13:30–15:00 p. 259

Aerosol Chemistry and Microphysics (General Session)

Lecture Room 12 (E2) 13:30–17:15 p. 260

The quasi-biennial oscillation and its role in the climate system (co-listed in CL)

Lecture Room 10 (E1) 15:30–17:00 p. 257

Air-Sea Interactions (General Session)

Lecture Room 1 (G) 15:30–17:30 p. 257

Boundary Layers in High Latitudes: Observations and Modeling (Colisted in CR and CL) – Posters

Halls X/Y 15:30–17:00 p. 259

The Tropospheric Ice Phase – Posters

Halls X/Y 15:30–17:00 p. 261

BG: Biogeosciences

DOM biogeochemistry and ecosystem function: from soils to oceans (co-listed in OS)

Lecture Room 19 08:30–12:00 p. 262

Biogeochemistry of coastal seas and continental shelves (co-listed in OS) – Posters

Foyer BG 10:30–12:00 p. 264

Ecosystems of the deep sea-floor and their geological drivers (co-listed in SSP, OS & CL) – Posters

Foyer BG 10:30–12:00 p. 266

DOM biogeochemistry and ecosystem function: from soils to oceans (co-listed in OS) – Posters

Foyer BG 13:30–15:00 p. 263

Biogeochemistry of coastal seas and continental shelves (co-listed in OS)

Lecture Room 19 13:30–17:00 p. 264

Coupling biogeochemistry and ecology to fluid dynamics in aquatic ecosystems (co-organized by NP) (co-listed in OS) – Posters

Foyer BG 15:30–17:00 p. 266

CL: Climate: Past, Present, Future

Surface Radiation Budget, Radiative Forcings and Climate Change (co-listed in AS)

Lecture Room 14 08:30–12:00 p. 269

Climate of the last millennium: reconstructions, analyses and explanation of regional and seasonal changes (including Hans Oeschger Medal Lecture)

Lecture Room 13 (F1) 08:30–15:00 p. 272

Marine and terrestrial paleoclimate records - recent advances in IODP and ICDP

Lecture Room 25 08:30–10:00 p. 274

Antarctic cryosphere and Southern Ocean climate evolution (Cenozoic-Holocene)

Lecture Room 25 10:30–12:00 p. 273

Generality of Climate Models and their Components (co-listed in AS & NP)

Lecture Room 14 13:30–15:00 p. 267

Mon

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Fri

Land-atmosphere coupling in past, present and future climate (co-listed in AS, BG & HS) / Subsurface temperature signals of climate change, processes involved, and importance to climate modeling

Lecture Room 25 13:30–17:00 p. 267

Past, Present and Future Changes in Ocean Circulation: Data and Models (co-listed in OS)

Lecture Room 13 (F1) 15:30–17:15 p. 271

Earth System Modelling: Strategies and Software (co-organized by GI, co-listed in AS, HS & OS)

Lecture Room 14 15:30–17:00 p. 275

Generality of Climate Models and their Components (co-listed in AS & NP) – Posters

Halls X/Y 17:30–19:00 p. 267

Land-atmosphere coupling in past, present and future climate (co-listed in AS, BG & HS) / Subsurface temperature signals of climate change, processes involved, and importance to climate modeling – Posters

Halls X/Y 17:30–19:00 p. 268

Surface Radiation Budget, Radiative Forcings and Climate Change (co-listed in AS) – Posters

Halls X/Y 17:30–19:00 p. 270

Past, Present and Future Changes in Ocean Circulation: Data and Models (co-listed in OS) – Posters

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Climate of the last millennium: reconstructions, analyses and explanation of regional and seasonal changes (including Hans Oeschger Medal Lecture) – Posters

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Antarctic cryosphere and Southern Ocean climate evolution (Cenozoic-Holocene) – Posters

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Marine and terrestrial paleoclimate records - recent advances in IODP and ICDP – Posters

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Earth System Modelling: Strategies and Software (co-organized by GI, co-listed in AS, HS & OS) – Posters

Halls X/Y 17:30–19:00 p. 276

CR: Cryospheric Sciences

Remote sensing of snow cover and sea ice (co-listed in HS)

Lecture Room 29 08:30–10:00 p. 279

Open session on permafrost (co-listed in CL, GM & NH)

Lecture Room 29 10:30–12:00 p. 276

Mass and energy balance of snow and ice

Lecture Room 29 13:30–15:15 p. 276

Modelling sea ice and ice-ocean interactions (co-listed in OS)

Lecture Room 7 13:30–17:00 p. 279

Mountain Hydrology and Climatology: present state and future scenarios (co-listed in HS)

Lecture Room 29 15:30–17:30 p. 277

Mass and energy balance of snow and ice – Posters

Hall A 17:30–19:00 p. 277

Mountain Hydrology and Climatology: present state and future scenarios (co-listed in HS) – Posters

Hall A 17:30–19:00 p. 278

Remote sensing of snow cover and sea ice (co-listed in HS) – Posters

Hall A 17:30–19:00 p. 279

Modelling sea ice and ice-ocean interactions (co-listed in OS) – Posters

Hall A 17:30–19:00 p. 280

GMPV: Geochemistry, Mineralogy, Petrology & Volcanology

Understanding physical and chemical signals from active volcanoes – Posters

Hall A 08:30–12:00 p. 281

Phase changes, magma properties, and magmatic and eruptive processes

Lecture Room 21 (O) 08:30–12:00 p. 282

The Role of Accessory Minerals in Metamorphic and Igneous Processes

Lecture Room 20 (N) 08:30–12:00 p. 283

Mineral properties and behaviour: the European Mineral Sciences Initiative (EuroMinSci) open session (including the EMU Research Excellence Medal Lecture) (co-organized by BG) (co-listed in CR, NP, SSP) – Posters

Hall A 08:30–12:00 p. 285

Understanding physical and chemical signals from active volcanoes

Lecture Room 21 (O) 13:30–17:00 p. 281

Advances in the knowledge of the magmatic and eruptive history of European active volcanoes – Posters

Hall A 13:30–17:00 p. 283

The Role of Accessory Minerals in Metamorphic and Igneous Processes – Posters

Hall A 13:30–19:00 p. 284

Mineral properties and behaviour: the European Mineral Sciences Initiative (EuroMinSci) open session (including the EMU Research Excellence Medal Lecture) (co-organized by BG) (co-listed in CR, NP, SSP)

Lecture Room 20 (N) 13:30–17:00 p. 284

Advances in the knowledge of the magmatic and eruptive history of European active volcanoes

Lecture Room 21 (O) 17:30–19:00 p. 282

G: Geodesy

The impact of technique errors on reference frame accuracy and stability

Lecture Room 6 (K) 08:30–15:00 p. 286

From depth to surface: Surface motion and deformation forced by crust-mantle processes (co-organized by GD) (co-listed in NH)

Lecture Room 6 (K) 15:30–17:00 p. 288

The impact of technique errors on reference frame accuracy and stability – Posters

Halls X/Y 17:30–19:00 p. 287

From depth to surface: Surface motion and deformation forced by crust-mantle processes (co-organized by GD) (co-listed in NH) – Posters

Halls X/Y 17:30–19:00 p. 288

Open Session on Geodesy and Geodynamics – Posters

Halls X/Y 17:30–19:00 p. 288

GD: Geodynamics

The Earth's Mantle - Geodynamical and Geochemical Models for the Structure and Composition – Posters

Hall A 08:30–12:00 p. 290

Modelling and Monitoring the Deformation and State of Stress of the Lithosphere (co-sponsored by the International Lithosphere Program Task Force VII, co-listed in SM & G) – Posters

Hall A 08:30–12:00 p. 291

The link of deep and shallow lithospheric processes in sedimentary basins-ILP Task Force Sedimentary Basins

Lecture Room 23 08:30–10:00 p. 292

Kinematics and Geodynamics of the Central and Western Mediterranean (co-listed in TS, G & NH)

Lecture Room 23 10:30–12:00 p. 293

The Earth's Mantle - Geodynamical and Geochemical Models for the Structure and Composition

Lecture Room 23 13:30–19:00 p. 290

The link of deep and shallow lithospheric processes in sedimentary basins-ILP Task Force Sedimentary Basins – Posters

Hall A 13:30–17:00 p. 292

GM: Geomorphology

High Mountain Geomorphology

Lecture Room 7 08:30–10:15 p. 294

Mechanisms of coupling and feedback between tectonics, climate and surface processes (co-listed in GD & CL)

Lecture Room 17 (M) 08:30–17:00 p. 294

Surface and Subsurface Karst Geomorphology

Lecture Room 7 10:30–12:00 p. 293

Surface and Subsurface Karst Geomorphology – Posters

Halls X/Y 17:30–19:00 p. 294

Mechanisms of coupling and feedback between tectonics, climate and surface processes (co-listed in GD & CL) – Posters

Halls X/Y 17:30–19:00 p. 295

GI: Geosciences Instrumentation and Data Systems

Atmosphere, Ocean and Meteorological Instruments (co-listed in AS, CL, OS, PS & ST)

Lecture Room 2 08:30–12:00 p. 297

Instrumentation for Ocean Observatories and Early Warning Systems (co-listed in OS, NH & SM)

Lecture Room 2 13:30–15:00 p. 298

Instrumentation related to polar regions and the IPY (co-listed in AS, BG, CR & OS)

Lecture Room 2 15:30–19:00 p. 298

Open session on Geoscience Instrumentation (co-listed in GMPV, G, HS, MPRG, NH, OS & SM) – Posters

Halls X/Y 17:30–19:00 p. 297

Down hole Instrumentation: Technology and Applications (co-listed in GM, GMPV, PS, SSP & SSS) – Posters

Halls X/Y 17:30–19:00 p. 299

HS: Hydrological Sciences

Strategies to community building in hydrology (invited papers only) (co-listed in US)

Lecture Room 28 (B) 08:30–15:00 p. 299

Groundwater stochastic hydrology

Lecture Room 31 08:30–10:00 p. 302

Hydroinformatics: computational intelligence and technological developments in water science applications (co-listed in NH & GI)

Lecture Room 30 (C) 08:30–15:00 p. 305

Unsaturated zone flow and transport processes: from science to soil and water management

Lecture Room 31 10:30–12:30 p. 302

Fissured and karstified aquifers (co-listed in IG)

Lecture Room 31 13:30–15:00 p. 301

Water storage, level and discharge from remote sensing and geodesy (co-listed in G & GI) – Posters

Hall A 15:30–17:00 p. 300

Operational applications of remote sensing in water resources management and hydrology

Lecture Room 30 (C) 15:30–17:00 p. 300

Fissured and karstified aquifers (co-listed in IG) – Posters

Hall A 15:30–17:00 p. 301

Groundwater stochastic hydrology – Posters

Hall A 15:30–17:00 p. 302

Unsaturated zone flow and transport processes: from science to soil and water management – Posters

Hall A 15:30–17:00 p. 303

River and stream temperature: dynamics, processes, models and implications

Lecture Room 31 15:30–17:30 p. 303

Monitoring network design and new instrumentation in hydrology – Posters

Hall A 15:30–17:00 p. 304

Sustainable catchment management: assessing water quality on the catchment scale

Lecture Room 28 (B) 15:30–17:30 p. 304

Hydroinformatics: computational intelligence and technological developments in water science applications (co-listed in NH & GI) – Posters

Hall A 15:30–17:00 p. 306

Dryland hydrology – Posters

Hall A 15:30–17:00 p. 307

IG: Isotopes in Geosciences: Instrumentation and Applications

Stable Isotopes in Geosciences - Open Session (include blocks of special interest)

Lecture Room 34 08:30–15:00 p. ??

Stable Isotopes in Geosciences - Open Session (include blocks of special interest) – Posters

Hall A 17:30–19:00 p. ??

MPRG: Magnetism, Palaeomagnetism, Rock Physics & Geomaterials

Paleomagnetism, Climate and Environmental magnetism (co-listed in CL and SSP) – Posters

Hall A 10:30–12:00 p. 308

Paleomagnetism, Climate and Environmental magnetism (co-listed in CL and SSP)

Lecture Room 34 15:30–17:00 p. 307

NH: Natural Hazards

Precipitation Science (co-listed in AS) (including Sergey Soloviev Medal Lecture)

Lecture Room 24 08:30–19:00 p. 308

Remote sensing and geophysical techniques for investigating unstable slopes (co-listed in GM & GI)

Lecture Room 27 08:30–12:00 p. 309

Slope movements in weathered materials: recognition, analysis, and hazard assessment (co-listed in GM)

Lecture Room 18 08:30–12:00 p. 310

Snow cover, snow avalanche formation and dynamics, risk assessment

Lecture Room 16 (L) 08:30–12:00 p. 312

Heavy-metal contamination of water, air, soil, and food-crops (co-organized by NH and BG) (co-listed in SSS) – Posters

Halls X/Y 10:30–12:00 p. 313

Mechanics of Mass Flows (co-listed in GM)

Lecture Room 27 13:30–15:00 p. 310

Time and intensity prediction in landslide hazard assessment

Lecture Room 18 13:30–17:00 p. 311

Snow cover, snow avalanche formation and dynamics, risk assessment – Posters

Halls X/Y 13:30–15:00 p. 313

Early warning systems and multidisciplinary approaches in natural hazards and risk assessments

Lecture Room 16 (L) 13:30–15:00 p. 316

Rock falls: Analysis, Simulation and Protection

Lecture Room 27 15:30–19:00 p. 310

Spatial and temporal patterns of wildfires: models, theory, and reality (co-organized by BG & NH)

Lecture Room 16 (L) 15:30–19:00 p. 315

Slope movements in weathered materials: recognition, analysis, and hazard assessment (co-listed in GM) – Posters

Halls X/Y 17:30–19:00 p. 311

Time and intensity prediction in landslide hazard assessment – Posters

Halls X/Y 17:30–19:00 p. 312

Early warning systems and multidisciplinary approaches in natural hazards and risk assessments – Posters

Halls X/Y 17:30–19:00 p. 316

Interoperability and data access requirements for disaster reduction and emergency management (co-listed in GI)

Lecture Room 18 17:30–20:00 p. 317

NP: Nonlinear Processes in Geosciences

Transport, Diffusion and Mixing in Geophysical flows

Lecture Room 22 08:30–10:00 p. 325

Nonlinear Waves, Instabilities and Wave-flow interactions (co-listed in OS)

Lecture Room 22 10:30–12:00 p. 326

ENSO: dynamics, predictability and response to climate change (co-listed in CL & OS) – Posters

Halls X/Y 13:30–15:00 p. 317

Nonlinear low-frequency variability in atmosphere, ocean and the climate system (co-listed in CL & OS) – Posters

Halls X/Y 13:30–15:00 p. 318

Nonlinear time series analysis in the geosciences – Posters

Halls X/Y 13:30–15:00 p. 322

Statistical analysis of paleoclimate time series (co-listed in CL) – Posters

Halls X/Y 13:30–15:00 p. 322

Simple dynamical models from data: a tool for parametrizations and diagnostics (co-listed in CL) – Posters

Halls X/Y 13:30–15:00 p. 323

Earthquake prediction: what can be done with the best science available? (co-organized by US) (co-listed in NH & SM) – Posters

Halls X/Y 13:30–15:00 p. 323

Jets, Wakes and Vortices

Lecture Room 22 13:30–14:15 p. 326

Geophysical Laboratory and Field Experiments – Posters

Halls X/Y 13:30–15:00 p. 326

Astrophysical Turbulence and Shocks, Plasmas and High Mach Number Flows (co-listed in PS)

Lecture Room 22 14:15–15:00 p. 327

Scale, scaling and nonlinear variability in aquatic biogeosystems (co-listed in BG & OS) – Posters

Halls X/Y 15:30–17:00 p. 318

Scale, Scaling, nonlinear variability and turbulent structures in oceans, atmosphere and the climate (co-listed in AS, BG, CL & OS) – Posters

Halls X/Y 15:30–17:00 p. 318

Scaling, subgrid models, downscaling and parameterization – Posters

Halls X/Y 15:30–17:00 p. 319

Geophysical extremes: Scaling aspects and modern statistical approaches – Posters

Halls X/Y 15:30–17:00 p. 319

Uncertainty, Random Dynamical Systems and Stochastic Modeling in Geophysics – Posters

Halls X/Y 15:30–17:00 p. 319

Dynamics of Seismicity Patterns and Earthquake Triggering (co-listed in SM) – Posters

Halls X/Y 15:30–17:00 p. 320

Scale, Scaling, and nonlinearity in Solid Earth (co-listed in GMPV, NH, SSS & TS) – Posters

Halls X/Y 15:30–17:00 p. 320

Scales and scaling in surface and subsurface hydrology (co-listed in HS) – Posters

Halls X/Y 15:30–17:00 p. 321

Geophysical Laboratory and Field Experiments

Lecture Room 22 15:30–17:00 p. 326

Quantifying predictability – Posters

Halls X/Y 17:30–19:00 p. 324

Data assimilation in the presence of nonlinearities (co-listed in AS) – Posters

Halls X/Y 17:30–19:00 p. 324

Ensemble prediction in hydrology (HEPEX) (co-listed in HS & NH) – Posters

Halls X/Y 17:30–19:00 p. 325

Turbulence in the Atmosphere and Ocean (co-listed in AS & OS)

Lecture Room 22 17:30–19:00 p. 327

OS: Ocean Sciences

High latitude changes in ocean, ice and climate (co-listed in CR & CL)

Lecture Room D 08:30–12:00 p. 327

Variability in the Southern Ocean (co-listed in AS, CL, BG, CR)

Lecture Room D 13:30–19:00 p. 328

The Mediterranean Sea: a natural laboratory for marine interdisciplinary studies

Lecture Room D 15:30–19:00 p. 328

PS: Planetary and Solar System Sciences

Open Session on Terrestrial Planets – Posters

Halls X/Y 08:30–10:00 p. 329

Small Bodies and Dust

Lecture Room 8 08:30–15:00 p. 332

Planetary Plasma Physics

Lecture Room 11 08:30–17:00 p. 333

Venus Express: one year in orbit – Posters

Halls X/Y 10:30–12:00 p. 330

Recent Mars Science – Posters

Halls X/Y 10:30–12:00 p. 331

Experimental Planetology - Space simulations in laboratory – Posters

Halls X/Y 13:30–15:00 p. 329

Venus Express: one year in orbit

Lecture Room 15 (F2) 13:30–19:00 p. 330

Planetary Magnetism (co-organized by MPRG) – Posters

Halls X/Y 15:30–17:00 p. 335

Planetary Magnetism (co-organized by MPRG)

Lecture Room 11 17:30–19:30 p. 334

SM: Seismology

Precambrian lithosphere: insights from geophysics, geochemistry, and geodynamics

Lecture Room 26 08:30–10:00 p. 337

Controlled and natural source seismic investigations of crust and upper mantle

Lecture Room 26 10:30–17:00 p. 335

Source Rupture Processes and Crustal Deformation in the Aegean and Eastern Mediterranean Region – Posters

Hall A 10:30–12:00 p. 338

Controlled and natural source seismic investigations of crust and upper mantle – Posters

Hall A 17:30–19:00 p. 336

Precambrian lithosphere: insights from geophysics, geochemistry, and geodynamics – Posters

Hall A 17:30–19:00 p. 337

Source Rupture Processes and Crustal Deformation in the Aegean and Eastern Mediterranean Region

Lecture Room 6 (K) 17:30–19:00 p. 338

SSS: Soil System Sciences

Soil erosion on agricultural land (co-listed in GM)

Lecture Room 33 08:30–17:00 p. 339

Mon

Tue

Wed

Thu

Fri

Soil erosion on agricultural land (co-listed in GM) – Posters

Hall A	17:30–19:00	p. 340
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ST: Solar-Terrestrial Sciences**Open session on the Sun and heliosphere**

Lecture Room 15 (F2)	08:30–12:00	p. 341
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Linear and nonlinear wave particle interactions in space plasmas – Posters

Halls X/Y	10:30–12:00	p. 342
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Coupling processes of radiation belts and plasmasphere – Posters

Halls X/Y	13:30–15:00	p. 343
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Sources and sinks of energy in the substorm cycle – Posters

Halls X/Y	15:30–17:00	p. 343
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Solar, heliospheric and atmospheric coupling with near-Earth space

Lecture Room 8	15:30–19:00	p. 343
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SSP: Stratigraphy, Sedimentology and Palaeontology**Cenozoic basin evolution and uplift of the Paratethys basin system (co-listed in TS) – Posters**

Hall A	08:30–10:00	p. 344
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Modelling subaqueous gravity flow processes and their deposits

Lecture Room 32	08:30–09:15	p. 344
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3-d modelling of sedimentary Systems

Lecture Room 32	09:15–10:00	p. 344
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Palaeoceanographic and palaeoclimatic change during the Palaeozoic, Mesozoic and Cenozoic: sedimentological, palaeontological, geochemical and modelling perspectives (co-organized by CL; co-sponsored by IAS)

Lecture Room 32	10:30–17:00	p. 345
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Palaeoceanographic and palaeoclimatic change during the Palaeozoic, Mesozoic and Cenozoic: sedimentological, palaeontological, geochemical and modelling perspectives (co-organized by CL; co-sponsored by IAS) – Posters

Hall A	17:30–19:00	p. 346
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Climate events recorded in speleothems (co-organized by CL) (co-listed in IG) – Posters

Hall A	17:30–19:00	p. 347
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Epeiric shelves - geochemistry, sedimentology, paleohydrology (co-sponsored by IAS)

Lecture Room 32	17:30–19:00	p. 348
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TS: Tectonics and Structural Geology**Quantitative Structural Geology: Comparison of model results with natural examples**

Lecture Room 5 (I)	08:30–14:15	p. 349
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Seismogenic coupling zones - state and processes – Posters

Halls X/Y	08:30–12:00	p. 349
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Earthquake Geology (co-organized by NH) – Posters

Halls X/Y	08:30–12:00	p. 350
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Continental and oceanic wrench systems from top to bottom

Lecture Room 3	08:30–10:00	p. 351
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Structure and Dynamics of Mid-Ocean Ridges (co-organized by GD & GMPV)

Lecture Room 3	10:30–14:15	p. 354
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Orogen-basin coupling in intracontinental orogenic setting – Posters

Halls X/Y	13:30–17:00	p. 351
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Arc-continent collision orogens (including Stephan Mueller Medal Lecture) – Posters

Halls X/Y	13:30–17:00	p. 352
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Material transfer at convergent margins – Posters

Halls X/Y	13:30–17:00	p. 353
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The tectonics and dynamics of subduction: from shallow to deep processes – Posters

Halls X/Y	13:30–17:00	p. 353
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The strengths and challenges of analogue and numerical models (co-listed in GD)

Lecture Room 5 (I)	14:15–17:00	p. 348
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Tracing hydrothermal circulation at Mid-ocean ridges using geochemistry, geophysics and modelling

Lecture Room 3	14:15–17:00	p. 354
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ML: Medal Lectures**John Dalton Medal Lecture**

Lecture Room 30 (C)	18:30–19:30	p. 355
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Vilhelm Bjerknes Medal Lecture

Lecture Room 28 (B)	19:00–20:00	p. 355
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Vening Meinesz Medal Lecture

Lecture Room 15 (F2)	19:00–20:00	p. 355
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Augustus Love Medal Lecture

Lecture Room 4 (H)	19:00–20:00	p. 355
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Louis Néel Medal Lecture

Lecture Room 5 (I)	19:00–20:00	p. 355
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F: Forums**Forum on the Strategy for the Global Geodetic Observing System: Meeting the Requirements of a Global Society on a Changing Planet in 2020 (GGOS2020)**

Lecture Room 13 (F1)	17:30–19:00	p. ??
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MEETING SCHEDULE

WEDNESDAY

US: Union Symposia

Union Award Presentations and Medal Lectures

Lecture Room D 17:30–19:15 p. 357

ES: Educational Symposia

GIFT Workshop: Geosciences in the City

Lecture Room 9 (P) 08:30–12:00 p. 357

ECORD Teachers Workshop: Exploring the Ocean Floor with the Integrated Ocean Drilling Program

Lecture Room 9 (P) 13:30–17:00 p. 357

AS: Atmospheric Sciences

Dynamical Meteorology (General Session)

Lecture Room 10 (E1) 08:30–10:15 p. 357

Air-Land Interactions (General Session) (co-listed in BG & HS)

Lecture Room 29 08:30–15:00 p. 362

Aerosol Chemistry and Microphysics (General Session)

Lecture Room 12 (E2) 08:30–10:15 p. 364

Air Pollution Modelling

Lecture Room 1 (G) 08:30–12:00 p. 367

Dynamical Meteorology (General Session) – Posters

Halls X/Y 10:30–12:00 p. 357

The tropical tropopause region

Lecture Room 10 (E1) 10:30–15:15 p. 360

Aerosol-Precipitation Interactions – Posters

Halls X/Y 10:30–12:00 p. 362

Aerosol Chemistry and Microphysics (General Session) – Posters

Halls X/Y 10:30–15:00 p. 365

Cloud Chemistry and Microphysics (General Session)

Lecture Room 12 (E2) 10:30–12:00 p. 366

Observation, Prediction and Verification of Precipitation (General Session) (co-listed in HS) – Posters

Halls X/Y 13:30–17:00 p. 358

Dynamics and chemistry of atmospheric moist convection

Lecture Room 12 (E2) 13:30–15:15 p. 360

Cloud Chemistry and Microphysics (General Session) – Posters

Halls X/Y 13:30–15:00 p. 366

Air Pollution Modelling – Posters

Halls X/Y 13:30–15:00 p. 367

Source apportionment of particulate matter – Posters

Halls X/Y 13:30–17:00 p. 368

Megacity Impacts on Regional and Global Scales

Lecture Room 1 (G) 13:30–18:00 p. 369

Dynamics and chemistry of atmospheric moist convection – Posters

Halls X/Y 15:30–17:00 p. 361

Joint Session of the MLT and the CAWSES program (co-organized by ST)

Lecture Room 12 (E2) 15:30–17:15 p. 361

Aerosol-Precipitation Interactions

Lecture Room 10 (E1) 15:30–17:00 p. 362

Air-Land Interactions (General Session) (co-listed in BG & HS) – Posters

Halls X/Y 15:30–17:00 p. 363

BG: Biogeosciences

Electron transfer processes in soils, sediments, and aquifers: concepts and cases (co-listed in SSS)

Lecture Room 20 (N) 08:30–10:00 p. 372

Application of stable isotopes in biogeosciences (co-listed in IG)

Lecture Room 19 08:30–12:00 p. 372

Biodiversity science in Europe: new tools and strategies (EuroDIVERSITY) (co-listed in ERE) – Posters

Foyer BG 10:30–12:00 p. 370

Analysis and Characterization of Black Carbon in the Environment (co-listed in AS, HS, OS & SSS) – Posters

Foyer BG 10:30–12:00 p. 371

Electron transfer processes in soils, sediments, and aquifers: concepts and cases (co-listed in SSS) – Posters

Foyer BG 10:30–12:00 p. 372

Climate variability and the carbon cycle (past, present and future): The EuroCLIMATE Programme on multiproxy reconstructions and coupled climate models at European and regional scales (co-organized by CL) (co-listed in CR & SSP) (including Outstanding Young Scientists & Vladimir Ivanovich Vernadsky Medal Lectures) – Posters

Foyer BG 10:30–12:00 p. 375

Coupling biogeochemistry and ecology to fluid dynamics in aquatic ecosystems (co-organized by NP) (co-listed in OS)

Lecture Room 20 (N) 10:30–12:00 p. 376

Biodiversity science in Europe: new tools and strategies (EuroDIVERSITY) (co-listed in ERE)

Lecture Room 20 (N) 13:30–15:00 p. 370

Analysis and Characterization of Black Carbon in the Environment (co-listed in AS, HS, OS & SSS)

Lecture Room 19 13:30–17:00 p. 370

Application of stable isotopes in biogeosciences (co-listed in IG) – Posters

Foyer BG 13:30–15:00 p. 373

Climate variability and the carbon cycle (past, present and future): The EuroCLIMATE Programme on multi-proxy reconstructions and coupled climate models at European and regional scales (co-organized by CL) (co-listed in CR & SSP) (including Outstanding Young Scientists & Vladimir Ivanovich Vernadsky Medal Lectures)

Lecture Room 25 13:30–19:00 p. 374

CL: Climate: Past, Present, Future

Organic Carbon-Rich Marine Sediments Past, Present and Future : Oceans and Climate Feedbacks (co-listed in BG & SSP)

Lecture Room 25 08:30–12:00 p. 377

Large-scale climate modes in the Northern Hemisphere / Atmospheric teleconnections

Lecture Room 14 08:30–12:00 p. 379

EPICA-MIS: EPICA ice cores, marine counterparts, and Quaternary Earth System Dynamics (co-listed in CR)

Lecture Room 13 (F1) 08:30–15:00 p. 382

East African geodynamics, climate and evolution (co-organized with GD) (co-listed in TS & SSP)

Lecture Room 14 13:30–17:00 p. 380

Regional and Global Climate Impact of the Atlantic Ocean Variability (co-listed in OS)

Lecture Room 20 (N) 15:30–17:00 p. 378

Antarctica and the Global Climate System (co-listed in AS, CR & OS)

Lecture Room 13 (F1) 15:30–17:00 p. 384

Organic Carbon-Rich Marine Sediments Past, Present and Future : Oceans and Climate Feedbacks (co-listed in BG & SSP) – Posters

Halls X/Y 17:30–19:00 p. 377

Regional and Global Climate Impact of the Atlantic Ocean Variability (co-listed in OS) – Posters

Halls X/Y 17:30–19:00 p. 379

Large-scale climate modes in the Northern Hemisphere / Atmospheric teleconnections – Posters

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East African geodynamics, climate and evolution (co-organized with GD) (co-listed in TS & SSP) – Posters

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EPICA-MIS: EPICA ice cores, marine counterparts, and Quaternary Earth System Dynamics (co-listed in CR) – Posters

Halls X/Y 17:30–19:00 p. 383

Antarctica and the Global Climate System (co-listed in AS, CR & OS) – Posters

Halls X/Y 17:30–19:00 p. 385

CR: Cryospheric Sciences

Subglacial landforms: observations and modelling (co-organised in GM)

Lecture Room 26 08:30–12:15 p. 386

Snow dynamics and snow-atmosphere exchange over Greenland and Antarctica (co-listed in AS & CL)

Lecture Room 26 13:30–15:00 p. 385

Glaciology, climate, and oceanography of the Antarctic Peninsula and the sub-Antarctic (co-listed in CL & HS)

Lecture Room 29 15:30–17:00 p. 386

Snow dynamics and snow-atmosphere exchange over Greenland and Antarctica (co-listed in AS & CL) – Posters

Hall A 17:30–19:00 p. 385

Glaciology, climate, and oceanography of the Antarctic Peninsula and the sub-Antarctic (co-listed in CL & HS) – Posters

Hall A 17:30–19:00 p. 386

Subglacial landforms: observations and modelling (co-organised in GM) – Posters

Hall A 17:30–19:00 p. 387

ERE: Energy, Resources and the Environment

Advances in CO2 storage in geological systems

Lecture Room 2 08:30–12:00 p. 388

Renewable resources in general

Lecture Room 2 13:30–15:00 p. 388

Climate change impact on economical and industrial activities (co-listed in CL)

Lecture Room 2 15:30–17:00 p. 389

Integrated assessment of energy options and risk assessment methodologies (co-listed in CL)

Lecture Room 2 17:30–19:00 p. 389

GMPV: Geochemistry, Mineralogy, Petrology & Volcanology

Explosive activity at basaltic volcanoes – Posters

Hall A 08:30–15:00 p. 390

Magmatic differentiation: current ideas and future developments (including Robert Wilhelm Bunsen Medal Lecture)

Lecture Room 21 (O) 08:30–15:00 p. 390

Explosive activity at basaltic volcanoes

Lecture Room 21 (O) 15:30–19:00 p. 389

Magmatic differentiation: current ideas and future developments (including Robert Wilhelm Bunsen Medal Lecture) – Posters

Hall A 15:30–19:00 p. 391

G: Geodesy**GRACE Science Applications**

Lecture Room 6 (K) 08:30–15:00 p. 392

Current state of ocean tide modelling

Lecture Room 6 (K) 15:30–17:00 p. 394

GRACE Science Applications – Posters

Halls X/Y 17:30–19:00 p. 393

Current state of ocean tide modelling – Posters

Halls X/Y 17:30–19:00 p. 394

GD: Geodynamics**Geophysical and Geochemical Views of the Lithosphere - Asthenosphere Interaction (co-sponsored by International Lithosphere Programme Task Force III, co-listed in SM & GMPV)**

Lecture Room 23 08:30–10:15 p. 395

Ice-Mass Fluctuations and the Dynamical Responses of the Solid Earth (co-organized by G)

Lecture Room 23 10:30–11:15 p. 396

Ice-Mass Fluctuations and the Dynamical Responses of the Solid Earth (co-organized by G)

Lecture Room 23 11:15–12:00 p. 396

Geophysical and Geochemical Views of the Lithosphere - Asthenosphere Interaction (co-sponsored by International Lithosphere Programme Task Force III, co-listed in SM & GMPV) – Posters

Hall A 13:30–17:00 p. 395

Dynamics and Thermal Structure of Subduction Zones

Lecture Room 23 13:30–15:00 p. 396

Geodynamics and Geochemistry of the Early Earth (co-listed in TS & GMPV)

Lecture Room 23 15:30–19:00 p. 394

GM: Geomorphology**Seafloor Expression of Tectonic & Geomorphic Processes (co-listed in OS, SSP & TS)**

Lecture Room 17 (M) 08:30–10:00 p. 397

The Role of Vegetation in Geomorphological Connectivity and Land Degradation

Lecture Room 7 08:30–12:00 p. 399

Coastal geomorphology

Lecture Room 17 (M) 10:30–12:00 p. 398

Planetary Geomorphology (co-listed in PS)

Lecture Room 17 (M) 13:30–15:00 p. 400

Aeolian Processes and Landforms (co-listed in CL)

Lecture Room 17 (M) 15:30–17:00 p. 396

Aeolian Processes and Landforms (co-listed in CL) – Posters

Halls X/Y 17:30–19:00 p. 397

Seafloor Expression of Tectonic & Geomorphic Processes (co-listed in OS, SSP & TS) – Posters

Halls X/Y 17:30–19:00 p. 398

Coastal geomorphology – Posters

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The Role of Vegetation in Geomorphological Connectivity and Land Degradation – Posters

Halls X/Y 17:30–19:00 p. 399

Planetary Geomorphology (co-listed in PS) – Posters

Halls X/Y 17:30–19:00 p. 400

GI: Geosciences Instrumentation and Data Systems**Atmosphere, Ocean and Meteorological Instruments (co-listed in AS, CL, OS, PS & ST) – Posters**

Halls X/Y 17:30–19:00 p. 401

Instrumentation for Ocean Observatories and Early Warning Systems (co-listed in OS, NH & SM) – Posters

Halls X/Y 17:30–19:00 p. 401

Instrumentation related to polar regions and the IPY (co-listed in AS, BG, CR & OS) – Posters

Halls X/Y 17:30–19:00 p. 402

HS: Hydrological Sciences**Persistent organic pollutants in soils: sources, sinks, and processing**

Lecture Room 31 08:30–10:00 p. 405

Open session on catchment modelling and process analysis

Lecture Room 28 (B) 08:30–15:00 p. 407

Integrated water resources assessment, with special focus on developing countries

Lecture Room 30 (C) 08:30–10:00 p. 409

Urban impacts on soils and groundwater (co-listed in SSS)

Lecture Room 31 10:30–12:00 p. 403

Hydrological, chemical and biological processes in rivers and riparian zones (co-listed in BG & GM)

Lecture Room 30 (C) 10:30–17:00 p. 406

Colloids, microorganisms and coupled hydrological, biological and chemical processes in the unsaturated zone

Lecture Room 31 13:30–15:00 p. 404

Operational applications of remote sensing in water resources management and hydrology – Posters

Hall A 15:30–17:00 p. 402

Urban impacts on soils and groundwater (co-listed in SSS) – Posters

Hall A 15:30–17:00 p. 403

Geothermal energy and brine transport

Lecture Room 31 15:30–17:00 p. 404

Colloids, microorganisms and coupled hydrological, biological and chemical processes in the unsaturated zone – Posters

Hall A 15:30–17:00 p. 404

Persistent organic pollutants in soils: sources, sinks, and processing – Posters

Hall A 15:30–17:00 p. 405

River and stream temperature: dynamics, processes, models and implications – Posters

Hall A 15:30–17:00 p. 405

Open session on catchment modelling and process analysis – Posters

Hall A 15:30–17:00 p. 408

Sustainable catchment management: assessing water quality on the catchment scale – Posters

Hall A 15:30–17:00 p. 409

Instruments for integrated and transboundary water resources management

Lecture Room 28 (B) 15:30–17:30 p. 410

MPRG: Magnetism, Palaeomagnetism, Rock Physics & Geomaterials

One hundred years after Brunhes: geomagnetic reversal and palaeointensity behaviour (co-listed in GD and NP) – Posters

Hall A 08:30–12:00 p. 411

The effect of temperature on rock properties

Lecture Room 34 08:30–10:00 p. 412

Strain localization in rocks (co-listed in TS)

Lecture Room 34 10:30–12:30 p. 412

One hundred years after Brunhes: geomagnetic reversal and palaeointensity behaviour (co-listed in GD and NP)

Lecture Room 34 13:30–19:00 p. 410

Open session in rock magnetism and paleomagnetism – Posters

Hall A 13:30–17:00 p. 411

The effect of temperature on rock properties – Posters

Hall A 13:30–17:00 p. 412

Strain localization in rocks (co-listed in TS) – Posters

Hall A 13:30–17:00 p. 413

NH: Natural Hazards

Precipitation Science (co-listed in AS) (including Sergey Soloviev Medal Lecture)

Lecture Room 24 08:30–12:00 p. 413

Rainfall induced landslides and debris flows

Lecture Room 18 08:30–12:00 p. 419

Seismic hazard evaluation, precursory phenomena and reliability of prediction

Lecture Room 16 (L) 08:30–12:00 p. 421

Spatial and temporal patterns of wildfires: models, theory, and reality (co-organized by BG & NH) – Posters

Halls X/Y 10:30–12:00 p. 422

Natural Hazards' Impact on Urban Areas and Infrastructure (co-listed in SM) – Posters

Halls X/Y 10:30–12:00 p. 424

Precipitation Science (co-listed in AS) (including Sergey Soloviev Medal Lecture) – Posters

Halls X/Y 13:30–15:00 p. 414

Lightning (co-listed in AS)

Lecture Room 7 13:30–17:00 p. 416

Landslides, ground-failures and mass movements induced by earthquakes and volcanic activity (co-listed in GM)

Lecture Room 18 13:30–17:00 p. 418

Natural Hazards' Impact on Urban Areas and Infrastructure (co-listed in SM)

Lecture Room 16 (L) 13:30–19:00 p. 423

Propagation of uncertainty in advanced meteorological forecast systems (co-listed in AS)

Lecture Room 24 15:30–19:00 p. 416

Lightning (co-listed in AS) – Posters

Halls X/Y 17:30–19:00 p. 417

Remote sensing and geophysical techniques for investigating unstable slopes (co-listed in GM & GI) – Posters

Halls X/Y 17:30–19:00 p. 417

Landslides, ground-failures and mass movements induced by earthquakes and volcanic activity (co-listed in GM) – Posters

Halls X/Y 17:30–19:00 p. 418

Rainfall induced landslides and debris flows – Posters

Halls X/Y 17:30–19:00 p. 420

Mechanics of Mass Flows (co-listed in GM) – Posters

Halls X/Y 17:30–19:00 p. 420

Rock falls: Analysis, Simulation and Protection – Posters

Halls X/Y 17:30–19:00 p. 421

Seismic hazard evaluation, precursory phenomena and reliability of prediction – Posters

Halls X/Y 17:30–19:00 p. 422

NP: Nonlinear Processes in Geosciences

Dynamics of Seismicity Patterns and Earthquake Triggering (co-listed in SM)

Lecture Room 27 08:30–12:00 p. 425

Nonlinear time series analysis in the geosciences

Lecture Room 22 08:30–15:00 p. 426

Scale, Scaling, and nonlinearity in Solid Earth (co-listed in GMPV, NH, SSS & TS)

Lecture Room 27 13:30–16:15 p. 425

Ensemble prediction in hydrology (HEPEX) (co-listed in HS & NH)

Lecture Room 24 13:30–15:00 p. 427

Transport, Diffusion and Mixing in Geophysical flows – Posters

Halls X/Y 13:30–15:00 p. 428

Nonlinear Waves, Instabilities and Wave-flow interactions (co-listed in OS) – Posters

Halls X/Y 13:30–15:00 p. 428

Jets, Wakes and Vortices – Posters

Halls X/Y 13:30–15:00 p. 428

Turbulence in the Atmosphere and Ocean (co-listed in AS & OS) – Posters

Halls X/Y 13:30–15:00 p. 429

Simple dynamical models from data: a tool for parametrizations and diagnostics (co-listed in CL)

Lecture Room 22 15:30–16:45 p. 427

Scales and scaling in surface and subsurface hydrology (co-listed in HS)

Lecture Room 27 16:15–19:00 p. 426

Statistical analysis of paleoclimate time series (co-listed in CL)

Lecture Room 22 16:45–19:00 p. 427

OS: Ocean Sciences**Open session on coastal and shelf oceanography (co-listed BG)**

Lecture Room D 08:30–15:00 p. 429

Temporal variability of ocean temperature (heat content) and salinity (freshwater content). (co-listed CL)

Lecture Room D 15:30–17:00 p. 432

Open session on coastal and shelf oceanography (co-listed BG) – Posters

Halls X/Y 17:30–19:00 p. 430

IMBER/SOLAS Special Session (co-listed in AS, BG, CL & NP) – Posters

Halls X/Y 17:30–19:00 p. 431

Ocean Remote Sensing (colisted GD, CL) – Posters

Halls X/Y 17:30–19:00 p. 432

Temporal variability of ocean temperature (heat content) and salinity (freshwater content). (co-listed CL) – Posters

Halls X/Y 17:30–19:00 p. 432

Sensitivity of marine ecosystems and biogeochemical cycles to climate change (co-listed BG,NP, CL) – Posters

Halls X/Y 17:30–19:00 p. 433

Turbulent mixing in aquatic ecosystems - physical processes and ecosystem responses (co-listed in BG) – Posters

Halls X/Y 17:30–19:00 p. 433

PS: Planetary and Solar System Sciences**Open Session on Terrestrial Planets**

Lecture Room 11 08:30–15:00 p. 434

Exploring the Solar System - Missions and Techniques

Lecture Room 11 15:30–19:00 p. 434

Outer planets and satellites (including David Bates Medal Lecture)

Lecture Room 4 (H) 15:30–19:15 p. 435

SM: Seismology**Open session on seismology (including Beno Gutenberg Medal Lecture)**

Lecture Room 4 (H) 08:30–12:00 p. 436

Towards a European Reference Model

Lecture Room 4 (H) 13:30–15:00 p. 437

Topography of the Earth and Planets: from the deep Earth and planetary interiors to the surface – Posters

Hall A 13:30–15:00 p. 438

Topography of the Earth and Planets: from the deep Earth and planetary interiors to the surface

Lecture Room 26 15:30–19:15 p. 437

Open session on seismology (including Beno Gutenberg Medal Lecture) – Posters

Hall A 17:30–19:00 p. 436

Towards a European Reference Model – Posters

Hall A 17:30–19:00 p. 437

SSS: Soil System Sciences**Mineralogical and geochemical records of weathering and pedoplasation: from spatial to temporal scales (co-listed in GMPV)**

Lecture Room 33 08:30–10:00 p. 438

Soil remediation processes: New insights into the role of mineral surfaces and bioaccessibility of residues (co-listed in BG) (including Philippe Duchafour Medal Lecture)

Lecture Room 33 10:30–12:00 p. 441

Improving spatial predictions of soil erosion (co-listed in HS & GM)

Lecture Room 33 13:30–15:00 p. 439

Soil erosion assessment and integrated approaches for remediation (co-listed in HS & GM)

Lecture Room 33 15:30–17:00 p. 440

Mineralogical and geochemical records of weathering and pedoplasation: from spatial to temporal scales (co-listed in GMPV) – Posters

Hall A 17:30–19:00 p. 439

Improving spatial predictions of soil erosion (co-listed in HS & GM) – Posters

Hall A 17:30–19:00 p. 440

Soil erosion assessment and integrated approaches for remediation (co-listed in HS & GM) – Posters

Hall A 17:30–19:00 p. 441

Soil remediation processes: New insights into the role of mineral surfaces and bioaccessibility of residues (co-listed in BG) (including Philippe Duchafour Medal Lecture) – Posters

Hall A 17:30–19:00 p. 442

ST: Solar-Terrestrial Sciences

Open session on the magnetosphere (including Hannes Alfvén Medal Lecture)

Lecture Room 15 (F2) 08:30–19:00 p. 445

Modelling and measurements of ionospheric parameters influencing radio systems

Lecture Room 8 08:30–15:00 p. 446

The 3D heliosphere at solar minimum – Posters

Halls X/Y 10:30–12:00 p. 444

Open session on the Sun and heliosphere – Posters

Halls X/Y 13:30–15:00 p. 442

Oscillations of the solar interior and atmosphere – Posters

Halls X/Y 15:30–17:00 p. 444

The time varying Sun

Lecture Room 8 15:30–19:00 p. 444

SSP: Stratigraphy, Sedimentology and Palaeontology

Closing the gap between geological data and numerical modelling / Oxygen-18 in climate models, observations and palaeo-data (co-organized by CL)

Lecture Room 32 08:30–11:15 p. 449

Epeiric shelves - geochemistry, sedimentology, paleohydrology (co-sponsored by IAS) – Posters

Hall A 10:30–12:00 p. 450

The Messinian desiccation of the Mediterranean Sea, its causes, phenomena and consequences (co-listed in CL & TS) – Posters

Hall A 10:30–12:00 p. 450

Submarine Mass Movements and Their Consequences (co-listed in NH)

Lecture Room 32 11:15–15:00 p. 447

Cenozoic basin evolution and uplift of the Paratethys basin system (co-listed in TS)

Lecture Room 32 15:30–19:00 p. 448

Sedimentary cyclicity in basinal deposits: possible mechanisms (co-sponsored by IAS) – Posters

Hall A 17:30–19:00 p. 447

Submarine Mass Movements and Their Consequences (co-listed in NH) – Posters

Hall A 17:30–19:00 p. 448

Closing the gap between geological data and numerical modelling / Oxygen-18 in climate models, observations and palaeo-data (co-organized by CL) – Posters

Hall A 17:30–19:00 p. 449

TS: Tectonics and Structural Geology

Processes of rifting, sediment transport, fluid flow and biogenic activity: EUROMARGINS open session (co-organized by SSP) (co-listed in BG & CL)

Lecture Room 3 08:30–12:00 p. 452

The tectonics and dynamics of subduction: from shallow to deep processes

Lecture Room 5 (I) 08:30–12:00 p. 454

The strengths and challenges of analogue and numerical models (co-listed in GD) – Posters

Halls X/Y 13:30–15:00 p. 450

Quantitative Structural Geology: Comparison of model results with natural examples – Posters

Halls X/Y 13:30–17:00 p. 451

Failed vs. successful rifts: mechanisms for rift evolution

Lecture Room 3 13:30–15:00 p. 452

Orogen-basin coupling in intracontinental orogenic setting

Lecture Room 5 (I) 13:30–15:00 p. 453

Tectonic evolution of Tethys in the Eastern Mediterranean Region – Posters

Halls X/Y 13:30–17:00 p. 455

Middle East Basins Evolution – Posters

Halls X/Y 13:30–17:00 p. 456

Geodynamics, kinematics and crustal tectonics of the African/Arabian/Eurasian collision zone in the eastern Mediterranean/northern Arabian region (co-organized by GD & SM) – Posters

Halls X/Y 13:30–17:00 p. 457

Active Tectonics of the Circum-Adriatic Region – Posters

Halls X/Y 13:30–17:00 p. 458

Arc-continent collision orogens (including Stephan Mueller Medal Lecture)

Lecture Room 5 (I) 15:30–18:45 p. 453

Tectonics and magmatism: Interactions from the grain-to the orogen-scale

Lecture Room 3 15:30–17:00 p. 454

SC: EGU Short Courses

Vulkane: Gefahrenherd und Lebensspender (Children University in German)

Lecture Room D 12:00–13:30 p. ??

KL: Keynote Lectures

C.F. Gauss Lecture of the Deutsche Geophysikalische Gesellschaft (DGG)

Lecture Room 10 (E1) 19:00–20:00 p. 459

MEETING SCHEDULE

THURSDAY

US: Union Symposia

TOPO-EUROPE - 4-D Topography Evolution in Europe: Uplift, Subsidence and Sea Level Change (abstract submission by invitation only)

Lecture Room 25 08:30–19:00 p. 461

Earth and Space Science Informatics (ESSI): Standardization and Interoperability of Web Services across the Geosciences

Lecture Room 29 08:30–12:00 p. 462

The EC 7th RTD Framework Programme: addressing the challenges of global change

Lecture Room D 12:00–13:30 p. 462

ES: Educational Symposia

ECORD Teachers Workshop: Exploring the Ocean Floor with the Integrated Ocean Drilling Program

Lecture Room 9 (P) 08:30–12:00 p. 462

Integrating Activities in Environmental Science Education - Approaches and Perspectives

Lecture Room 9 (P) 13:30–17:00 p. 462

Integrating Activities in Environmental Science Education - Approaches and Perspectives – Posters

Halls X/Y 17:30–19:00 p. 463

AS: Atmospheric Sciences

Observation, Prediction and Verification of Precipitation (General Session) (co-listed in HS)

Lecture Room 10 (E1) 08:30–17:00 p. 463

The tropical tropopause region – Posters

Halls X/Y 08:30–12:00 p. 465

Joint Session of the MLT and the CAWSES program (co-organized by ST)

Lecture Room 12 (E2) 08:30–12:15 p. 466

Vertical and Long-Range Transport of Trace Gases and Aerosols

Lecture Room 1 (G) 08:30–12:00 p. 470

Reactive Halogen Compounds in the Lower and the Free Troposphere – Posters

Halls X/Y 10:30–12:00 p. 473

Megacity Impacts on Regional and Global Scales – Posters

Halls X/Y 10:30–12:00 p. 473

Recent developments in Geophysical Fluid Dynamics – Posters

Halls X/Y 13:30–15:00 p. 464

African Monsoon Multidisciplinary Analysis (AMMA) (co-listed in OS, BG, CL & SSS) – Posters

Halls X/Y 13:30–17:00 p. 468

Tropospheric Composition: Variability and Trends

Lecture Room 12 (E2) 13:30–17:00 p. 470

Vertical and Long-Range Transport of Trace Gases and Aerosols – Posters

Halls X/Y 13:30–17:00 p. 471

Reactive Halogen Compounds in the Lower and the Free Troposphere

Lecture Room 1 (G) 13:30–17:00 p. 472

Recent developments in Geophysical Fluid Dynamics

Lecture Room 29 15:30–17:15 p. 464

Joint Session of the MLT and the CAWSES program (co-organized by ST) – Posters

Halls X/Y 15:30–17:00 p. 467

BG: Biogeosciences

Calibration and validation of marine and terrestrial proxies: from empiricism towards a mechanistic understanding (co-organized by CL) (co-listed in SSP)

Lecture Room 20 (N) 08:30–10:00 p. 474

Methane fluxes on continental margins: ecosystems, drivers and controls (co-listed in CL)

Lecture Room 19 08:30–15:00 p. 477

Environmental Micropaleontology: microfossils as proxies of recent and past environmental change (co-listed in CL) – Posters

Foyer BG 10:30–12:00 p. 475

Environmental Micropaleontology: microfossils as proxies of recent and past environmental change (co-listed in CL)

Lecture Room 20 (N) 13:30–17:00 p. 475

Calibration and validation of marine and terrestrial proxies: from empiricism towards a mechanistic understanding (co-organized by CL) (co-listed in SSP) – Posters

Foyer BG 15:30–17:00 p. 474

Ecosystems of the deep sea-floor and their geological drivers (co-listed in SSP, OS & CL)

Lecture Room 19 15:30–17:00 p. 476

Methane fluxes on continental margins: ecosystems, drivers and controls (co-listed in CL) – Posters

Foyer BG 15:30–17:00 p. 478

CL: Climate: Past, Present, Future

Climate and ocean dynamics from high-resolution marine archives (co-listed in OS)

Lecture Room 14 08:30–10:00 p. 480

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Anthropogenic climate changes: forcing, modelling, detection and impact (co-listed in ERE)

Lecture Room 13 (F1)	08:30–15:00	p. 483
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Past atmospheric circulation

Lecture Room 14	10:30–12:00	p. 479
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Observing climate change and variability from space: achievements and challenges – Posters

Halls X/Y	13:30–15:00	p. 482
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Aeolian dust as a player and recorder of environmental change (co-listed in GM & SSP, co-sponsored by IAS)

Lecture Room 14	13:30–15:15	p. 485
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Monsoon climates - variability, changes and paleo-perspectives

Lecture Room 14	15:30–17:00	p. 481
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Observing climate change and variability from space: achievements and challenges

Lecture Room 13 (F1)	15:30–19:00	p. 482
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Past atmospheric circulation – Posters

Halls X/Y	17:30–19:00	p. 479
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Climate and ocean dynamics from high-resolution marine archives (co-listed in OS) – Posters

Halls X/Y	17:30–19:00	p. 480
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Monsoon climates - variability, changes and paleo-perspectives – Posters

Halls X/Y	17:30–19:00	p. 481
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Anthropogenic climate changes: forcing, modelling, detection and impact (co-listed in ERE) – Posters

Halls X/Y	17:30–19:00	p. 484
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Aeolian dust as a player and recorder of environmental change (co-listed in GM & SSP, co-sponsored by IAS) – Posters

Halls X/Y	17:30–19:00	p. 485
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CR: Cryospheric Sciences**Ice sheet - climate interactions (co-listed in CL)**

Lecture Room 4 (H)	08:30–10:00	p. 487
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Observations of glaciers and ice sheets from space (co-listed in G & CL)

Lecture Room 4 (H)	10:30–12:30	p. 486
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Subglacial environments – properties and processes influencing ice dynamics

Lecture Room 29	13:30–15:00	p. 489
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Modelling ice sheets and glaciers – Posters

Hall A	15:30–17:00	p. 488
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Subglacial environments – properties and processes influencing ice dynamics – Posters

Hall A	15:30–17:00	p. 489
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Observations of glaciers and ice sheets from space (co-listed in G & CL) – Posters

Hall A	17:30–19:00	p. 486
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Ice sheet - climate interactions (co-listed in CL) – Posters

Hall A	17:30–19:00	p. 487
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ERE: Energy, Resources and the Environment**Renewable resources in general – Posters**

Halls X/Y	10:30–12:00	p. 490
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Natural stone resources for historical monuments – Posters

Halls X/Y	10:30–15:00	p. 491
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Climate change impact on economical and industrial activities (co-listed in CL) – Posters

Halls X/Y	13:30–15:00	p. 491
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Integrated assessment of energy options and risk assessment methodologies (co-listed in CL) – Posters

Halls X/Y	13:30–15:00	p. 491
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Advances in CO2 storage in geological systems – Posters

Halls X/Y	15:30–19:00	p. 490
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Aggregates – the most widely used geological material – Posters

Halls X/Y	15:30–17:00	p. 492
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GMPV: Geochemistry, Mineralogy, Petrology & Volcanology**New monitoring techniques applied to active volcanoes**

Lecture Room 21 (O)	08:30–12:00	p. 493
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Volcanic and non-volcanic Earth degassing – Posters

Hall A	08:30–12:00	p. 495
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New monitoring techniques applied to active volcanoes – Posters

Hall A	13:30–19:00	p. 494
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Volcanic and non-volcanic Earth degassing

Lecture Room 21 (O)	13:30–17:00	p. 494
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The mantle perspective: compositional and rheological constraints on lithosphere evolution – Posters

Hall A	13:30–17:00	p. 496
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The mantle perspective: compositional and rheological constraints on lithosphere evolution

Lecture Room 21 (O)	17:30–19:00	p. 496
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G: Geodesy**Monitoring of the troposphere and ionosphere by space geodetic techniques**

Lecture Room 6 (K)	08:30–12:00	p. 497
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Advances in GPS and InSAR techniques for geodynamic modelling and analysis of natural hazard (co-organized by G) (co-listed in GD) – Posters

Halls X/Y	10:30–12:00	p. 500
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Advances in GPS and InSAR techniques for geodynamic modelling and analysis of natural hazard (co-organized by G) (co-listed in GD)

Lecture Room 6 (K)	13:30–19:00	p. 499
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What constraints do earth rotation, shape, and gravity measurements place on the dynamical processes of the solid earth? (co-organized by GD) – Posters

Halls X/Y 17:30–19:00 p. 497

Monitoring of the troposphere and ionosphere by space geodetic techniques – Posters

Halls X/Y 17:30–19:00 p. 498

Geodetic observations for the International Polar Year (co-listed in CR) – Posters

Halls X/Y 17:30–19:00 p. 500

GD: Geodynamics

Geodynamics and Geochemistry of the Early Earth (co-listed in TS & GMPV) – Posters

Hall A 08:30–12:00 p. 501

Dynamics and Thermal Structure of Subduction Zones – Posters

Hall A 08:30–12:00 p. 502

Potential Fields in Geodynamics and Geostatics – Posters

Hall A 08:30–12:00 p. 504

Cretaceous-Tertiary Plate Kinematics, Continental Breakup and Sea-Floor Spreading History of the Northern North Atlantic and Arctic Ocean

Lecture Room 23 08:30–12:00 p. 504

The Origins of Melting Anomalies – Posters

Hall A 13:30–17:00 p. 501

Ice-Mass Fluctuations and the Dynamical Responses of the Solid Earth (co-organized by G) – Posters

Hall A 13:30–17:00 p. 503

Ice-Mass Fluctuations and the Dynamical Responses of the Solid Earth (co-organized by G) – Posters

Hall A 13:30–17:00 p. 503

Potential Fields in Geodynamics and Geostatics

Lecture Room 23 13:30–17:00 p. 503

GM: Geomorphology

Deep Alpine Valleys: recording the topographic, climatic and tectonic evolution of mountain belts (co-listed in CL)

Lecture Room 17 (M) 08:30–12:00 p. 506

Quaternary Landscape Evolution and Paleo-Geocology (co-listed in CL)

Lecture Room 7 10:30–12:00 p. 507

Monitoring and modelling in periglacial and glacial geomorphology (co-listed in CR & CL)

Lecture Room 17 (M) 13:30–17:00 p. 505

Quantifying and modelling human and climate controlled sediment dynamics (co-listed in CL)

Lecture Room 7 13:30–17:00 p. 508

Monitoring and modelling in periglacial and glacial geomorphology (co-listed in CR & CL) – Posters

Halls X/Y 17:30–19:00 p. 505

Deep Alpine Valleys: recording the topographic, climatic and tectonic evolution of mountain belts (co-listed in CL) – Posters

Halls X/Y 17:30–19:00 p. 507

Quaternary Landscape Evolution and Paleo-Geocology (co-listed in CL) – Posters

Halls X/Y 17:30–19:00 p. 507

Quantifying and modelling human and climate controlled sediment dynamics (co-listed in CL) – Posters

Halls X/Y 17:30–19:00 p. 509

GEOMATICS applications in GEOMORPHOLOGY: new technologies for the improvement of an "old" science – Posters

Halls X/Y 17:30–19:00 p. 509

GI: Geosciences Instrumentation and Data Systems

Space Instrumentation (co-listed in PS, ST, AS, G & OS)

Lecture Room 2 08:30–12:00 p. 510

Planetary Landers and Instrumentation (co-organized by PS)

Lecture Room 2 13:30–15:00 p. 511

Planetary Imaging Systems - Design, Implementation, and Results (co-organized by PS, co-listed in ST)

Lecture Room 2 15:30–19:00 p. 510

HS: Hydrological Sciences

Hydrogeophysics in subsurface hydrology

Lecture Room 28 (B) 08:30–12:00 p. 512

Lakes and inland seas under anthropogenic impact and climate change (co-listed in CL & ERE)

Lecture Room 30 (C) 08:30–12:30 p. 515

Objective and process-based catchment classification as a tool for predictions in ungauged basins

Lecture Room 31 08:30–12:00 p. 517

Subsurface flow, solute transport, and energy processes: concepts, modelling, and observations

Lecture Room 28 (B) 13:30–17:00 p. 511

Hydrological, chemical and biological processes in rivers and riparian zones (co-listed in BG & GM) – Posters

Hall A 13:30–15:00 p. 514

Lakes and inland seas under anthropogenic impact and climate change (co-listed in CL & ERE) – Posters

Hall A 13:30–15:00 p. 515

Catchment structure and connectivity (co-listed in GM, BG & SSS)

Lecture Room 31 13:30–17:00 p. 516

Objective and process-based catchment classification as a tool for predictions in ungauged basins – Posters

Hall A 13:30–15:00 p. 518

Hydrological extremes: controls, spatial & temporal variability and regional patterns

Lecture Room 30 (C) 13:30–17:30 p. 518

Integrated water resources assessment, with special focus on developing countries – Posters

Hall A 13:30–15:00 p. 519

Instruments for integrated and transboundary water resources management – Posters

Hall A 13:30–15:00 p. 520

Hydrogeophysics in subsurface hydrology – Posters

Hall A 15:30–17:00 p. 512

Geothermal energy and brine transport – Posters

Hall A 15:30–17:00 p. 513

IG: Isotopes in Geosciences: Instrumentation and Applications

Instrumentation for Stable and Radiogenic Isotopes (co-organized by GI)

Lecture Room 34 08:30–12:15 p. 520

Instrumentation for Stable and Radiogenic Isotopes (co-organized by GI) – Posters

Hall A 15:30–17:00 p. 521

MPRG: Magnetism, Palaeomagnetism, Rock Physics & Geomaterials

Magnetic field observation: where have we been and where are we going? – Posters

Hall A 08:30–12:00 p. 523

Time variations in the geomagnetic field (co-listed in GD) – Posters

Hall A 10:30–12:00 p. 522

Magnetic field observation: where have we been and where are we going?

Lecture Room 34 13:30–15:00 p. 522

Time variations in the geomagnetic field (co-listed in GD)

Lecture Room 34 15:30–17:00 p. 522

NH: Natural Hazards

Propagation of uncertainty in advanced meteorological forecast systems (co-listed in AS)

Lecture Room 24 08:30–10:00 p. 523

Integrated Natural Hazard Protection (floods and mass movement): Structural and nonstructural measures – state-of-the-art (co-listed in HS)

Lecture Room 18 08:30–12:00 p. 525

Landslides and erosion monitoring and characterization using high resolution DEM, LIDAR and other DEM techniques

Lecture Room 27 08:30–12:00 p. 526

Deformation processes and accompanying mechanical and electromagnetic phenomena, for rocks and other materials, from the laboratory to the geophysical scale

Lecture Room 16 (L) 08:30–12:00 p. 529

Propagation of uncertainty in advanced meteorological forecast systems (co-listed in AS) – Posters

Halls X/Y 10:30–12:00 p. 523

Geo-Databases and Information Systems for Natural Hazards and Risk Assessment

Lecture Room 24 10:30–12:00 p. 533

Operational tools for flash-flood forecasting (co-listed in HS)

Lecture Room 18 13:30–15:00 p. 524

The role of vegetation in slope stability

Lecture Room 27 13:30–17:00 p. 527

Electric, magnetic and electromagnetic phenomena related to earthquakes (co-listed in SM)

Lecture Room 16 (L) 13:30–19:00 p. 528

Extreme Sea Waves (co-listed in OS) (including Plinius Medal Lecture)

Lecture Room 24 13:30–17:00 p. 530

Risk assessments of complex flood situations (co-listed in HS)

Lecture Room 18 15:30–17:00 p. 525

Coastal geohazards – Posters

Halls X/Y 15:30–17:00 p. 532

Economic aspects and societal decision making in hazards and risk management – Posters

Halls X/Y 15:30–17:00 p. 533

Uncertainty and non stationarity in flood risk predictions (co-listed in HS)

Lecture Room 18 17:30–19:00 p. 525

Landslides and erosion monitoring and characterization using high resolution DEM, LIDAR and other DEM techniques – Posters

Halls X/Y 17:30–19:00 p. 526

The role of vegetation in slope stability – Posters

Halls X/Y 17:30–19:00 p. 527

Tsunamis (co-listed in OS) – Posters

Halls X/Y 17:30–19:00 p. 529

Extreme Sea Waves (co-listed in OS) (including Plinius Medal Lecture) – Posters

Halls X/Y 17:30–19:00 p. 531

Vulnerability assessments and spatial/temporal variability of natural hazards risk – Posters

Halls X/Y 17:30–19:00 p. 532

Geo-Databases and Information Systems for Natural Hazards and Risk Assessment – Posters

Halls X/Y 17:30–19:00 p. 533

NP: Nonlinear Processes in Geosciences

Quantifying predictability

Lecture Room 22 08:30–11:15 p. 535

Data assimilation in the presence of nonlinearities (co-listed in AS)

Lecture Room 22 11:15–17:30 p. 535

Earthquake prediction: what can be done with the best science available? (co-organized by US) (co-listed in NH & SM)

Lecture Room 4 (H) 13:30–18:15 p. 534

Nonlinear geophysical fluid dynamics – Posters

Halls X/Y 13:30–15:00 p. 537

Nonlinear cryospheric dynamics (co-organized by NP and CR) – Posters

Halls X/Y 15:30–17:00 p. 534

Astrophysical Turbulence and Shocks, Plasmas and High Mach Number Flows (co-listed in PS) – Posters

Halls X/Y 15:30–17:00 p. 536

Turbulence and dispersion in particle-laden geophysical flows: theory and models (co-listed in HS & SSP) – Posters

Halls X/Y 15:30–17:00 p. 536

Frontiers in Nonlinear Processes in Geosciences (co-organized by US) (including Lewis Fry Richardson Medal Lecture)

Lecture Room 4 (H) 18:15–20:30 p. 534

OS: Ocean Sciences

Ocean Tracers and Anthropogenic CO₂ (co-listed in BG & CL)

Lecture Room D 08:30–12:00 p. 537

Operational Oceanography: Skill Assessment and Error Analysis (co-listed GI, NP)

Lecture Room 3 08:30–12:00 p. 538

Fate of riverine matter in marine environments: pathways, feedbacks, characterization and quantification (co-listed in BG)

Lecture Room 7 08:30–10:00 p. 538

Model development for large- and small-scale processes in the ocean (co-listed NP) – Posters

Halls X/Y 10:30–12:00 p. 539

Model development for large- and small-scale processes in the ocean (co-listed NP)

Lecture Room D 13:30–19:00 p. 539

PS: Planetary and Solar System Sciences

Exploring the Solar System - Missions and Techniques – Posters

Halls X/Y 08:30–12:00 p. 540

Outer planets and satellites (including David Bates Medal Lecture)

Lecture Room 15 (F2) 08:30–15:15 p. 541

Extrasolar Planets and Planet Formation Session

Lecture Room 8 08:30–12:15 p. 544

Planetary, Solar and Heliospheric Radio Emissions

Lecture Room 8 13:30–17:00 p. 543

Extrasolar Planets and Planet Formation Session – Posters

Halls X/Y 13:30–15:00 p. 545

Lunar science and exploration – Posters

Halls X/Y 15:30–17:00 p. 541

Satellites and rings

Lecture Room 15 (F2) 15:30–19:15 p. 542

Connections in the Solar System - Space Weather – Posters

Halls X/Y 15:30–17:00 p. 543

Atmospheric and water loss from early Mars and its implication for the origin of life – Posters

Halls X/Y 15:30–17:00 p. 545

Connections in the Solar System - Space Weather

Lecture Room 8 17:30–19:30 p. 543

SM: Seismology

Physics and Mechanics of Earthquakes and Faulting (co-organized by MPRG & TS)

Lecture Room 26 08:30–12:00 p. 547

Research and Development in Nuclear Explosion Monitoring (co-listed in AS)

Lecture Room 26 13:30–17:00 p. 545

Research and Development in Nuclear Explosion Monitoring (co-listed in AS) – Posters

Hall A 17:30–19:00 p. 546

Physics and Mechanics of Earthquakes and Faulting (co-organized by MPRG & TS) – Posters

Hall A 17:30–19:00 p. 547

SSS: Soil System Sciences

Soil genesis, soil quality, biological indicators and soil functions, including education (co-listed in BG)

Lecture Room 33 08:30–12:00 p. 548

The mechanisms, especially diffusion, by which soil organic matter influences chemical fate: Chromium as a case study (co-listed in BG)

Lecture Room 33 13:30–15:00 p. 551

Hydropedology: A synergistic tool to shape EU guidelines for water and soil (co-listed in HS)

Lecture Room 33 15:30–17:00 p. 552

Soil genesis, soil quality, biological indicators and soil functions, including education (co-listed in BG) – Posters

Hall A 17:30–19:00 p. 549

Organic soils, processes, mechanisms and utilization (co-listed in BG) – Posters

Hall A 17:30–19:00 p. 550

The mechanisms, especially diffusion, by which soil organic matter influences chemical fate: Chromium as a case study (co-listed in BG) – Posters

Hall A 17:30–19:00 p. 551

Hydropedology: A synergistic tool to shape EU guidelines for water and soil (co-listed in HS) – Posters

Hall A 17:30–19:00 p. 552

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ST: Solar-Terrestrial Sciences**Sources and sinks of energy in the substorm cycle**

Lecture Room 11 08:30–10:00 p. 554

Coupling between regions and scales: the future is multipoint and multi-instrument

Lecture Room 11 10:30–19:00 p. 553

Open session on the ionosphere and thermosphere including connections to regions above and below – Posters

Halls X/Y 10:30–12:00 p. 554

The time varying Sun – Posters

Halls X/Y 13:30–15:00 p. 552

Modelling and measurements of ionospheric parameters influencing radio systems – Posters

Halls X/Y 13:30–15:00 p. 556

Solar, heliospheric and atmospheric coupling with near-Earth space – Posters

Halls X/Y 15:30–17:00 p. 556

Oscillations of the solar interior and atmosphere

Lecture Room 7 17:30–19:15 p. 552

SSP: Stratigraphy, Sedimentology and Palaeontology**Reconstructing the Cretaceous World: Integration of data from the Boreal, Tethys, deep sea and the continents (co-listed in CL)**

Lecture Room 32 08:30–12:00 p. 559

New proxies in sedimentary geochemistry (co-organized by BG, co-listed in IG & CL)

Lecture Room 20 (N) 10:30–12:00 p. 557

New proxies in sedimentary geochemistry (co-organized by BG, co-listed in IG & CL) – Posters

Hall A 13:30–15:00 p. 557

Environmental perturbations during the Palaeozoic-Mesozoic interval: Organic geochemical and palynological proxies (co-organized by BG & CL)

Lecture Room 32 13:30–15:00 p. 558

Microbial Carbonates (co-sponsored by IAS and co-organized by BG)

Lecture Room 32 15:30–17:00 p. 557

Dynamics of Sedimentary Basins - Evolution, Salt- and Fluid Dynamic (co-listed in GD & TS) – Posters

Hall A 17:30–19:00 p. 556

Environmental perturbations during the Palaeozoic-Mesozoic interval: Organic geochemical and palynological proxies (co-organized by BG & CL) – Posters

Hall A 17:30–19:00 p. 558

Paleo-environmental indicators in carbonate systems (co-sponsored by IAS)

Lecture Room 32 17:30–19:00 p. 559

Reconstructing the Cretaceous World: Integration of data from the Boreal, Tethys, deep sea and the continents (co-listed in CL) – Posters

Hall A 17:30–19:00 p. 559

TS: Tectonics and Structural Geology**Tectonic evolution of Tethys in the Eastern Mediterranean Region**

Lecture Room 5 (I) 08:30–12:00 p. 562

Tectonics and magmatism during continental rifting and break-up

Lecture Room 3 13:30–17:00 p. 560

The influence of pre-existing structures upon the development and evolution of geological architectures – Posters

Halls X/Y 13:30–17:00 p. 561

Geodynamics, kinematics and crustal tectonics of the African/Arabian/Eurasian collision zone in the eastern Mediterranean/northern Arabian region (co-organized by GD & SM)

Lecture Room 5 (I) 13:30–19:00 p. 562

ML: Medal Lectures**Henry Darcy Medal Lecture**

Lecture Room 30 (C) 18:30–19:30 p. 563

Petrus Peregrinus Medal Lecture

Lecture Room 5 (I) 19:00–20:00 p. 563

Jean Baptiste Lamarck Medal Lecture

Lecture Room 2 19:00–20:00 p. 563

MEETING SCHEDULE

FRIDAY

ES: Educational Symposia

Integrating Activities in Environmental Science Education - Approaches and Perspectives

Lecture Room 9 (P) 08:30–12:00 p. 565

Sharing Education and Outreach Experiences in the Earth- and Space Sciences

Lecture Room 9 (P) 13:30–17:00 p. 565

Sharing Education and Outreach Experiences in the Earth- and Space Sciences – Posters

Halls X/Y 17:30–19:00 p. 565

AS: Atmospheric Sciences

Variability and predictability of the coupled stratosphere-troposphere system (co-listed in CL)

Lecture Room 1 (G) 08:30–10:15 p. 566

Gravity waves (co-listed in OS) – Posters

Halls X/Y 08:30–10:00 p. 567

African Monsoon Multidisciplinary Analysis (AMMA) (co-listed in OS, BG, CL & SSS)

Lecture Room 10 (E1) 08:30–17:00 p. 567

Gas Phase Composition and Reactivity (General Session) – Posters

Halls X/Y 08:30–10:00 p. 570

Tropospheric Composition: Variability and Trends

Lecture Room 12 (E2) 08:30–10:00 p. 571

Polar Ozone – Posters

Halls X/Y 08:30–10:00 p. 573

Stratospheric Dynamics and Ozone

Lecture Room 1 (G) 10:30–12:00 p. 568

Gas Phase Composition and Reactivity (General Session)

Lecture Room 12 (E2) 10:30–15:00 p. 569

Tropospheric Composition: Variability and Trends – Posters

Halls X/Y 10:30–15:00 p. 572

Variability and predictability of the coupled stratosphere-troposphere system (co-listed in CL) – Posters

Halls X/Y 13:30–15:00 p. 566

Gravity waves (co-listed in OS)

Lecture Room 1 (G) 13:30–17:00 p. 566

Stratospheric Dynamics and Ozone – Posters

Halls X/Y 13:30–15:00 p. 569

Polar Ozone

Lecture Room 12 (E2) 15:30–17:00 p. 573

BG: Biogeosciences

From biogenic primary exchange to atmospheric fluxes of reactive trace gases

Lecture Room 19 08:30–12:00 p. 574

Biogeochemical interactions in chemosynthetic deep-sea ecosystems: methods, tools and strategies (co-listed in OS)

Lecture Room 20 (N) 08:30–10:00 p. 576

Methane fluxes from permafrost ecosystems in relation to climate change

Lecture Room 20 (N) 10:30–12:00 p. 575

Biogeochemical interactions in chemosynthetic deep-sea ecosystems: methods, tools and strategies (co-listed in OS) – Posters

Foyer BG 10:30–12:00 p. 577

Astrobiology, Mars and robotic exploration (co-organized by PS) – Posters

Foyer BG 10:30–12:00 p. 578

Astrobiology, Mars and robotic exploration (co-organized by PS)

Lecture Room 19 13:00–17:15 p. 577

From biogenic primary exchange to atmospheric fluxes of reactive trace gases – Posters

Foyer BG 13:30–15:00 p. 574

Methane fluxes from permafrost ecosystems in relation to climate change – Posters

Foyer BG 13:30–15:00 p. 575

Biogeochemistry and ecohydrology of arid and semi-arid ecosystems (co-listed in HS)

Lecture Room 20 (N) 13:30–15:00 p. 576

Biogeochemistry and ecohydrology of arid and semi-arid ecosystems (co-listed in HS) – Posters

Foyer BG 15:30–17:00 p. 576

CL: Climate: Past, Present, Future

Mediterranean Climate Variability / Black Sea-Mediterranean Corridor during last 30 ky: Sea level change and human adaptation

Lecture Room 25 08:30–15:00 p. 580

Climatic Extremes and their Impacts (co-listed in HS & ERE) / Mid-latitude cyclones: processes, variability, changes and impacts

Lecture Room 13 (F1) 08:30–15:00 p. 584

Applied Quaternary Geochronology (co-listed in GM) / High-resolution radiocarbon chronologies - methods and applications

Lecture Room 14 08:30–10:00 p. 587

Assessment of climate events in lake sediments

Lecture Room 14 10:30–12:00 p. 579

Physical and Biogeochemical feedbacks in the Climate System (co-listed in BG) – Posters

Halls X/Y 10:30–12:00 p. 583

Applied Quaternary Geochronology (co-listed in GM) / High-resolution radiocarbon chronologies - methods and applications – Posters

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Assessment of climate events in lake sediments – Posters

Halls X/Y 13:30–17:00 p. 580

Physical and Biogeochemical feedbacks in the Climate System (co-listed in BG)

Lecture Room 14 13:30–17:00 p. 583

(Sub)Arctic Ocean circulation and climate change - natural and anthropogenic forcing (co-listed in OS) – Posters

Halls X/Y 13:30–17:00 p. 586

Mediterranean Climate Variability / Black Sea-Mediterranean Corridor during last 30 ky: Sea level change and human adaptation – Posters

Halls X/Y 15:30–17:00 p. 581

Climatic Extremes and their Impacts (co-listed in HS & ERE) / Mid-latitude cyclones: processes, variability, changes and impacts – Posters

Halls X/Y 15:30–17:00 p. 585

(Sub)Arctic Ocean circulation and climate change - natural and anthropogenic forcing (co-listed in OS)

Lecture Room 13 (F1) 15:30–17:00 p. 586

CR: Cryospheric Sciences**Modelling ice sheets and glaciers**

Lecture Room 4 (H) 08:30–12:30 p. 588

ERE: Energy, Resources and the Environment**Archaeometry: The use of geoscientific techniques to probe the archaeological environment**

Lecture Room 2 08:30–10:00 p. 590

Wind Power Meteorology – Posters

Halls X/Y 10:30–12:00 p. 589

Aggregates – the most widely used geological material

Lecture Room 2 10:30–12:00 p. 590

Archaeometry: The use of geoscientific techniques to probe the archaeological environment – Posters

Halls X/Y 10:30–12:00 p. 591

Wind Power Meteorology

Lecture Room 27 13:30–17:00 p. 588

Natural stone resources for historical monuments

Lecture Room 2 13:30–17:00 p. 590

GMPV: Geochemistry, Mineralogy, Petrology & Volcanology**Precipitation and Dissolution of Carbonates**

Lecture Room 21 (O) 08:30–10:00 p. 591

Behavior of substance at extreme conditions in nature and laboratory – Posters

Hall A 08:30–12:00 p. 593

Metamorphic and magmatic consequences of ultra-deep subduction – Posters

Hall A 08:30–15:00 p. 594

CO₂ Geological Sequestration: bio-mechano-geochemical processes from the pore-scale to the reservoir-scale

Lecture Room 21 (O) 10:30–12:00 p. 592

Precipitation and Dissolution of Carbonates – Posters

Hall A 13:30–19:00 p. 591

Behavior of substance at extreme conditions in nature and laboratory

Lecture Room 21 (O) 13:30–15:00 p. 593

Metamorphic and magmatic consequences of ultra-deep subduction

Lecture Room 21 (O) 15:30–19:00 p. 594

CO₂ Geological Sequestration: bio-mechano-geochemical processes from the pore-scale to the reservoir-scale – Posters

Hall A 17:30–19:00 p. 592

G: Geodesy**What constraints do earth rotation, shape, and gravity measurements place on the dynamical processes of the solid earth? (co-organized by GD)**

Lecture Room 6 (K) 08:30–12:00 p. 595

GD: Geodynamics**The Origins of Melting Anomalies**

Lecture Room 23 08:30–15:00 p. 595

Cretaceous-Tertiary Plate Kinematics, Continental Breakup and Sea-Floor Spreading History of the Northern North Atlantic and Arctic Ocean – Posters

Hall A 08:30–12:00 p. 596

GM: Geomorphology**GEOMATICS applications in GEOMORPHOLOGY: new technologies for the improvement of an "old" science**

Lecture Room 17 (M) 08:30–12:00 p. 596

GI: Geosciences Instrumentation and Data Systems**Informatics: distributed information systems - technology and applications (co-listed in AS, CL, G, CR, GD, GM, GMPV, HS, MPRG, OS, PS, ST, SM, TS, SSP, SSS & NH)**

Lecture Room 29 08:30–15:00 p. 598

Space Instrumentation (co-listed in PS, ST, AS, G & OS) – Posters

Halls X/Y 10:30–12:00 p. 597

Planetary Imaging Systems - Design, Implementation, and Results (co-organized by PS, co-listed in ST) – Posters

Halls X/Y 10:30–12:00 p. 598

Planetary Landers and Instrumentation (co-organized by PS) – Posters

Halls X/Y 10:30–12:00 p. 598

Informatics: distributed information systems - technology and applications (co-listed in AS, CL, G, CR, GD, GM, GMPV, HS, MPRG, OS, PS, ST, SM, TS, SSP, SSS & NH) – Posters

Halls X/Y 15:30–17:00 p. 599

HS: Hydrological Sciences

Experimental river basins

Lecture Room 30 (C) 08:30–12:00 p. 604

Climate-soil and vegetation interactions in ecological-hydrological processes (co-listed in AS, CL, NP & SSS)

Lecture Room 28 (B) 08:30–12:15 p. 605

Stochastic-dynamic modelling of precipitation (co-listed in NP & AS)

Lecture Room 31 08:30–10:00 p. 609

Subsurface flow, solute transport, and energy processes: concepts, modelling, and observations – Posters

Hall A 10:30–12:00 p. 600

Monitoring and modelling for soil and ecohydrological processes across landscape elements – Posters

Hall A 10:30–12:00 p. 602

Catchment structure and connectivity (co-listed in GM, BG & SSS) – Posters

Hall A 10:30–12:00 p. 603

Calibration, data assimilation, and uncertainty estimation of spatially distributed and integrated catchment models – Posters

Hall A 10:30–12:00 p. 607

Hydrological extremes: controls, spatial & temporal variability and regional patterns – Posters

Hall A 10:30–12:00 p. 608

Novel techniques for measuring rainfall micro- and macro-structure (co-listed in AS & NH)

Lecture Room 31 10:30–12:00 p. 610

Modelling and observation of hydrological and biological processes in West Africa (co-listed in BG) – Posters

Hall A 10:30–12:00 p. 612

Monitoring and modelling for soil and ecohydrological processes across landscape elements

Lecture Room 28 (B) 13:30–17:00 p. 601

Experimental river basins – Posters

Hall A 13:30–15:00 p. 604

Climate-soil and vegetation interactions in ecological-hydrological processes (co-listed in AS, CL, NP & SSS) – Posters

Hall A 13:30–15:00 p. 606

Calibration, data assimilation, and uncertainty estimation of spatially distributed and integrated catchment models

Lecture Room 30 (C) 13:30–17:00 p. 607

Statistical concepts in understanding and modelling hydro-climatic change (co-listed in NP, CL and AS)

Lecture Room 31 13:30–15:00 p. 611

Stochastic-dynamic modelling of precipitation (co-listed in NP & AS) – Posters

Hall A 15:30–17:00 p. 609

Novel techniques for measuring rainfall micro- and macro-structure (co-listed in AS & NH) – Posters

Hall A 15:30–17:00 p. 610

Statistical concepts in understanding and modelling hydro-climatic change (co-listed in NP, CL and AS) – Posters

Hall A 15:30–17:00 p. 611

Modelling and observation of hydrological and biological processes in West Africa (co-listed in BG)

Lecture Room 31 15:30–17:00 p. 612

MPRG: Magnetism, Palaeomagnetism, Rock Physics & Geomaterials

Open session in rock magnetism and paleomagnetism

Lecture Room 34 08:30–15:00 p. 613

NH: Natural Hazards

Operational tools for flash-flood forecasting (co-listed in HS) – Posters

Halls X/Y 08:30–10:00 p. 613

Uncertainty and non stationarity in flood risk predictions (co-listed in HS) – Posters

Halls X/Y 08:30–10:00 p. 614

Estimating landslide hazards and risk (co-listed in GM)

Lecture Room 18 08:30–12:00 p. 615

Volcanic Hazards: pre-eruptive warnings, quantification of hazards and mitigation of risk (co-listed in GMPV)

Lecture Room 16 (L) 08:30–12:00 p. 618

Tsunamis (co-listed in OS)

Lecture Room 24 08:30–17:00 p. 619

Economic aspects and societal decision making in hazards and risk management

Lecture Room 27 08:30–12:00 p. 620

Risk assessments of complex flood situations (co-listed in HS) – Posters

Halls X/Y 10:30–12:00 p. 614

Integrated Natural Hazard Protection (floods and mass movement): Structural and nonstructural measures – state-of-the-art (co-listed in HS) – Posters

Halls X/Y 10:30–12:00 p. 615

Tree-ring reconstructions in natural hazards research – Posters

Halls X/Y 10:30–12:00 p. 622

Estimating landslide hazards and risk (co-listed in GM) – Posters

Halls X/Y 13:30–15:00 p. 616

Electric, magnetic and electromagnetic phenomena related to earthquakes (co-listed in SM) – Posters

Halls X/Y 13:30–15:00 p. 616

Deformation processes and accompanying mechanical and electromagnetic phenomena, for rocks and other materials, from the laboratory to the geophysical scale – Posters

Halls X/Y 13:30–15:00 p. 617

Volcanic Hazards: pre-eruptive warnings, quantification of hazards and mitigation of risk (co-listed in GMPV) – Posters

Halls X/Y 13:30–15:00 p. 618

Vulnerability assessments and spatial/temporal variability of natural hazards risk

Lecture Room 18 13:30–17:00 p. 620

Tree-ring reconstructions in natural hazards research

Lecture Room 16 (L) 13:30–17:00 p. 621

NP: Nonlinear Processes in Geosciences

Nonlinear geophysical fluid dynamics

Lecture Room 22 08:30–12:00 p. 623

Turbulence and dispersion in particle-laden geophysical flows: theory and models (co-listed in HS & SSP)

Lecture Room 22 13:30–15:00 p. 623

Nonlinear cryospheric dynamics (co-organized by NP and CR)

Lecture Room 3 15:30–17:00 p. 622

Astrophysical Turbulence and Shocks, Plasmas and High Mach Number Flows (co-listed in PS)

Lecture Room 22 15:30–19:00 p. 622

OS: Ocean Sciences

Sensitivity of marine ecosystems and biogeochemical cycles to climate change (co-listed BG, NP, CL)

Lecture Room D 08:30–12:00 p. 624

IMBER/SOLAS Special Session (co-listed in AS, BG, CL & NP)

Lecture Room D 13:30–17:00 p. 623

Ocean Remote Sensing (colisted GD, CL)

Lecture Room 6 (K) 13:30–17:00 p. 624

PS: Planetary and Solar System Sciences

Outer planets and satellites (including David Bates Medal Lecture) – Posters

Halls X/Y 08:30–12:00 p. 626

Satellites and rings – Posters

Halls X/Y 08:30–12:00 p. 627

Planetary, Solar and Heliospheric Radio Emissions – Posters

Halls X/Y 08:30–10:00 p. 627

Lunar science and exploration

Lecture Room 4 (H) 13:30–19:30 p. 625

Atmospheric and water loss from early Mars and its implication for the origin of life

Lecture Room 19 17:30–19:30 p. 628

SM: Seismology

Groundshaking scenarios, ground motion models and site effects (Conveners Fabrice Cotton and Stefano Parolai)

Lecture Room 26 08:30–12:00 p. 630

Earthquake Dynamics: New insights in the rupture process and seismic radiation through theory, modeling and observations

Lecture Room 26 13:30–15:00 p. 628

Earthquake ruptures, paleoseismology and seismic hazard models

Lecture Room 26 15:30–17:00 p. 629

Earthquake Dynamics: New insights in the rupture process and seismic radiation through theory, modeling and observations – Posters

Hall A 17:30–19:00 p. 629

Earthquake ruptures, paleoseismology and seismic hazard models – Posters

Hall A 17:30–19:00 p. 630

Groundshaking scenarios, ground motion models and site effects (Conveners Fabrice Cotton and Stefano Parolai) – Posters

Hall A 17:30–19:00 p. 631

SSS: Soil System Sciences

Organic soils, processes, mechanisms and utilization (co-listed in BG)

Lecture Room 33 08:30–10:00 p. 632

Ants in the Soil System. A hydrological, chemical and biological approach (co-listed in BG)

Lecture Room 33 10:30–12:00 p. 632

Ants in the Soil System. A hydrological, chemical and biological approach (co-listed in BG) – Posters

Hall A 13:30–15:00 p. 633

ST: Solar-Terrestrial Sciences

Theory and simulations of solar system plasmas (co-organized by PS)

Lecture Room 8 08:30–17:00 p. 633

Oscillations of the solar interior and atmosphere

Lecture Room 11 08:30–10:00 p. 634

The 3D heliosphere at solar minimum

Lecture Room 15 (F2) 08:30–17:00 p. 634

Open session on the ionosphere and thermosphere including connections to regions above and below

Lecture Room 11 10:30–17:00 p. 635

SSP: Stratigraphy, Sedimentology and Palaeontology

Sedimentary cyclicity in basinal deposits: possible mechanisms (co-sponsored by IAS)

Lecture Room 32 08:30–10:00 p. 636

Microbial Carbonates (co-sponsored by IAS and co-organized by BG) – Posters

Hall A 08:30–10:00 p. 636

Paleo-environmental indicators in carbonate systems (co-sponsored by IAS) – Posters

Hall A 08:30–10:00 p. 637

Dynamics of Sedimentary Basins - Evolution, Salt- and Fluid Dynamic (co-listed in GD & TS)

Lecture Room 32 10:30–15:00 p. 636

TS: Tectonics and Structural Geology

Failed vs. successful rifts: mechanisms for rift evolution – Posters

Halls X/Y 08:30–12:00 p. 637

Processes of rifting, sediment transport, fluid flow and biogenic activity: EUROMARGINS open session (co-organized by SSP) (co-listed in BG & CL) – Posters

Halls X/Y 08:30–10:00 p. 638

Tectonics and magmatism: Interactions from the grain- to the orogen-scale – Posters

Halls X/Y 08:30–12:00 p. 639

Tectonics and magmatism during continental rifting and break-up – Posters

Halls X/Y 08:30–12:00 p. 639

The influence of pre-existing structures upon the development and evolution of geological architectures

Lecture Room 3 08:30–12:00 p. 640

Alpine Geology: Information and inspiration from the best studied orogen of the world

Lecture Room 5 (I) 08:30–12:00 p. 641

Middle East Basins Evolution

Lecture Room 5 (I) 13:30–17:00 p. 640

Alpine Geology: Information and inspiration from the best studied orogen of the world – Posters

Halls X/Y 13:30–15:00 p. 641

Active Tectonics of the Circum-Adriatic Region

Lecture Room 3 13:30–15:00 p. 642

SC: EGU Short Courses

High-Resolution Inductively Coupled Plasma Mass Spectrometry (ICP-MS) presented by Isaac B. Brenner (Israel) and Meike Hamester (Germany) (co-listed in IG & GI)

Lecture Room 7 08:30–17:00 p. 642

Applied Mathematics and Physics from Oxford



- **Taylor: Elementary Climate Physics**
978-0-19-856734-9 | PBK | 288 pp | 2005 | ~~£23.95~~ **£19.16**
- **van den Dool: Empirical Methods in Short-Term Climate Prediction**
978-0-19-920278-8 | HBK | 288 pp | 200 | ~~£49.95~~ **£39.96**
- **Darrigol: Worlds of Flow**
978-0-19-856843-8 | HBK | 376 pp | 2005 | ~~£35.00~~ **£28.00**

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Paper Schedule Number

In this programme book each scheduled contribution is characterized by its specific paper schedule number designating the session/event and chronology of the presentation; e.g.:

ST10 – 1 MO 4 O – 003

ST10 = Session/Event Number

1 = Week of the Meeting/Conference

MO = Day of that Week

4 = Time Block of that Day

O = Session within that Time Block; Oral

003 = Sequence in that Session

Session:

O = Oral

P = Poster

Days:

MO = Monday

TU = Tuesday

WE = Wednesday

TH = Thursday

FR = Friday

Time Blocks:

1 = 08:30–10:00

2 = 10:30–12:00

3 = 13:30–15:00

4 = 15:30–17:00

5 = 17:30–19:00

6 = 19:00–20:00



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MEETING PROGRAMME

MONDAY

Union Symposia

US5 Prospective views for European Cooperation in Geosciences & Environmental Sciences: Contributions in a global context

Convener: Marks, J.
Co-Convener(s): Avril, B., Jonckheere, I., Turk, D.
Lecture Room 4 (H)
Chairperson: AVRIL, B.

10:30–11:00; EGU2007-A-11609; US5-1MO2O-001
Marks, J.

European Cooperation in Geosciences & Environmental Sciences: Introduction to key contributions in a global context (solicited)

11:00–11:30; EGU2007-A-11616; US5-1MO2O-002
Noone, K.J.
Global environmental change research: Science without borders (solicited)

11:30–12:00; EGU2007-A-11620; US5-1MO2O-003
Jouzel, J.; Wolff, E.W.; Brook, E.; Cucinotta, A.; Dahl-Jensen, D.; Jugie, G.; Miller, H.; Raynaud, D.
European and international cooperation in ice core research: the success of Greenland and EPICA projects and the IPICS strategy for the future (solicited)

12:00 LUNCH BREAK

Chairperson: TURK, D.

13:30–14:00; EGU2007-A-11615; US5-1MO3O-001
Mienert, J.; EUROMARGINS science community
EUROMARGINS - Large scale dynamics and micro-scale processes affecting Europe's continental margins (solicited)

14:00–14:30; EGU2007-A-11612; US5-1MO3O-002
Cloetingh, S.; TOPO-EUROPE team
EUROMARGINS and TOPO-EUROPE: prospects for synergy between ESF EUROCORES in process-oriented Integrated Solid Earth research (solicited)

14:30–15:00; EGU2007-A-03738; US5-1MO3O-003
Wheeler, A.; Freiwald, A.; Hebbeln, D.; Svennen, R.; Van Weering, T.; De Haas, H.; Dorschel, B.
Long cores through complete cold-water coral carbonate mounds: from IODP307 to EuroMARC project CARBON-ATE (solicited)

15:00 COFFEE BREAK

Chairperson: JONCKHEERE, I.

15:30–16:00; EGU2007-A-02165; US5-1MO4O-001
Camoin, G.; CHECREEF Team
The "CHECREEF" Project (ESF/EuroMARC Programme): The last deglacial sea-level and climatic changes; coral reef records in the South Pacific (solicited)

16:00–16:30; EGU2007-A-04359; US5-1MO4O-002
Herndl, G.J.; TRANSAT/ARCHIMEDES/HOT-MIX ship-board party
Bacterial and archaeal diversity and function in the major deep water masses of the North Atlantic (solicited)

16:30–17:00; EGU2007-A-11613; US5-1MO4O-003
Frenzel, P.

Structure and function of microbial communities: a case study in methanotrophy (solicited)

17:00 COFFEE BREAK

Chairperson: MARK, J.

17:30–18:00; EGU2007-A-11619; US5-1MO5O-001
Wohlfahrt, B.
Climate variability and the carbon cycle (past, present and future): The EuroCLIMATE Programme on multi-proxy reconstructions and coupled climate models at European and regional scales (solicited)

18:00–18:30; EGU2007-A-11618; US5-1MO5O-002
Winkler, B.
Mineral Physics with Computation and Experiment: Insights from the EuroMinSci Programme (solicited)

18:30–19:00; EGU2007-A-11684; US5-1MO5O-003
Connolly, N.; ESF Marine Board
The Marine Board – ESF and the integration of priorities in European Marine sciences (solicited)

19:00 END OF SESSION

US7 The International Polar Year 2007-2008 (abstract submission by invitation only)

Convener: Ellis-Evans, C.
Lecture Room 20 (N)
Chairperson: N.N.

8:30–9:00; EGU2007-A-11573; US7-1MO1O-001
Carlson, D.J.; Ellis-Evans, J.C.
Status and challenges of the IPY 2007-2008 programme (solicited)

9:00–9:30; EGU2007-A-11088; US7-1MO1O-002
Dickson, R.R.
Development of an integrated Arctic Ocean observing system (iAOOS) for the IPY (solicited)

9:30–10:00; EGU2007-A-07983; US7-1MO1O-003
Kjær, K.H.
Arctic Palaeoclimate and its EXtremes (APEX) (solicited)

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–11:00; EGU2007-A-11084; US7-1MO2O-001
Wilson, T.
POLENET - the polar Earth observing network (solicited)

11:00–11:30; EGU2007-A-11078; US7-1MO2O-002
Scambos, T.; Domack, E.; Rignot, E.; Steffen, K.; Vaughan, D.; Simoes, J.
Proposed and ongoing IPY science activity in the Antarctic Peninsula (solicited)

Mon

Tue

Wed

Thu

Fri

11:30–12:00; EGU2007-A-11092; US7-1MO2O-003
Bingham, R.G.
 Subglacial hydrology beneath the Antarctic Ice Sheet (solicited)

12:00 END OF SESSION

US11 Early Earth Evolution

Convener: Arndt, N.
 Co-Convener(s): Cockell, C.
 Lecture Room 29
 Chairperson: N.N.

13:30–14:00; EGU2007-A-07579; US11-1MO3O-001
Nisbet, E.G.; Grassineau, N.V.
 The evolution of oxygenesis in the Archaean (solicited)

14:00–14:30; EGU2007-A-10487; US11-1MO3O-002
Halliday, A.N.; Georg, R.B.; Nielsen, S.; Williams, H.M.
 Isotopes and formation of the Earth's core (solicited)

14:30–15:00; EGU2007-A-10834; US11-1MO3O-003
Harrison, T.M.
 Observations of Hadean Earth (solicited)

15:00–15:30; EGU2007-A-11227; US11-1MO3O-004
 Korenaga, J.
 Thermal History of Earth: Archean to present (solicited)

15:30 COFFEE BREAK

Chairperson: N.N.

15:30–16:00; EGU2007-A-11228; US11-1MO4O-001
 Fauve, S.
 Planetary magnetism and laboratory dynamos (solicited)

16:00–16:30; EGU2007-A-11464; US11-1MO4O-002
Zahnle, K.; Arndt, N.; Cockell, C.; Halliday, A.; Nisbet, E.; Selsis, F.; Sleep, N.H.
 Earth after the Moon-forming impact (solicited)

16:30–17:00; EGU2007-A-11465; US11-1MO4O-003
 Marty, B.
 Mantle-atmosphere evolution in the Hadean (solicited)

17:00 END OF SESSION

Educational Symposia

ES1 GIFT Workshop: Geosciences in the City

Convener: Laj, C.
 Co-Convener(s): Cifelli, F., Funicello, F.
 Lecture Room 9 (P)

Atmospheric Sciences

AS0 Open Session on the Lower, Middle, and Upper Atmosphere

Convener: Juckes, M.
 Lecture Room 1 (G)
 Chairperson: N.N.

8:30–9:00; EGU2007-A-00276; AS0-1MO1O-001
Tavolato, C.; Haimberger, L.
 Global mean stratospheric warm bias of 1K in radiosonde temperatures in the 1980s. (solicited)

9:00–9:15; EGU2007-A-01620; AS0-1MO1O-002

Zurita-Gotor, P.
 The sensitivity of the isentropic slope in a primitive-equation dry model

9:15–9:30; EGU2007-A-11212; AS0-1MO1O-003

Krause, S.; Buytaert, W.; Krueger, T.
 The carbon footprint of academic travelling – assessing the sustainability of different ways of travelling to the EGU Assembly

9:30–9:45; EGU2007-A-01901; AS0-1MO1O-004

Jacobi, C.; Kürschner, D.; Fröhlich, K.
 Interannual variability of the quasi two-day wave over Central Europe (52°N, 15°E)

9:45–10:00; EGU2007-A-02834; AS0-1MO1O-005

Chiesa, S.; rossi, M. J.
 The ir-spectroscopic and thermodynamic properties of HCl/H₂O in the range 170–220K

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–11:00; EGU2007-A-09795; AS0-1MO2O-001

Legras, B.
 Age of air and heating rates (solicited)

11:00–11:15; EGU2007-A-01126; AS0-1MO2O-002

Krizan, P.
 Peter Krizan : Stratosphere in the anomalous autumn 2006

11:15–11:30; EGU2007-A-08500; AS0-1MO2O-003

Dodion, J.; Fussen, D.; Vanhellemont, F.; Bingen, C.; Matashvili, N.; Dekemper, E.; THE ACE TEAM
 Zernike moments as a useful tool for ACE imager temperature retrieval

11:30–11:45; EGU2007-A-07954; AS0-1MO2O-004

Brohede, S.; McLinden, C.; Murtagh, D.; Haley, C.; Berthet, G
 Stratospheric NO₂ Climatology from Odin/OSIRIS Limb Scattering Measurements

11:45–12:00; EGU2007-A-02594; AS0-1MO2O-005

Karlsson, B.; Körnich, H.; Gumbel, J.
 Evidence for interhemispheric stratosphere-mesosphere coupling derived from noctilucent cloud properties

12:00–12:15; EGU2007-A-06366; AS0-1MO2O-006

Reichl, P.; von Savigny, C.; Bovensmann, H.; Burrows, J. P.
 Geographic distribution of polar stratospheric clouds

12:15 END OF SESSION

AS0 Open Session on the Lower, Middle, and Upper Atmosphere – Posters

Convener: Juckes, M.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 13:30–15:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0001; EGU2007-A-00557; AS0-1MO3P-0001

Rózsavölgyi, K.; Geiger, J; Makra, L
 Climatic and energetic modelling of regional utilization of wind energy for Hungary

XY0002; EGU2007-A-07178; AS0-1MO3P-0002
Lee, C.; Richter, A.; Burrows, J. P.; Kim, Y. J.; Lee, Y. G.; Choi, B. C.
 Impact of transport of sulfur dioxide from the Asian continent on air quality over Korea in May 2005

XY0003; EGU2007-A-00868; AS0-1MO3P-0003
Bordás, Á.
 Reactive asymmetrical convective model for vertical mixing

XY0004; EGU2007-A-09035; AS0-1MO3P-0004
Leroy, C.; Delbarre, H.; Augustin, P.; Fourmentin, M.; Chevalier, A.; Gheusi, F.; Delmas, R.; Tsamalis, C.; Ravetta, F.; Ancellet, G.; PIC 2005
 Role of local meteorological phenomena on the measurement of background pollution in high altitude monitoring stations

XY0005; EGU2007-A-02925; AS0-1MO3P-0005
Dix, B.; Brenninkmeijer, C.A.M.; Friess, U.; Wagner, T.; Platt, U.
 DOAS on board: spectroscopic trace gas measurements on CARIBIC flights

XY0006; EGU2007-A-09064; AS0-1MO3P-0006
Gera, M.; Bastak, I.; Damborska, I.; Drinka, R.
 Dynamical adaptation of climatologic data

XY0007; EGU2007-A-03744; AS0-1MO3P-0007
Mangold, A.; Grooß, J.-U.; Ruhnke, R.; Kirner, O.; De Backer, H.; Müller, R.
 A model study of the January 2006 low total ozone episode over Western Europe and comparison with ozone sonde data

XY0008; EGU2007-A-01033; AS0-1MO3P-0008
Ung, A.; Léon, J.-F.; Meleux, F.; Kacenelenbogen, M.
 The use of POLDER satellite data for CHIMERE chemistry-transport model

XY0009; EGU2007-A-00327; AS0-1MO3P-0009
Sperka, S.; Haimberger, L.
 Homogenization of the global radiosonde temperature dataset using composites of reference stations and ERA-40 background forecasts

XY0010; EGU2007-A-05334; AS0-1MO3P-0010
McDonald, A J.; Hooper, D.; George, SE; Huggard, P; Ellison, B; Oldfield, M
 Simultaneous and co-located MST and Cloud-radar observations

XY0011; EGU2007-A-05847; AS0-1MO3P-0011
Xi, B.; Dong, X.; Minnis, P.
 A Climatology of Midlatitude Continental Clouds from the ARM SGP Central Facility: Part II: Cloud Fraction and Surface Radiative Forcing

XY0012; EGU2007-A-05844; AS0-1MO3P-0012
Dong, X.; Xi, B.; Minnis, P.
 Observational evidence of changes in water vapor, clouds, and radiation at the ARM SGP site

XY0013; EGU2007-A-08642; AS0-1MO3P-0013
Balin, I.; Higgins, C.; Couach, O.; **Balin Talamba, D.;** Simeonov, V.; van der Bergh, H.; Parlange, M.B.
 August 2003 heat wave Analysis: Swiss Alpine LIDAR measurements and modeling of the Atmospheric Boundary Layer

XY0014; EGU2007-A-06251; AS0-1MO3P-0014
Ostrozlik, M.
 Seasonal variability of the global solar radiation and air temperature in the High Tatras Mountain

XY0015; EGU2007-A-11206; AS0-1MO3P-0015
Chen, TC; Wang, SY
 Interannual variation of the Sahel rainfall

XY0016; EGU2007-A-10223; AS0-1MO3P-0016
Otto, O.; de Reus, d. R.; Trautmann, T.; Wendisch, W.; Borrmann, B.
 The influence of large mineral dust particles on the atmospheric radiative effects of an in-situ measured Saharan dust plume

XY0017; EGU2007-A-05322; AS0-1MO3P-0017
Monahan, K P; **McDonald, A J;** Bodeker, G E
 Using Entropy to examine the mixed region between the Troposphere and the Stratosphere

XY0018; EGU2007-A-08877; AS0-1MO3P-0018
Warwick, N.; Pyle, J.
 Global modelling of the atmospheric hydrogen budget

Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 15:30–17:00

Poster Area Halls X/Y
 Chairperson: N.N.

XY0019; EGU2007-A-00876; AS0-1MO4P-0019
Velazco, V.; UFTIR Team
 Stratospheric methane: Time series from ground-based Fourier transform infrared spectrometry

XY0020; EGU2007-A-00984; AS0-1MO4P-0020
Gelybó, Gy.; Kern, A.; Bartholy, J.; Pongrácz, R.; Barcza, Z.; Ferencz, Cs.
 Atmospheric profiles measured by polar orbiting satellites

XY0021; EGU2007-A-08530; AS0-1MO4P-0021
Van Roozendaal, M.; Fayt, C.; Hendrick, F.; Hermans, C.; De Mazière, M.; Kreher, K.; Johnston, P.
 Long term ground-based observations reveal a recent decline in stratospheric bromine loading

XY0022; EGU2007-A-08709; AS0-1MO4P-0022
Eriksson, P.; Urban, J.; **Ekström, M.;** Kasai, Y.; Murtagh, D.P.
 Odin-SMR measurements of water isotopologues in the stratosphere: An update

XY0023; EGU2007-A-08331; AS0-1MO4P-0023
Fally, S.; Coheur, P.-F.; Carleer, M.; Hurtmans, D.; BIRA-FTIR & LACy-Reunion teams
 Water vapour retrievals from ground-based FTIR observations at Ile de la Réunion: Focus on isotopologues

XY0024; EGU2007-A-08640; AS0-1MO4P-0024
Senten, C.; De Mazière, M.; Carleer, M.; Coheur, P.F.; Fally, S.; Baray, J.L.; Leveau, J.; Metzger, J.M.; Mahieu, E.; BIRA-IASB FTIR TEAM
 Ground-based FTIR measurements at Ile de La Réunion: Observations, error analysis and comparisons with satellite data.

XY0025; EGU2007-A-06906; AS0-1MO4P-0025
Duchatelet, P.; Mahieu, E.; Demoulin, P.; Bernath, P.; Boone, C.; Walker, K.; Wood, S.; Smale, D.
 Determination of COF2 vertical distributions above Jungfraujoch by FTIR and multi-spectra fitting

XY0026; EGU2007-A-00954; AS0-1MO4P-0026
Monge-Sanz, B. M.; Chipperfield, M. P.
 A revised ozone parameterisation scheme: COPCAT coefficients within SLIMCAT simulations.

XY0027; EGU2007-A-01934; AS0-1MO4P-0027
Pukite, J.; Kühl, S.; Deutschmann, T.; Platt, U.; Wagner, T.
 Stratospheric Trace Gases from SCIAMACHY Limb Measurements using 3D full spherical Monte Carlo Radiative Transfer Model Tracy-II

XY0028; EGU2007-A-02682; AS0-1MO4P-0028
Kühl, S.; Pukite, J.; Deutschmann, T.; Platt, U.; Wagner, T.
 Vertical profiles of BrO and OCIO measured by SCIA-MACHY

XY0029; EGU2007-A-10392; AS0-1MO4P-0029
Mahieu, E.; Duchatelet, P.; Zander, R.; Wood, S.W.; Smale, D.; Ruhnke, R.; Wiehle, M.; Rinsland, C.P.; Demoulin, P.
 Recent evolution of stratospheric inorganic chlorine (Cly) inferred from long-term ground-based FTIR observations of HCl and ClONO₂

XY0030; EGU2007-A-09599; AS0-1MO4P-0030
Jégou, F.; Hauglustaine, D.; Lott, F.; Lefèvre, F.; Pomereau, J.P.; Bekki, S.
 Validation of the LMDZ-INCA climate chemistry model

XY0031; EGU2007-A-10924; AS0-1MO4P-0031
Walker, J. C.; Dudhia, A.
 Seasonal variation in total NO_x from MIPAS-ENVISAT

XY0032; EGU2007-A-07674; AS0-1MO4P-0032
Redaelli, G.; Cortesi, U.; Bianchini, G.; Castelli, E.; Dinelli, B.; Grassi, B.; Taddei, A.; Visconti, G.
 Multi-technique comparison of MIPAS O₃ measurements with correlative data obtained by FIR-FTS measurements during the ENVISAT Stratospheric Aircraft and Balloon Campaigns (ESABC)

XY0033; EGU2007-A-07597; AS0-1MO4P-0033
Ruhnke, R.; the PEP Cly - Fy - project team
 Measured and modelled trends of stratospheric Cly and Fy column amounts in the northern hemisphere

XY0034; EGU2007-A-11022; AS0-1MO4P-0034
Cai, M.; Ren, R.-C.
 A global mass circulation paradigm for the annular mode variability

XY0035; EGU2007-A-02944; AS0-1MO4P-0035
Grach, V.; Demekhov, A.; Trakhtengerts, V.
 Instability of charged aerosol flow as a generation mechanism for electron density irregularities in mesosphere

XY0036; EGU2007-A-00713; AS0-1MO4P-0036
Stober, G.; Jacobi, Ch.; Weithäuser, I.; Kürschner, D.
 Analysis of mesopause wave activity using meteor radar wind and temperature measurements

AS1.02 Numerical Weather Prediction and Data Assimilation (General Session)

Convener: Järvinen, H.
 Co-Convener(s): Garcia-Moya, J.
 Lecture Room 12 (E2)
 Chairperson: N.N.

8:30–8:45; EGU2007-A-02193; AS1.02-1MO1O-001
Körnich, H.; Källén, E.
 Equatorial mass/wind balance relationship in global data assimilation

8:45–9:00; EGU2007-A-05058; AS1.02-1MO1O-002
Frehlich, R.
 Next generation ensemble data assimilation to include state dependent observation error

9:00–9:15; EGU2007-A-05825; AS1.02-1MO1O-003
Warner, T.; Swerdlin, S.; Liu, Y.; Sun, J.; Sheu, R.; Copeland, J.
 Multi-scale, model-based urban analyses, forecasts and climatologies

9:15–9:30; EGU2007-A-08849; AS1.02-1MO1O-004
Gelaro, R.; Zhu, Y.
 Assessing observation impact using the adjoint of the GEOS-5 data assimilation system

9:30–9:45; EGU2007-A-08392; AS1.02-1MO1O-005
Riishojgaard, L. P.; Brin, G.; Liu, H.-C.
 Assimilation of radiances and geophysical retrievals from NASA's AIRS sensor

9:45–10:00; EGU2007-A-09591; AS1.02-1MO1O-006
Weissmann, M.; Cardinali, C.; Dörmbrack, A.; Ehret, G.; Holm, E.; Kiemle, C.
 The impact of airborne wind and water vapour lidar measurements on ECMWF analyses and forecasts

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-05276; AS1.02-1MO2O-001
Stoffelen, A.; Portabella, M.; Vogelzang, J.; Verhoef, A.; Verspeek, J.; **Burgers, G.**
 The first ASCAT scatterometer winds

10:45–11:00; EGU2007-A-05949; AS1.02-1MO2O-002
Eresmaa, R.; **Järvinen, H.;** Healy, S.; Salonen, K.; Niemelä, S.
 Local asymmetry in ground-based GPS slant delay data

11:00–11:15; EGU2007-A-09141; AS1.02-1MO2O-003
Baldauf, M.; Helmert, K.; Hassler, B.; Stephan, K.; Klink, S.; Schraff, C.; Seifert, A.; Foerstner, J.; Reinhardt, T.; Lenz, C.-J.
 The new very short range forecast model LMK for the convection-resolving scale

11:15–11:30; EGU2007-A-01303; AS1.02-1MO2O-004
Williams, K. D.; Brooks, M. E.
 Initial tendencies of cloud regimes in the Met Office Unified Model

11:30–11:45; EGU2007-A-05025; AS1.02-1MO2O-005
Janjic, Z.; Black, T. L.
 An ESMF unified model for a broad range of spatial and temporal scales

11:45–12:00; EGU2007-A-10170; AS1.02-1MO2O-006
Ólafsson, H.; Ágústsson, H.; Rögnvaldsson, Ó.
 Forecasting benefits of increased horizontal resolution in complex terrain

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2007-A-01849; AS1.02-1MO3O-001
Masbou, M.; Bott, A.; Müller, M.D.; Cermak, J.
 LM-PAFOG: Three-dimensional fog forecast model with parameterized microphysics

13:45–14:00; EGU2007-A-07205; AS1.02-1MO3O-002
Bousquet, O.; Tabary, P.; Parent du Chatelet, J.
 On the use of operationally synthesized multiple-Doppler wind fields for model verification

14:00–14:15; EGU2007-A-02031; AS1.02-1MO3O-003
Palamarchuk, J.; Ivanov, S.
 Diagnosis of parameterization schemes in the MM5 model

14:15–14:30; EGU2007-A-06338; AS1.02-1MO3O-004
Kornbluh, L.; Keller, J.; Rhodin, R.; Hense, A.; Wergen, W.
 A combined ETKF/breeding assimilation system

14:30–14:45; EGU2007-A-11510; AS1.02-1MO3O-005
Garcia-Moya, J. A.; Callado, A.; Santos, C.; Santos-Munoz, D.; Simarro, J.
 Multimodel Ensemble for Short-Range Forecast

14:45–15:00; EGU2007-A-03150; AS1.02-1MO3O-006
Liu, Y.; hacker, J.; xu, M.; warner, T.; swerdlin, S.
 An analysis of multiple approaches for mesoscale ensemble forecasting

15:00 END OF SESSION

AS1.02 Numerical Weather Prediction and Data Assimilation (General Session) – Posters

Convener: Järvinen, H.
 Co-Convener(s): Garcia-Moya, J.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 15:30–17:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0037; EGU2007-A-06385; AS1.02-1MO4P-0037
Sairouni, A.; Miró, J.R.; Moré, J.; Bech, J.; Rigo, T.
 Impact of assimilation of observations into the MASS and MM5 models short-range forecast

XY0038; EGU2007-A-03773; AS1.02-1MO4P-0038
Kaewkham-ai, B.; Harrison, R. F.
 Improving Dst index prediction for colored measurement noise using Kalman Filtering

XY0039; EGU2007-A-06303; AS1.02-1MO4P-0039
Fita, L.; Romero, R.; Luque, A.; Ramis, C.
 Assimilation of satellite and lightning data in numerical simulations of tropical-like Mediterranean storms

XY0040; EGU2007-A-06534; AS1.02-1MO4P-0040
Dando, M.; Thorpe, A.; Eyre, J.
 The impact of targeted satellite observations on weather prediction

XY0041; EGU2007-A-04474; AS1.02-1MO4P-0041
Cucurull, L.; Derber, J.; Treadon, R.; Purser, J.
 Impact studies with COSMIC GPS radio occultation data at NOAA/NCEP

XY0042; EGU2007-A-05969; AS1.02-1MO4P-0042
Mirza, C. R.; Koike, T.; Yang, K.; Graf, T.
 The Role of Cloud Microphysics Data Assimilation System (CMDAS) in the Numerical Weather Prediction Model

XY0043; EGU2007-A-03109; AS1.02-1MO4P-0043
Liu, Y.; warner, T.; swerdlin, S.; yu, W.; jacobs, N.; anderson, M.
 Assimilation data from diverse sources for mesoscale NWP: TAMDAR-data impact

XY0044; EGU2007-A-01030; AS1.02-1MO4P-0044
Pérez, R. C.
 Multiple varied index of the severe hailstorm in Mendoza (Argentina) using on the ground meteorology & C band radar data: DCPIM(Deep Convection Process Identification Model).

XY0045; EGU2007-A-05874; AS1.02-1MO4P-0045
 Anderson, C.; **Arritt, R.;** Kain, J.
 A revised version of the Kain-Fritsch convective parameterization

XY0046; EGU2007-A-02405; AS1.02-1MO4P-0046
 Lynch, P.; **Clancy, C.**
 Development of a filtering integration scheme for numerical weather prediction and climate modelling

XY0047; EGU2007-A-01502; AS1.02-1MO4P-0047
Lauritzen, PHL
 A stability analysis of finite-volume advection schemes permitting long time steps

XY0048; EGU2007-A-09494; AS1.02-1MO4P-0048
Mesinger, F.; Chou, S. C.; Gomes, J.; Jovic, D.
 The eternal vertical coordinate issue: sigma, eta, sloping steps eta update, and a severe downslope wind case study

XY0049; EGU2007-A-04816; AS1.02-1MO4P-0049
Ghader, S.; Ahmadi-Givi, F.; Amiri, A.
 Compact spatial differencing for the spherical shallow water equations

XY0050; EGU2007-A-01210; AS1.02-1MO4P-0050
Mohebalhojeh, A. R.; Dritschel, D. G.
 The diabatic contour-advective semi-Lagrangian algorithms for the shallow water equations on the sphere

XY0051; EGU2007-A-04419; AS1.02-1MO4P-0051
Memorian, H.M.; Kozhevnikov, V.N.; Dmitrieva-Arrago, L.R.
 The modeling of the atmospheric flux perturbations and wave clouds in the mountain regions

XY0052; EGU2007-A-10329; AS1.02-1MO4P-0052
de Bruijn, E.I.F.; Tijn, A.B.C
 Overall tuning of HIRLAM with the focus on the stable boundary layer

XY0053; EGU2007-A-04021; AS1.02-1MO4P-0053
Hertzog, A.; Basdevant, C.; Vial, F.
 Estimation of the accuracy of ECMWF ERA-40 and NCEP/NCAR 50-year reanalyses in the summer hemisphere UTLS during the pre-satellite era

XY0054; EGU2007-A-10249; AS1.02-1MO4P-0054
Hacker, J.; Rostkier-Edelstein, D
 State estimation and predictability in the planetary boundary layer

XY0055; EGU2007-A-03307; AS1.02-1MO4P-0055
Bonta, Dr.
 Performance of the models during inversion situation considering the demands of energy supply

XY0056; EGU2007-A-07325; AS1.02-1MO4P-0056
Salonen, K.; Järvinen, H.; Järvenoja, S.; Eresmaa, R.; Niemelä, S.
 Bias estimation of Doppler radar radial winds

XY0057; EGU2007-A-08282; AS1.02-1MO4P-0057
Webster, S.; Uddstrom, M; Oliver, H
 A high resolution modelling study of a severe weather event over the Southern Alps of New Zealand

XY0058; EGU2007-A-03112; AS1.02-1MO4P-0058
Du, J.; Gayno, G.
 Sensitivity of T2m forecast to Soil Moisture Initial States using NCEP Short-Range Ensemble Forecasting (SREF) System

XY0059; EGU2007-A-08573; AS1.02-1MO4P-0059
Marrocu, M.; Chessa, P. A.
 Assesment of the performace of a multi-model multi-analysis limited area ensemble

XY0060; EGU2007-A-04381; AS1.02-1MO4P-0060
Vich, M.; Romero, R.
 Potential vorticity error assessment applied to ensemble forecasts of Mediterranean cyclones

AS1.04 Clouds, Aerosols and Radiation (General Session)

Convener: Spichtinger, P.
Co-Convener(s): Stubenrauch, C., Kärcher, B.
Lecture Room 10 (E1)
Chairperson: KINNE, S.

8:30–9:00; EGU2007-A-08215; AS1.04-1MO1O-001
Highwood, E.; Haywood, J.; McConnell, C.; Formenti, P.
The impact of Saharan dust on radiation and climate (solicited)

9:00–9:15; EGU2007-A-00746; AS1.04-1MO1O-002
Boukaram, D.B.; Flamant, C.; Tulet, P.; Chaboureaud, J.-P.; Washington, R.; Todd, M.
Numerical Modelling of saharian dust impact on the atmospheric dynamics in the Bodele depression

9:15–9:30; EGU2007-A-07825; AS1.04-1MO1O-003
Fiebig, M.; SAMUM Falcon Column Closure Team
Optical Properties of Desert Dust: Airborne vertical Profile Observations of Dust Properties and Closure with Ground and Satellite Observations during the Saharan Mineral Dust Experiment SAMUM 2006

9:30–9:45; EGU2007-A-09922; AS1.04-1MO1O-004
Badarinath, K.V.S.; Kumar Kharol, S.; Kaskaoutis, D.G.; Kambezidis, H.D.; Nastos, P.
Variation of aerosol properties in a tropical urban environment during intense cyclone period – A case study

9:45–10:00; EGU2007-A-10095; AS1.04-1MO1O-005
Roberts, G.C.; Ramanathan, V.; Corrigan, C.; Ramanan, M.V.; Kim, D.; Nguyen, H.
Simultaneous measurements of dust and pollution to observe aerosol-cloud interactions

10:00 COFFEE BREAK

Chairperson: HIGHWOOD, E.

10:30–10:45; EGU2007-A-09452; AS1.04-1MO2O-001
Rose, D.; Frank, G. P.; Dusek, U.; Andreae, M. O.; Pöschl, U.
Are the cloud condensation nuclei (CCN) properties in polluted air different from those in a remote region?

10:45–11:00; EGU2007-A-08314; AS1.04-1MO2O-002
Spracklen, D.V.; Carslaw, K.S.; Kulmala, M.; Kerminen, V.-M.; Mann, G.W.; Sihto, S.-L.; Riipinen, I.
The contribution of nucleation events to global cloud condensation nuclei concentrations

11:00–11:15; EGU2007-A-03906; AS1.04-1MO2O-003
Peng, Y.; Feichter, J.; Quaas, J.; Lohmann, U.; Stier, P.; Kloster, S.
An evaluation on the parameterization schemes of the aerosol activation process for stratus/stratiform clouds in ECHAM5-HAM GCM

11:15–11:45; EGU2007-A-02366; AS1.04-1MO2O-004
Kinne, S.
(Direct) Radiative Forcing by Anthropogenic Aerosol. (solicited)

11:45–12:00; EGU2007-A-06597; AS1.04-1MO2O-005
Hünerbein, A.; Schröder, M.; Preusker, R.; Fischer, J.
Observation of the first indirect aerosol effect with MODIS: Case studies

12:00 LUNCH BREAK

Chairperson: STEVENS, B.

13:30–13:45; EGU2007-A-04376; AS1.04-1MO3O-001
Campmany, E.; **Thomas, G.E.**; Carboni, E.; Poulsen, C.A.; Grainger, R.G.; Lawrence, B.N.; Watts, P.D.
Initial results from the GRAPE version 2 aerosol and cloud climatology

13:45–14:00; EGU2007-A-04643; AS1.04-1MO3O-002
Heidinger, A.; Pavolonis, M.; **Evan, A.**
Characterization of the 25 year PATMOS-x satellite cloud climatology using advanced sensors

14:00–14:15; EGU2007-A-04262; AS1.04-1MO3O-003
Berthier, S.; Chazette, P.; **Pelon, J.**
Cloud statistics obtained by LITE, GLAS and CALIPSO missions : focus on high semi-transparent clouds

14:15–14:30; EGU2007-A-03063; AS1.04-1MO3O-004
Lamquin, N.; Stubenrauch, C.J.; Wang, P.-H.
Influence of ice supersaturation and dynamics on cirrus occurrence near the tropopause

14:30–14:45; EGU2007-A-04473; AS1.04-1MO3O-005
Dupont, J.-C.; **Haefelin, M.**
Quantification of the radiative effect of optically thin clouds on the surface energy budget based on two years of lidar and radiation measurements at the SIRTa observatory

14:45–15:00; EGU2007-A-06494; AS1.04-1MO3O-006
Venema, V.; **Schomburg, A.**; Ament, F.; Simmer, C.
Designing more efficient and accurate parameterisation schemes utilising spatial and temporal correlations - two example radiative transfer parameterisations for limited area models

15:00 COFFEE BREAK

Chairperson: SPICHTINGER, P.

15:30–16:00; EGU2007-A-05405; AS1.04-1MO4O-001
Stevens, B.
Precipitation effects on shallow cumulus convection (solicited)

16:00–16:15; EGU2007-A-07440; AS1.04-1MO4O-002
Posselt, R.; Lohmann, U.
Prognostic equations for rain in the ECHAM5 GCM: Design and Single Column Model Simulations

16:15–16:30; EGU2007-A-02449; AS1.04-1MO4O-003
Slawinska, J.; McFarlane, S. A.; Grabowski, W. W.; Pawlowska, H.
Optical properties of trade-wind cumuli: observations and modeling

16:30–16:45; EGU2007-A-01375; AS1.04-1MO4O-004
Schultz, D. M.; Kanak, K. M.; Straka, J. M.
What causes mammatus?

16:45–17:00; EGU2007-A-08312; AS1.04-1MO4O-005
Schröder, M.; König, M.; Schmetz, J.
Climatology of convective activity, water vapour and long-wave radiation over Africa in summer 2006

17:00 END OF SESSION

AS1.13 GIS in meteorology and climatology (co-listed in CL)

Convener: Dyras, I.
Co-Convener(s): Wilhelmi, O.
Lecture Room 12 (E2)
Chairperson: DYRAS, I.

15:30–16:00; EGU2007-A-11566; AS1.13-1MO4O-001
Shipley, S.; Team Atmosphere
 Atmospheric and oceanographic applications of GIS in the United States – from “fish sticks” to satellites (solicited)

16:00–16:15; EGU2007-A-03796; AS1.13-1MO4O-002
van de Vegte, J.; van der Wel, F.; Som de Cerff, W.; van Hees, R.; Schaepman, M.; Hoogerwerf, M.; Domenico, B.; Nativi, S.; Wilhelmi, O.
 Atmospheric Data Access for the Geospatial User Community (ADAGUC)

16:15–16:30; EGU2007-A-06021; AS1.13-1MO4O-003
Ginzburg, A.; Lebedeva, N
 GIS prototype for atmospheric balance of greenhouse gases content over the Russian territory

16:30–16:45; EGU2007-A-01187; AS1.13-1MO4O-004
Kelley, O.K.; Stocker, ES
 Severe weather data in Geographic Information Systems: What formatting details make satellite data useful in GIS?

16:45–17:00; EGU2007-A-08648; AS1.13-1MO4O-005
Dyras, I.
 GIS application for the comparison of the satellite derived precipitation with automatic rain gauge network measurements.

17:00 END OF SESSION

AS1.13 GIS in meteorology and climatology (co-listed in CL) – Posters

Convener: Dyras, I.
 Co-Convener(s): Wilhelmi, O.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 13:30–15:00
 Poster Area Halls X/Y
 Chairperson: SHIPLEY, S

XY0061; EGU2007-A-08110; AS1.13-1MO3P-0061
Sauter, T.; Schneider, Ch.
 Classification of synoptic-scale weather patterns in southernmost South America using self-organizing maps

XY0062; EGU2007-A-03083; AS1.13-1MO3P-0062
Matyas, C.J.
 Analyzing tropical cyclone radar reflectivity patterns using GIS

XY0063; EGU2007-A-07708; AS1.13-1MO3P-0063
Dubrovsky, M.; Trnka, M.; Ruget, F.; Hlavinka, P.
 Comparison of two interpolation methods for modelling crop yields in ungauged locations

XY0064; EGU2007-A-08534; AS1.13-1MO3P-0064
Liu, P.G.
 GDI+ based generating algorithm of smooth curve layer and its applications

XY0065; EGU2007-A-09839; AS1.13-1MO3P-0065
Schneider, C.; Frank, A.
 Semi-objective classification and statistical analysis of weather types over South Patagonia

XY0066; EGU2007-A-10449; AS1.13-1MO3P-0066
 Schaumberger, A.; **Trnka, M.;** Eitzinger, J.; Formayer, H.; Bartelme, N.
 Agrometeorological monitoring of Austrian grasslands using GIS based modeling

XY0067; EGU2007-A-10881; AS1.13-1MO3P-0067
 Warner, R; **Romstad, D**
 A METOC Web Feature Service for the Mission Planning Environment (cancelled)

XY0068; EGU2007-A-11354; AS1.13-1MO3P-0068
Sharifan, H.
 Investigation on 10-daily rainfall by GIS in Gorgan region-Iran

AS3.10 Modelling, Data-Assimilation and Source-Sink Inversion for Operational Atmospheric Composition

Convener: Hollingsworth, A.
 Co-Convener(s): GRANIER, C., Paliouras, E.
 Lecture Room 1 (G)
 Chairperson: N.N.

13:30–13:45; EGU2007-A-03635; AS3.10-1MO3O-001
Bergamaschi, P.; Meirink, J.F.; Krol, M.
 Novel 4DVAR System for Inverse Modelling of Atmospheric CH₄

13:45–14:00; EGU2007-A-08819; AS3.10-1MO3O-002
Crevoisier, C.; Sweeney, C.; Gloor, M.; Tans, P.
 Use of CO₂ vertical profiles from the NOAA/ESRL Aircraft Network to estimate carbon sources and sinks over continental North America in a direct carbon budgeting approach

14:00–14:15; EGU2007-A-03982; AS3.10-1MO3O-003
Buchwitz, M.; Khlystova, I.; Schneising, O.; Bovensmann, H.; Burrows, J.P.
 Three years of global carbon monoxide, methane and carbon dioxide columns retrieved from SCIAMACHY on ENVISAT

14:15–14:30; EGU2007-A-07433; AS3.10-1MO3O-004
Stein, O.; Schultz, M. G.; Geiß, H.
 European heatwave 2003: A GEMS-GRG approach with the global CTM MOZART3

14:30–14:45; EGU2007-A-07649; AS3.10-1MO3O-005
 Ordóñez, C.; Cammas, J. P.; Stein, O.; Segers, A.; Moinat, P.; Schultz, M. G.
 Evaluation of the performance of global chemistry transport models during the European heat wave of summer 2003

14:45–15:00; EGU2007-A-08909; AS3.10-1MO3O-006
Baier, F.; Erbertseder, Th; Bittner, M
 The PROMOTE ozone profile service: Long-term 3D ozone reanalysis of ERS-2 and ENVISAT data sets

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-09395; AS3.10-1MO4O-001
Kaiser, J.W.; Serrar, S.; Engelen, R.J.; Morcrette, J.-J.; Hollingsworth, A.; Gregoire, J.-M.; van der Werf, G.R.
 Global Fire Emission Modelling for Atmospheric Composition and Land Cover Monitoring

15:45–16:00; EGU2007-A-03772; AS3.10-1MO4O-002
Kinne, S.; Morcrette, J.J.; Flentje, H.; Mangold, A
 GEMS: Evaluation of the aerosol component

16:00–16:15; EGU2007-A-01789; AS3.10-1MO4O-003
Lin, C.Y.; Wang, Z.F.; Zhu, J.
 Data assimilation experiments for severe dust storm forecasts over China using Ensemble Kalman Filter

16:15–16:30; EGU2007-A-06261; AS3.10-1MO4O-004
Labonne, M.; Schulz, M.; Bréon, F.-M.
 Validation of aerosol transport models using CALIPSO spaceborne lidar

16:30–16:45; EGU2007-A-02618; AS3.10-1MO4O-005

Nieradzik, L.; Elbern, H.

Enhancing the Prediction Skill of tropospheric Aerosols by using near real-time Satellite Data in a 3-dimensional variational Assimilation Scheme

16:45–17:00; EGU2007-A-07935; AS3.10-1MO4O-006

Forêt, G.; Szopa, S.; Monge, J.L.; Menut, L.; Vautard, R.; Beekmann, M.

Performances of an experimental platform dedicated to European pollution forecast based on the CHIMERE chemistry transport model driven by the ECMWF meteorological model

17:00 END OF SESSION

AS3.10 Modelling, Data-Assimilation and Source-Sink Inversion for Operational Atmospheric Composition – Posters

Convener: Hollingsworth, A.

Co-Convener(s): GRANIER, C., Paliouras, E.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0069; EGU2007-A-06937; AS3.10-1MO2P-0069

Hollingsworth, A.; THE GEMS TEAM

Recent progress from "Global Earth-system Monitoring using Satellite and in-situ data" (GEMS) project

XY0070; EGU2007-A-10535; AS3.10-1MO2P-0070

Paliouras, E.; The PROMOTE Team

An Overview of PROMOTE2: Delivering advanced operational services directly to users.

XY0071; EGU2007-A-06718; AS3.10-1MO2P-0071

Lauvaux, L.; Davis, D.; Sarrat, S.; Chevallier, C.; Uliasz, U.; Lac, L.; Bousquet, B.; Ciais, C.; Noilhan, N.; Rayner, R.
Ensemble model simulations : a new tool to assess transport uncertainties in mesoscale inversions of CO₂ sources and sinks

XY0072; EGU2007-A-08353; AS3.10-1MO2P-0072

Engelen, R.; Serrar, S.; **Kaiser, J.;** Chevallier, F.

Monitoring of atmospheric Greenhouse Gases using a four-dimensional variational (4D-Var) data assimilation system in the GEMS project

XY0073; EGU2007-A-07757; AS3.10-1MO2P-0073

Dethof, A.; Flemming, J.; Larsson, C.

First results of a data assimilation system for reactive gases built as part of the GEMS project

XY0074; EGU2007-A-08868; AS3.10-1MO2P-0074

Schultz, M.G.; The GEMS GRG team

Building an integrated forecasting system for global reactive gases in the troposphere and stratosphere – The GEMS GRG project

XY0075; EGU2007-A-09887; AS3.10-1MO2P-0075

Flemming, J.; Dethof, A.; Ordóñez, C.; Moinat, P.; Segers, A.; Stein, O.; Schultz, M.

First results of the coupled forecast system of the GEMS subproject on Global Reactive Gases

XY0076; EGU2007-A-09999; AS3.10-1MO2P-0076

Eddounia, F.; Textor, C.; Granier, C.; Law, K.

An intercomparison and evaluation of chemistry transport models

XY0077; EGU2007-A-11681; AS3.10-1MO2P-0077

Damoah, R.; Stevenson, D.; Derwent, D.

Radiative Forcing from North American NO_x Emissions: dependence upon location and season of emission

XY0078; EGU2007-A-02225; AS3.10-1MO2P-0078

Scheifinger, H.; Kaiser, A.

Validation of trajectory statistical methods

XY0079; EGU2007-A-06846; AS3.10-1MO2P-0079

van Gent, J.; Spurr, R.; Van Roozendaal, M.

The Ring effect in ozone vertical column retrieval from satellite measurements

XY0080; EGU2007-A-03985; AS3.10-1MO2P-0080

Wagner, S.; Govaerts, Y.; Lattanzio, A.; Watts, P.

Simultaneous retrieval of aerosol load and surface reflectance using MSG/SEVIRI observations

XY0081; EGU2007-A-05851; AS3.10-1MO2P-0081

Kaloshin, G. A.; Piazzola, J.

Coastal aerosol simulation in the atmosphere surface layer

XY0082; EGU2007-A-09725; AS3.10-1MO2P-0082

Morcrette, J.-J.; Benedetti, A.; **Boucher, O.;** Bechtold, P.; Beljaars, A.; Serrar, S.; Suttie, M.; Tompkins, A.; Untch, A.
GEMS-Aerosol at ECMWF: An Update

Biogeosciences

BG3.03 Fluvial networks and biogeochemistry (co-listed in HS) – Posters

Convener: Battin, T.

Co-Convener(s): Rinaldo, A.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 13:30–15:00

Poster Area Foyer BG

Chairperson: N.N.

BG0001; EGU2007-A-01051; BG3.03-1MO3P-0001

Bertuzzo, E.; Maritan, A.; Gatto, M.; Rodriguez-Iturbe, I.; Rinaldo, A.

River networks and ecological corridors: reactive transport on fractals, migration fronts, hydrochory

BG0002; EGU2007-A-02205; BG3.03-1MO3P-0002

Rice, S.P.; Ferguson, R.I.; Hoey, T.B.

Aggradation at tributary confluences as a control on biodiversity in river networks

BG0003; EGU2007-A-05930; BG3.03-1MO3P-0003

Paik, K.; Kumar, P.

New findings on the topology of tree networks: inevitable self-similarity and diverse hierarchical density

BG5.08 Natural and anthropogenic environmental change as evidenced in high-resolution continental archives (co-listed in CL)

Convener: Lotter, A.

Co-Convener(s): Heiri, O., MAGNY, M.

Lecture Room 20 (N)

Chairperson: LOTTER, A.F.

13:30–13:45; EGU2007-A-09278; BG5.08-1MO3O-001

Heiri, O.; Filippi, M.-L.; Arpent, E.; Lotter, A.F.

Lateglacial summer temperature in Northern Italy as reconstructed by fossil chironomid assemblages in Lago di Lavarone (1100 m asl)

13:45–14:00; EGU2007-A-06764; BG5.08-1MO3O-002
García-Amorena, I.; Wagner, F.; van Hoof, T.B.; Morla, C.;
 Gómez Manzanique, F.; Visscher, H.

The role of atmospheric CO₂ variability on the Holocene
 climate of the Northern Hemisphere – evidence from stom-
 atal frequency analysis of Iberian oak leaves

14:00–14:15; EGU2007-A-08050; BG5.08-1MO3O-003
Korhola, A.; Väliranta, M.; Seppä, H.; Tuittila, E.-S.;
 Laine, J.; Alm, J.

High resolution reconstruction of wetness dynamics in a
 southern boreal raised bog during the late Holocene

14:15–14:30; EGU2007-A-07484; BG5.08-1MO3O-004
Court-Picon, M.; de Beaulieu, J.-L.; Palet Martinez, J.-M.;
 Walsh, K.; Mocchi, F.; Segard, M.

Natural and anthropogenic Holocene environmental changes
 in mountainous areas (Champsaur, southern French Alps) as
 evidenced in high-resolution pollen, NPP and macrofossil
 records.

14:30–14:45; EGU2007-A-09090; BG5.08-1MO3O-005
Feeser, I.; Holmes, J.A.; O'Connell, M.

Reconstruction of hydrology, climate and human impact
 during the Holocene in the Burren National Park, western
 Ireland

14:45–15:00; EGU2007-A-04459; BG5.08-1MO3O-006
Feurdean, A.; Willis, K.J.

The importance of refugial population on Lateglacial and
 early Holocene vegetational changes in Romania

15:00 COFFEE BREAK

Chairperson: HEIRI, O.

15:30–15:45; EGU2007-A-00873; BG5.08-1MO4O-001
Ortu, E.; David, F.; Peyron, O.; Bordon, A.
 Pollen-inferred past climate reconstruction in the Alps: how
 to estimate the effect of elevation.

15:45–16:00; EGU2007-A-02545; BG5.08-1MO4O-002
Räsänen, S.; Froyd, C.; Goslar, T.; Suutari, H.; Nielsen, A.B.
 Assessing and developing palynological tools for quanti-
 tative reconstructions of human impact on vegetation in
 Fennoscandian boreal forests

16:00–16:15; EGU2007-A-04005; BG5.08-1MO4O-003
Gauthier, e.G.; Magny, m.M.; Peyron, o.P.
 Human impact and climatic oscillations during medieval
 times in central Jura Mountains (France and CH).

16:15–16:30; EGU2007-A-01465; BG5.08-1MO4O-004
De Vleeschouwer, F.; Gérard, L.; Goormaghtigh, C.;
 Mattioli, N.; Le Roux, G.; Fagel, N.
 Last two Millennia atmospheric lead and heavy metals in-
 puts in a Belgian peat bog: regional to global Human impacts

16:30–16:45; EGU2007-A-10899; BG5.08-1MO4O-005
Gobeil, C.; Tessier, A.
 Stable lead isotope ratios as stratigraphic markers in Eastern
 Canada

16:45–17:00; EGU2007-A-04256; BG5.08-1MO4O-006
Thevenon, F.; Anselmetti, F. S.; Bernasconi, S.;
 Williamson, D.; Sigl, M.; Schwikowski, M.
 Pyrogenic carbon quantification from lacustrine, oceanic,
 and glacier records.

17:00 END OF SESSION

BG5.08 Natural and anthropogenic environmental change as evidenced in high-resolution continental archives (co-listed in CL) – Posters

Convener: Lotter, A.
 Co-Convener(s): Heiri, O., MAGNY, M.
 Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 10:30–12:00

Poster Area Foyer BG

Chairperson: LOTTER, A.F.

BG0004; EGU2007-A-09453; BG5.08-1MO2P-0004
Court-Picon, M.; Peyron, O.; de Beaulieu, J.-L.; Bossuet, G.
 Late-Glacial vegetation and climate changes in mountain
 areas as inferred from pollen data : the high-resolution
 record of the Lauza peat bog (Champsaur, southern French
 Alps).

BG0005; EGU2007-A-03978; BG5.08-1MO2P-0005
 Peyron, O.; **Magny, M.**; de Beaulieu, J.L.; Drescher-
 Schneider, R.; Bordon, A.; Ortu, E.
 The climate in central Italy during the Last 15000 yrs BP:
 a quantitative reconstruction from Lake Accesa pollen/lake-
 levels records

BG0006; EGU2007-A-06639; BG5.08-1MO2P-0006
 Filippi, M.L.; Arpent, E.; **Heiri, O.**; Frisia, S.; Angeli, N.;
 van der Borg, K.; Blockley, S.
 Lake Lavarone Late-glacial to present palaeoenvironmental
 changes: a unique multi-proxy record from Trentino, NE
 Italy

BG0007; EGU2007-A-07591; BG5.08-1MO2P-0007
Luecke, A.; Brauer, A.; Kleinmann, A.; Merkt, J.;
 Schleser, G.H.
 Abrupt climate changes of the Late Glacial and seasonality:
 Evidences from varved lake sediments of Western Europe

BG0008; EGU2007-A-07363; BG5.08-1MO2P-0008
 Pirson, S.; **Court-Picon, M.**; Damblon, F.; Haesaerts, P.;
 Debenham, N.; Draily, C.
 Belgian cave entrance and rock-shelter sequences as
 palaeoenvironmental and palaeoclimatic data recorders: the
 example of the Walou cave multi-proxy study.

BG0009; EGU2007-A-08206; BG5.08-1MO2P-0009
Millet, L.; Heiri, O.; Giguet, C.; Desmet, M.; Magny, M.;
 Arnaud, F.
 Late Holocene summer temperature reconstruction from
 chironomids of Lake Anterne (northern Alps, France).

BG0010; EGU2007-A-09825; BG5.08-1MO2P-0010
Berner, U.; Hiete, M.; Freund, H.; Pott, R.; Kleinmann, A.
 High resolution Holocene climate variability preserved in
 yearly laminated lake sediments from southern and northern
 Germany

BG0011; EGU2007-A-10224; BG5.08-1MO2P-0011
Giguet-Covex, C.; Arnaud, F.; Poulenard, J.; Druart, J.C.;
 Reyss, J.L.; Enters, D.
 High resolution fingerprinting of eutrophication in hard
 water Lake Bourget (NW french Alps)

BG0012; EGU2007-A-09768; BG5.08-1MO2P-0012
Arnaud, F.; Aphrodyte project
 Tracking Holocene climate and land-use changes in the
 Alps: the interdisciplinary research projet "Aphrodyte"

BG0013; EGU2007-A-08646; BG5.08-1MO2P-0013
 O'Connell, M.; TIMECHS
 Holocene climate, lake-level and sea-level changes at the
 Atlantic fringe of Europe: multi-proxy evidence from
 calcareous sediments of An Loch Mór, Aran Islands

BG0014; EGU2007-A-05664; BG5.08-1MO2P-0014

Schmid, A.; Sturm, M.

An unique, high altitude, lacustrine sediment record of the Holocene to the Late Glacial: Lej da la Pisch, 2'770 m a.s.l.

BG0015; EGU2007-A-05630; BG5.08-1MO2P-0015

Sturm, M.; Kulbe, T.; Guizzoni, P.; Lami, A.; Marchetto, A.; Manca, M.; Pisch, R.; Guzzella, L.; Camusso, M.; Moiola, D.

Results of environmental multiparameter studies of sediment trap material of Lago Maggiore, Italy.

BG0016; EGU2007-A-05515; BG5.08-1MO2P-0016

Durost, S.; Ciais, P.; Édouard, J.L.; Étien, N.; Lambert, G.; Le Maire, G.; Masson, V.; Stievenard, M.; Pierre, M.

Influence of annual climate variability in growth of oaks : a case study from french forests.

BG0017; EGU2007-A-02922; BG5.08-1MO2P-0017

Schmidt, S.; Wagner, B.; Heiri, O.; Klug, M.

Chironomids as indicator for the Holocene climatic and environmental history of Store Koldewey, NE-Greenland

BG0018; EGU2007-A-06463; BG5.08-1MO2P-0018

Eastwood, W.; Roberts, N.; Haldon, J.; England, A.; Turner, R.; Jones, M

Late Holocene Palaeoecology of Cappadocia (Turkey): Multiproxy evidence from annually-laminated sediments from Nar Golu crater lake

BG0019; EGU2007-A-07181; BG5.08-1MO2P-0019

Develle, A-L.; Gasse, F.; Van Campo, E.; Herreros, J.; Vidal, L.; Williamson, D.; Hariri, M.; Sursok, A

Glacial-interglacial environmental and climatic changes in the Near-East: a multi-proxy analysis of the lacustrine series of the Yamouneh basin (Lebanon). Preliminary results.

BG6.0/SSS24 Geomicrobiology: mineralization, weathering and biofilms (co-organized by SSS)

Convener: Hutchens, E.

Co-Convener(s): Crovisier, J.

Lecture Room 19

Chairperson: N.N.

13:30–13:45; EGU2007-A-00008; BG6.0/SSS24-1MO3O-001

Féron, D

The electrochemistry in the biodegradation of metallic materials (solicited)

13:45–14:00; EGU2007-A-04360; BG6.0/SSS24-1MO3O-002

Hutchens, E.; Williamson, B. J.; Anand, M.; Ryan, M. P.; Herrington, R. J.

Bacteria-materials interactions and Fe isotope fractionation - discriminating MIC from electrochemical corrosion

14:00–14:15; EGU2007-A-06471; BG6.0/SSS24-1MO3O-003

Moroni, B.; Pitzurra, L.

Biodegradation of atmospheric pollutants in the corrosion of carbonate building stone: an experimental study

14:15–14:30; EGU2007-A-04434; BG6.0/SSS24-1MO3O-004

Berger, J.N.; Warr, L.N.; Lett, M-C.; Perdrial, N.

Effect of bacteria on the water storage and retention capacity of swelling clays

14:30–14:45; EGU2007-A-06229; BG6.0/SSS24-1MO3O-005

Fisk, M.; Storrie-Lombardi, M.; Josef, J

Intricate Textures at Glass-Clay Boundaries in Oceanic Basalts

14:45–15:00; EGU2007-A-05948; BG6.0/SSS24-1MO3O-006

Miot, J.; Benzerara, K.; Guyot, F.; Morin, G.; Kappler, A. Nanometer-scale study of biomineralization and basaltic glass weathering by anaerobic iron-oxidizing bacteria.

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-00179; BG6.0/SSS24-1MO4O-001

Gadd, G.M.

Bacterial and fungal transformations of minerals, metals and metalloids (solicited)

15:45–16:00; EGU2007-A-05240; BG6.0/SSS24-1MO4O-002

Rosling, A.; Suttle, KB; Johansson, E; van Hees, PAW; Banfield, JF

Soil fungi dissolving apatite in response to phosphorus availability

16:00–16:15; EGU2007-A-09404; BG6.0/SSS24-1MO4O-003

Wiktor, V.; Grosseau, P.; Guyonnet, R.; Garcia-Diaz, E.

Biodeterioration of cementitious matrix by fungi

16:15–16:30; EGU2007-A-04551; BG6.0/SSS24-1MO4O-004

Mitchell, J.; Beech, I.B.; Campbell, S.A.; Sunner, J.A.; Hotchkiss, S.; Smith, A.

Bacterial sulphur and iron cycling and deterioration of historic ships

16:30–16:45; EGU2007-A-05570; BG6.0/SSS24-1MO4O-005

GEOFFROY, V. A.; AOUAD, G.; CROVISIER, J.-L.

Siderophore production in the presence of silicates by *Pseudomonas aeruginosa*

16:45–17:00; EGU2007-A-00949; BG6.0/SSS24-1MO4O-006

Parmentier, M.; van der Lee, J.

modeling microbial and geochemical reactive transport : model development and applications to arsenic mobility

17:00 END OF SESSION

BG6.0/SSS24 Geomicrobiology: mineralization, weathering and biofilms (co-organized by SSS) – Posters

Convener: Hutchens, E.

Co-Convener(s): Crovisier, J.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 10:30–12:00

Poster Area Foyer BG

Chairperson: N.N.

BG0020; EGU2007-A-00013; BG6.0/SSS24-1MO2P-0020

Little, D.; Welch, S.; Field, J.; Rogers, S.

Low molecular weight organic acid exudates, soil microbial communities and mineral weathering in a temperate Australian forest soil

BG0021; EGU2007-A-00041; BG6.0/SSS24-1MO2P-0021

Duane, MJ

Biophysical and Biochemical weathering of coastal Morocco

BG0022; EGU2007-A-00167; BG6.0/SSS24-1MO2P-0022

Harneit, K.; Göksel, A.; Kock, D.; Klock, J.; Gehrke, T.; Sand, W.

Adhesion to sulfur and metal sulfide surfaces by leaching bacteria (cancelled)

BG0023; EGU2007-A-00303; BG6.0/SSS24-1MO2P-0023
Roux, S.; Feugeas, F.; Cornet, A.

The contribution of biofilms in concrete weathering: bioreceptivity of mortars and cement paste in natural fresh water

BG0024; EGU2007-A-00581; BG6.0/SSS24-1MO2P-0024
Garcia, B.; Blanchet, D.; Oger, P.; Dromart, G.; Beaumont, V.; Huc, A.; Haeseler, F.
Biologically-assisted silicate dissolution

BG0025; EGU2007-A-00763; BG6.0/SSS24-1MO2P-0025
Konishi, Y.; Ohno, K.; Shimanaka, S.; Sitoh, N.; Nomura, T.
Bioreductive deposition of noble metal nanoparticles on metal-reducing bacteria

BG0026; EGU2007-A-01420; BG6.0/SSS24-1MO2P-0026
Kolo, K.; Claeys, Ph.

Geometric bacteria: New patterns of oriented bacterial growth and adhesion to hematite surface with evidence of dissolution at bacteria-metal contact

BG0027; EGU2007-A-01475; BG6.0/SSS24-1MO2P-0027
Jada, A
Interactions of anionic polyelectrolytes with crystal lattice ions, from the nucleus to the crystal.

BG0028; EGU2007-A-01643; BG6.0/SSS24-1MO2P-0028
Farre, B.; Meibom, A.; Salomé, M.; Williams, C.T.; Dauphin, Y.

Nanostructures of the calcitic and aragonitic crystals of the pearl oyster shells and distribution of their mineralizing organic matrices

BG0029; EGU2007-A-02296; BG6.0/SSS24-1MO2P-0029
Aerts, S.; Van Geet, M.; De Boever, P.
Biodiversity of sulphate reducing bacteria in Boom Clay

BG0030; EGU2007-A-03141; BG6.0/SSS24-1MO2P-0030
Kim, S.H.; Lee, J.U.; Lee, J.S.; Chon, H.T.
Biosorption of lead by indigenous bacterium isolated from soil contaminated with lead and oil

BG0031; EGU2007-A-03422; BG6.0/SSS24-1MO2P-0031
Aouad, G.; Lors, C.; Hajj Chehade, M.; Damidot, D.
Developpment of a growth medium adapted to the study of the biodeterioration of the reinforced concrete by *Acidithiobacillus thiooxidans*

BG0032; EGU2007-A-03531; BG6.0/SSS24-1MO2P-0032
Weidler, G. W.; Dornmayr-Pfaffenhuemer, M.; Stan-Lotter, H.
Enhanced analysis of the community structure of a subsurface radioactive thermal spring in the Austrian Central Alps

BG0033; EGU2007-A-03577; BG6.0/SSS24-1MO2P-0033
Janots, D.A.; Pozzi, J.P.; **Aubourg, C.T.**
Sulfate-Reducing Bacteria (*Desulfovibrio desulfuricans*) activity monitored by magnetic measurements in Bure claystones (France)

BG0034; EGU2007-A-03768; BG6.0/SSS24-1MO2P-0034
Souza-Egipsy, V.; Aguilera, A.; González-Toril, E.; García-Moyano, A.; Amils, R.
Structure and Biomineralization of Eukaryotic Biofilms in an Extreme Acidic Environment the Río Tinto (SW Spain).

BG0035; EGU2007-A-04161; BG6.0/SSS24-1MO2P-0035
Dornmayr-Pfaffenhuemer, M.; Weidler, G.W.; Stan-Lotter, H.
Microscopic Examination of the Microbial Life of an Alpine Subsurface Thermal Spring

BG0036; EGU2007-A-04912; BG6.0/SSS24-1MO2P-0036
Jorand, F.; Zegeye, A.; Landry, F.; Ruby, C.
Biogenesis and biocycling of FeII-FeIII hydroxysalt green rusts

BG0037; EGU2007-A-06006; BG6.0/SSS24-1MO2P-0037
Gorbushina, A.A.; Chertov, O.G.

Fungal growth on bare rock surfaces - where do they get carbon from?

BG0038; EGU2007-A-06209; BG6.0/SSS24-1MO2P-0038
Smolander, A.; Levula, T.; Kitunen, V.
Response of soil C and N transformations in a Norway spruce stand to logging residue removal

BG0039; EGU2007-A-06310; BG6.0/SSS24-1MO2P-0039
Sanz-Montero, M.E.; Rodríguez-Aranda, J.P.
Microbial weathering of silicates in dolomite-precipitating environments. Miocene lacustrine deposits from the Duero and Madrid Basins, Spain.

BG0040; EGU2007-A-06749; BG6.0/SSS24-1MO2P-0040
Pineau, S.; Ghiglione, J.F.; Refait, P.; Sabot, R.; Jeannin, M.; Quillet, L.; Beech, I.B.; Dupont-Morral, I.
Corrosion products on carbon steel and microbial community structure in marine environments (cancelled)

BG0041; EGU2007-A-07253; BG6.0/SSS24-1MO2P-0041
Uusitalo, M.; Smolander, A.; Kitunen, V.
The effects of Scots pine and Norway spruce resin on C and N transformations in birch soil

BG0042; EGU2007-A-07906; BG6.0/SSS24-1MO2P-0042
Banerjee, N. R.; **Furnes, H.;** Simonetti, A.; Muehlenbachs, K.; Staudigel, H.; McLoughlin, N.; de Wit, M.; Van Kranendonk, M.
Radiometric Dating of Bioalteration Textures in Archean Basaltic Metaglasses

BG0043; EGU2007-A-08111; BG6.0/SSS24-1MO2P-0043
Tourney, J.; Ngwenya, B.T.; Mosselmans, J.F.W.; Tetley, L.
The effect of extracellular polymers (EPS) on the proton adsorption characteristics of the thermophile *Bacillus licheniformis* S-86.

BG0044; EGU2007-A-08135; BG6.0/SSS24-1MO2P-0044
Straub, K. L.; Schink, B.; Kraemer, S. M.
Indirect microbial ferric iron reduction via sulfur cycling

BG0045; EGU2007-A-09890; BG6.0/SSS24-1MO2P-0045
Thorseth, I.H.; Kruber, C.; Hellevang, H.; Pedersen, R.B.
Seafloor alteration of basaltic glass: Textures, geochemistry and endolithic microorganisms

BG0046; EGU2007-A-10768; BG6.0/SSS24-1MO2P-0046
Nuester, J.; Liermann, L. J.; Brantley, S. L.
Kinetics of Fe release from organic ligand complexes: implications for abiotic and biotic control of iron cycling in subsurface environments

BG0047; EGU2007-A-10784; BG6.0/SSS24-1MO2P-0047
Hughes, K.; Southam, G.
The biogeochemical development and community structure of desert potholes

BG0048; EGU2007-A-11140; BG6.0/SSS24-1MO2P-0048
Wang, Y.; Morin, G.; Ona-nguema, G.; Juillot, F.; Guyot, F.; Calas, G.; Casiot, C.; Bruneel, O.; Proux, O.; Brown Jr., G.E.
Structure and reactivity of biogenic iron (oxyhydr)oxides: Control of arsenic mobility in anaerobic environments and in acid mine drainage

BG0049; EGU2007-A-06146; BG6.0/SSS24-1MO2P-0049
Carrasco, N.; Pesch, M-L.; Kraemer, S. M.; Kretzschmar, R.
Influence of adsorbed bio-surfactants on ligand promoted dissolution of metal hydroxides.

BG6.02 Molecular Geomicrobiology: Linking geochemical processes to community structure, genomic and evolutionary biology (co-sponsored by ISME)

Convener: Friedrich, M.
Co-Convener(s): Krüger, M.
Lecture Room 19
Chairperson: N.N.

8:30–8:45; EGU2007-A-01059; BG6.02-1MO10-001

Lappin-Scott, H.M.

Microbial structure and function towards understanding geomicrobiology processes (solicited)

8:45–9:00; EGU2007-A-01095; BG6.02-1MO10-002

Küsel, K

Linking diversity and processes to biogeochemical depth gradients in acidic fens

9:00–9:15; EGU2007-A-10808; BG6.02-1MO10-003

Kato, K.; Nagaosa, K.; Kimura, H.; Hama, K.; Kuni-
maru, T.; Aoki, K.

Multi-drilling of Sedimentary Rock Reveals Deep Terrestrial Subsurface Bacterial Distribution Constrained by Geological Setting

9:15–9:30; EGU2007-A-01062; BG6.02-1MO10-004

Friedrich, M.W.; Pommerenke, B.; Seifert, R.; Krueger, M.
Unexpected microbial diversity in anaerobically methane-oxidizing mats of the Black Sea

9:30–9:45; EGU2007-A-06433; BG6.02-1MO10-005

Heller, C; Hoppert, M.; Schäfer, N.; Reitner, J

Immunocytochemical localization of coenzyme M reductase in anaerobic methane-oxidizing archaea

9:45–10:00; EGU2007-A-04284; BG6.02-1MO10-006

Van Cappellen, P.; Lin, B.; Hyacinthe, C.; Röling, W.

Dissimilatory iron reduction in estuarine sediments: microbial diversity and Fe(III) bioavailability

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-11336; BG6.02-1MO20-001

Wagner, M.

Raman-FISH and isotope arrays: New approaches for linking processes with microbial communities (solicited)

10:45–11:00; EGU2007-A-05199; BG6.02-1MO20-002

Ménez, B.; Rommevaux-Jestin, C.; Salomé, M.; Wang, Y.;
Philippot, P.; Gérard, E.

Detection and phylogenetic identification of labelled prokaryotic cells on mineral surfaces using electronic microscopy and X-Ray microimaging

11:00–11:15; EGU2007-A-09325; BG6.02-1MO20-003

Palacios, C.; Amaral-Zettler, L.; Zettler, E.; Amils, R.;
Sogin, M.L.

When fingerprinting joins sequencing comprehensive microbial ecology studies become possible: The Río Tinto model revisited through the new SARST-V6 ribotyping method

11:15–11:30; EGU2007-A-03327; BG6.02-1MO20-004

Gray, N.; Aitken, C.; Rowan, A.; Brown, A.; Head, I.;
Jones, M.; Larter, S.

Anaerobic petroleum degradation and methane generation in the subsurface: organisms and mechanisms

11:30–11:45; EGU2007-A-01121; BG6.02-1MO20-005

Kaestner, M.; Fischer, A.; Nijenhuis, I.; Geyer, R.; Stelzer, N;
Bombach, P; Tebbe, CC; Richnow, HH

In situ microbial activity assessment in contaminated aquifers

11:45–12:00; EGU2007-A-10704; BG6.02-1MO20-006

Lloyd, J.R.; Lear, G.; Gault, A.G.; Rowland, H.A.L.;
Pederick, R.L.; Polya, D.A.; Vaughan, D.J.; van Dongen, B.;

Pancost, R.D.; Charnock, J.M.

Using stable isotope probing to dissect the microbial controls on arsenic speciation in SE Asian aquifers

12:00 END OF SESSION

BG6.02 Molecular Geomicrobiology: Linking geochemical processes to community structure, genomic and evolutionary biology (co-sponsored by ISME) – Posters

Convener: Friedrich, M.

Co-Convener(s): Krüger, M.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 13:30–15:00

Poster Area Foyer BG

Chairperson: N.N.

BG0050; EGU2007-A-01122; BG6.02-1MO3P-0050

Miltner, A; Kindler, R; Lüders, T; Friedrich, M; Kästner, M
Fate of microbial biomass carbon in soil – Microbial food webs and incorporation into soil organic matter

BG0051; EGU2007-A-06907; BG6.02-1MO3P-0051

Kittelmann, S.; **Friedrich, M.W.**

Characterisation of PCE to trans-DCE dechlorinating bacterial populations in Wadden Sea sediments by RNA-based stable isotope probing

BG0052; EGU2007-A-07017; BG6.02-1MO3P-0052

Mueller, A.; **Friedrich, M.W.**

Identification of dissimilatory iron-reducing bacteria in anoxic rice soil microcosms by stable isotope probing of RNA

BG0053; EGU2007-A-04968; BG6.02-1MO3P-0053

Metje, M.; **Frenzel, P.**

Methanogenesis and anaerobic acetate turnover in an acidic peat bog

BG0054; EGU2007-A-04962; BG6.02-1MO3P-0054

Jerman, V.; Mandic-Mulec, I; Frenzel, P

The competition between iron reduction and methanogenesis in an upland soil upon flooding

BG0055; EGU2007-A-01264; BG6.02-1MO3P-0055

Krüger, M.; Beckmann, S.; Engelen, B.; Cypionka, H.;
Thielemann, T.

Microbial Methane Formation from Coal and Wood - Possible Sources for Biogenic Methane in Abandoned Coal Mines

BG0056; EGU2007-A-01648; BG6.02-1MO3P-0056

Agogué, H.; Brink, M.; Arrieta, J. M.; Herndl, G. J.

Bacterial and archaeal diversity in the meso- and bathypelagic waters of the eastern North Atlantic basin

BG0057; EGU2007-A-01280; BG6.02-1MO3P-0057

Liebner, S.; Harder, J.; Wagner, D.

How do the environmental extremes of Siberian permafrost soils shape the composition of the bacterial soil community?

BG0058; EGU2007-A-02008; BG6.02-1MO3P-0058

Koch, K.; Wagner, D.; Knoblauch, C.

Diversity of Archaea in submarine permafrost sediments of the Laptev Sea, Siberian Arctic

BG0059; EGU2007-A-00536; BG6.02-1MO3P-0059

Nelson, D.; Ohene-Adjei, S; Hu, FS; Cann, I; Mackie, R

Bacterial diversity and distribution in the Holocene sediments of a northern temperate lake

BG0060; EGU2007-A-11288; BG6.02-1MO3P-0060

Rossi, P.; Varidel, I.; Holliger, C.

Numerical ecology allows linking microbial community structures and geochemical processes

BG0061; EGU2007-A-03871; BG6.02-1MO3P-0061

Avrahami, S; Bohannan, B.J.M

Interaction Between Environmental Conditions Changes the Function and The Community of Soil Ammonia Oxidizers

BG0062; EGU2007-A-06711; BG6.02-1MO3P-0062

De los Ríos, A.; Wierzchos, J.; Grube, M.; Sancho, L.G.; Ascaso, C.

Community structure and micro-scale distribution in endolithic microbial desert ecosystems

BG0063; EGU2007-A-04345; BG6.02-1MO3P-0063

Hutchens, E.; Clipson, N.; McDermott, F.

What can DNA tell us about microbial colonization of rock surfaces?

BG0064; EGU2007-A-07833; BG6.02-1MO3P-0064

Daae, F.L.; Ovreas, L.; Bjelland, T.; Okland, I.; Thorseth, I.; Pedersen, R.B.

Microbial life associated with weathering of ultramafic rocks

BG0065; EGU2007-A-10461; BG6.02-1MO3P-0065

Postec, A.; Warthmann, R.; Vasconcelos, C.; McKenzie, J. A.

Investigation of a microbial community involved in dolomite formation, Lagoa Vermelha, Brazil

BG0066; EGU2007-A-11096; BG6.02-1MO3P-0066

Warr, L.N.; Berger, J.; Lett, M-C; Khodja, M.

An experimental study of clay-bacterial interactions in Prestige oil

BG0067; EGU2007-A-06855; BG6.02-1MO3P-0067

Ewald, E.-M.; Meißner, S.; Löffler, S.; Büchel, G.; Küsel, K. Characterization of Geochemical Barriers in a former Uranium Mining District

BG0068; EGU2007-A-07150; BG6.02-1MO3P-0068

Monteiro, S.; Lloyd, J.R.; Mills, R.; Benning, L.

Metal resistance mechanisms in hydrothermal microbial communities

BG0069; EGU2007-A-11083; BG6.02-1MO3P-0069

Kadar, E

Bacteria-mediated metal deposition within the byssal threads of the deep-sea hydrothermal vent mussel *Bathymodiolus azoricus*

BG0070; EGU2007-A-11636; BG6.02-1MO3P-0070

Peltola, M.; Niinimäki, P.; Pulliainen, M.; Laurila, T.; Selin, J.-F.; Kiviharju, A.; Salkinoja-Salonen, M.S.

Bioaccumulation of manganese oxides in industrial heat exchangers

BG0071; EGU2007-A-10667; BG6.02-1MO3P-0071

Demergasso, C.; Escudero, L.; Meneses, D.; Urtuvia, V.; Pedrós-Alió, C.

Culture of Psychrophilic strain from the predominant genus in the most saline environment of the Salar de Ascotán, Northern Chile

BG0072; EGU2007-A-01061; BG6.02-1MO3P-0072

Krueger, M.; Thielemann, T.

Microbial methane formation from coal and wood - Possible sources for biogenic methane in abandoned coal mines (cancelled)

Climate: Past, Present, Future

CL0 Open Session on Climatology and Palaeoclimatology (including Milutin Milankovic Medal Lecture)

Convener: Rousseau, D.

Co-Convener(s): Sicre, M.

Lecture Room 13 (F1)

Chairperson: ROUSSEAU, D., SICRE, M.

10:30–10:45; EGU2007-A-00040; CL0-1MO2O-001

Lastovicka, J.; Akmaev, R.A.; Beig, G.; Bremer, J.; Emmer, J.T.

Overall Pattern of Global Change in the Upper Atmosphere

10:45–11:00; EGU2007-A-06737; CL0-1MO2O-002

Winkelkemper, T.; Chen, X.; Seitz, F.; Walter, C.; Hense, A.

Simulation of Earth rotation parameters with atmospheric and oceanic GCMs

11:00–11:15; EGU2007-A-04323; CL0-1MO2O-003

Semmler, T.; McGrath, R.; Wang, S.; Hanafin, J.; Dunne, S.; Nolan, P.

Northern hemispheric simulation with a regional climate model

11:15–11:30; EGU2007-A-03428; CL0-1MO2O-004

demuzere, M.; Werner, M.; Van Lipzig, N.P.M; Roeckner, E.

An analysis of past, present and future ECHAM5 pressure fields using a classification of circulation patterns.

11:30–11:45; EGU2007-A-06076; CL0-1MO2O-005

Zhang, J.; Walsh, J.E.

Climate impacts of a greener north

11:45–12:00; EGU2007-A-03665; CL0-1MO2O-006

Hünicke, B.; Zorita, E

Trends in the amplitude of Baltic Sea level annual cycle

12:00 LUNCH BREAK

Chairperson: ROUSSEAU, D., SICRE, M.

13:30–14:00; EGU2007-A-05820; CL0-1MO3O-001

Wang, P.X.

Feeling the Earth's pulse from global monsoon records (Milutin Milankovic Medal Lecture) (solicited)

14:00–14:15; EGU2007-A-00586; CL0-1MO3O-002

Alkama, R.; Kageyama, M.; Ramstein, G.

Impact of a realistic river routing in a coupled ocean-atmosphere simulation of the last glacial maximum climate

14:15–14:30; EGU2007-A-00560; CL0-1MO3O-003

Penaud, A.; Eynaud, F.; Turon, J.-L.; Zaragosi, S.; Bourillet, J.-F.

High resolution micropaleontological evidences (dinoflagellate cysts and fresh algae *Pediastrum*) for the deglacial seasonal events occurring during MIS2 and MIS6 on the NW European Margin

14:30–14:45; EGU2007-A-05205; CL0-1MO3O-004

Sicre, M.-A.; Ezat, U.; Mazaud, A.; Schmidt, S.; Turon, J.-L.

Linking atmospheric and oceanic circulations in the Southern Indian Ocean during the last glacial period

14:45–15:00; EGU2007-A-04181; CL0-1MO3O-005

Ivanova, E.V.; Beaufort, L.; Vidal, L.

Millennial scale variability of sea-surface temperatures and planktic assemblages in the Eastern Equatorial Pacific: a comparison of penultimate and last climatic cycles

15:00 COFFEE BREAK

Chairperson: ROUSSEAU, D., SICRE, M.

15:30–15:45; EGU2007-A-06141; CL0-1MO4O-001
Van Ommen, T.; Loulergue, L.; Chappellaz, J.; Morgan, V.; Spahni, R.; Schilt, A.; Curran, M.; Stocker, T.
 The 8200 B.P. climate event in the Southern Hemisphere

15:45–16:00; EGU2007-A-09478; CL0-1MO4O-002
Beltran, C.; Sicre, M.A.; de Rafélis, M.; Minoletti, F.; Renard, M.
 Estimating Mid-Pliocene sea-surface temperature and salinity variations in the orbitally-controlled deposits from Punta Piccola section (South Sicily) : A combined approach using coccolith $\delta^{18}O$ and alkenone records.

16:00–16:15; EGU2007-A-06796; CL0-1MO4O-003
Lindström, S.; Petersen, H.I.; Nielsen, L.H.
 Palynovegetational development of a Middle–Late Miocene coal-bearing rift succession in Vietnam – climatic versus tectonic controls

16:15–16:30; EGU2007-A-09622; CL0-1MO4O-004
Belmecheri, S.; von Grafenstein, U.; Bordon, A.; Andersen, N.; Lezine, A.M.; Mazaud, A.; Grenier, C.
 Last glacial-interglacial cycle palaeoclimatology and palaeoecology reconstruction in the southern Balkans: an ostracod stable isotope record from Lake Ohrid (Albania).

16:30–16:45; EGU2007-A-10149; CL0-1MO4O-005
Schaber, K.; Sirocko, F.
 The first indicators for permafrost at the beginning of the glacial maximum in sediment cores from Eifel dry maars.

16:45–17:00; EGU2007-A-06325; CL0-1MO4O-006
Rossignol, J.; Rousseau, D.-D.; Antoine, P.
 The Eustis loess sequence, Nebraska: paleoenvironment reconstruction of the Last Glacial Maximum from high resolution mollusc data

17:00 END OF SESSION

CL0 Open Session on Climatology and Palaeoclimatology (including Milutin Milankovic Medal Lecture) – Posters

Convener: Rousseau, D.
 Co-Convener(s): Sicre, M.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: ROUSSEAU, D., SICRE, M.

XY0083; EGU2007-A-04983; CL0-1MO5P-0083
Kapochkin, B.B.; **Dolia, V.D.**
 Current global rise of temperature in conditions of anomalous changes of the Earth form

XY0084; EGU2007-A-00075; CL0-1MO5P-0084
Navuga, R.; Gabula, E.F.
 The Impact of Climate change on Glaciation, in the Rwenzori mts National Park, Uganda.

XY0085; EGU2007-A-00138; CL0-1MO5P-0085
Schmidt, R.; Kamenik, C.
 North Atlantic versus Mediterranean climate forcing in the southern Austrian Alps during the last 4000 years

XY0086; EGU2007-A-00223; CL0-1MO5P-0086
KOCH-LARROUY, A.; MADEC, G.; BOURUET-AUBERTOT, P.; GERKEMA, T.; BESSIERES, L.; MOLCARD, R.
 On the transformation of Pacific Water into Indonesian Throughflow Water by internal tidal mixing

XY0087; EGU2007-A-00372; CL0-1MO5P-0087
Podobina, V.; Kseneva, T.
 Recent data on the Upper Cretaceous foraminiferal assemblages and stratigraphy of the south-eastern area of Western Siberia

XY0088; EGU2007-A-01168; CL0-1MO5P-0088
Planchon, O.; Bernard, V.; Dubreuil, V.; Blain, S.
 Contribution of dendrochronology to the study of droughts in northwestern France (late XIX–XXth century)

XY0089; EGU2007-A-02158; CL0-1MO5P-0089
Wielgolaski, F.E.; Nordli, Ø.; Karlsen, S.R.
 Spatial and temporal analyses of long time series in phenological observations from Norway related to temperature

XY0090; EGU2007-A-02216; CL0-1MO5P-0090
Scheifinger, H.; Koch, E.; Matulla, C.; Cate, P.
 New frontiers in plant phenological research

XY0091; EGU2007-A-02968; CL0-1MO5P-0091
Sionneau, T.; Bout-Roumazielles, V.; Biscaye, P.E.; Van Vliet-Lanoë, B.; Bory, A.
 Clay mineral distribution over the North American continent and Northern Gulf of Mexico: Sources, transport and depositional processes.

XY0092; EGU2007-A-03082; CL0-1MO5P-0092
Hays, J.
 Radiolaria as indicators of late Pleistocene surface water stratification in the Bering Sea

XY0093; EGU2007-A-03674; CL0-1MO5P-0093
Pierau, R.; Hanebuth, T.; Henrich, R.
 Late Quaternary turbidite activity in the Dakar Canyon: frequency and climate control

XY0094; EGU2007-A-03779; CL0-1MO5P-0094
Meggers, H.; Baumann, K.-H.; Stuut, J.-B.; Vogt, C.; Wagner, T.
 Holocene millennial scale variability in surface and deepwater records in the North Atlantic (ODP Site 980, Feni Drift)

XY0095; EGU2007-A-04909; CL0-1MO5P-0095
Mileta, M.
 Winter trends of number of the days with unusual temperatures in Zagreb

XY0096; EGU2007-A-05193; CL0-1MO5P-0096
Smith, A.M.
 Measurement of atmospheric $14CH_4$ in Antarctic ice over the agro-industrial period: a status report.

XY0097; EGU2007-A-05225; CL0-1MO5P-0097
Markovic, S.B.; Bokhorst, M.P.; Vandenberghe, J.; Gaudenyi, T.; Frechen, M.; Jovanovic, M.; Machalet, B.
 High-resolution Lower Pleniglacial paleoclimatic record in the Titel (Vojvodina, Serbia) loess sequence

XY0098; EGU2007-A-05292; CL0-1MO5P-0098
Haidu, I.
 A common memory in the climatic series: the alternative divergent trends

XY0099; EGU2007-A-05440; CL0-1MO5P-0099
Kalvova, J.; **Pisoff, P.**
 Evolution profiles of annual cycle in global temperature fields during last 50 years

XY0100; EGU2007-A-05748; CL0-1MO5P-0100
Mora, C.
 Daily regime of the sea breeze in a coastal mountain (Serra da Arrábida, Portugal)

XY0101; EGU2007-A-05751; CL0-1MO5P-0101

Mora, C.

Temporal and spatial evolution of air temperature patterns in a Mediterranean mountain (Serra da Estrela, Portugal)

XY0102; EGU2007-A-06416; CL0-1MO5P-0102

Bochníček, O.; **Faško, P.**; Kajaba, P.; Mikulová, K.; Pecho, J.; Šťastný, P.

Objective spatial Analysis of Water Equivalent of Snow Cover in Slovakia

XY0103; EGU2007-A-04570; CL0-1MO5P-0103

Dall'Amico, M.; Hornsteiner, M.

Estimating daily and monthly mean temperatures from daily minima and maxima

XY0104; EGU2007-A-07656; CL0-1MO5P-0104

Dutay, J-C.; Roy-Barman, M.; Lacan, F.; Bopp, L

231Pa/ 230 Th ratio, a proxy of the past ocean thermohaline circulation. Study of the influence of particle type and size with the coupled ocean-biogeochemical model NEMO/TOP.

XY0105; EGU2007-A-07685; CL0-1MO5P-0105

Sensoy, S.

Unexplored sources of Turkish climate data

XY0106; EGU2007-A-08253; CL0-1MO5P-0106

Koren', T.N.; Sobolev, N.N.; Tolmacheva, T.Yu.; Petrov, E.O.

Geodynamic settings and depositional environments of carbon rich sediments in Russia

XY0107; EGU2007-A-08255; CL0-1MO5P-0107

Chromá, K.; Brázdil, R.; Dobrovolný, P.; Tolasz, R.

Climatic fluctuation in the Czech Republic in the period 1961-2005

XY0108; EGU2007-A-08299; CL0-1MO5P-0108

Dubrovsky, M.; Grieser, J.; Kysely, J.

Performance of two weather generators at different climates

XY0109; EGU2007-A-08506; CL0-1MO5P-0109

Riesen, K.; Naef, F.

What can Neolithic and Bronze Age lake dwellings tell us about former Climate Change?

XY0110; EGU2007-A-09010; CL0-1MO5P-0110

Watrin, J.; Lézine, A.-M.; Gajewski, K.; Vincens, A.; Bar-Hen, A.

Pollen-plante-climat relation in Sub-Saharan Africa

XY0111; EGU2007-A-09117; CL0-1MO5P-0111

Laeppe, T.; Lohmann, G.

Harmonic responses to climate cycles

XY0112; EGU2007-A-09332; CL0-1MO5P-0112

Weitzenkamp, B.; Schneider, C.; Kilian, R.; Spiecker, H.; Kahle, H.-P.

Regional climate and tree growth at Gran Campo Nevado, Chilean Patagonia

XY0113; EGU2007-A-09485; CL0-1MO5P-0113

Court-Picon, M.; Peyron, O.; de Beaulieu, J.-L.; Bossuet, G. Late-Glacial vegetation and climate changes in mountain areas as inferred from pollen data : the high-resolution record of the Lauza peat bog (Champsaur, southern French Alps).

XY0114; EGU2007-A-09597; CL0-1MO5P-0114

Matthews, H. D.; Caldeira, K.

Climate consequences of employing geoengineering as an alternative to carbon emissions reductions

XY0115; EGU2007-A-10318; CL0-1MO5P-0115

Pérez-Cruz, L.; Urrutia-Fucugauchi, J.

Laminae in Holocene sediments from the southern Gulf of California: Its Origin and paleoclimatic and paleoceanographic implication

XY0116; EGU2007-A-10659; CL0-1MO5P-0116

Beck, C.; Philipp, A.; Jacobeit, J.

An intercomparison of selected circulation type classifications for the European region

XY0117; EGU2007-A-10714; CL0-1MO5P-0117

Grieser, J.; Munoz, G.; Thomas, A.; Gommès, R.

CLIMWAT - properties and interpolation approach of the new FAO Reference Evapotranspiration global dataset

XY0118; EGU2007-A-10906; CL0-1MO5P-0118

McDonald, A. B.

The Tiamat Hypothesis

XY0119; EGU2007-A-11072; CL0-1MO5P-0119

Voskresenskaya, E.

Climate variability in the European region associated with global processes in the ocean-atmosphere system

XY0120; EGU2007-A-10725; CL0-1MO5P-0120

John, I.; Brandt, K.; Bergsträsser, A.; Görlitz, J.; Grote, J.; Ryslavy, T.; Linke, C.; Endlicher, W.

Investigation on the dynamics of migration patterns of selected bird species against the background of recent Climate Change in Brandenburg (Germany)

XY0121; EGU2007-A-11648; CL0-1MO5P-0121

Deaddis, M.; Donegana, M.; Pini, R.; Ravazzi, C.; Wick, L.; De Amicis, M.; Marchetti, M.; Monegato, G.; Perego, R.; Ferrari, V.

The onset of the Last Glacial Maximum in Northern Italy: chronostratigraphical and paleobiological evidence from alluvial plain and lacustrine successions

CL2 Monthly, seasonal and decadal forecasting (co-listed in NP & AS)

Convener: van Oldenborgh, G.

Co-Convener(s): Doblas-Reyes, F., Liniger, M.

Lecture Room 14

Chairperson: N.N.

10:30–10:45; EGU2007-A-05586; CL2-1MO2O-001

Morse, A. P.

Requirements for the end-to-end application of seamless ensemble prediction systems for forecast users in Africa.

10:45–11:00; EGU2007-A-10413; CL2-1MO2O-002

San-Martín, D.; **Cofiño, A.S.**; Gutiérrez, J.M.

An ENSEMBLES Web Portal for Seasonal Statistical Downscaling

11:00–11:15; EGU2007-A-04298; CL2-1MO2O-003

Weigel, A.P.; Liniger, M.A.; Appenzeller, C.

Can probabilistic multi-models really enhance prediction skill?

11:15–11:30; EGU2007-A-04233; CL2-1MO2O-004

Vitart, F. P.; **Weisheimer, A.**

Dynamical seasonal forecasting of tropical storms

11:30–11:45; EGU2007-A-05621; CL2-1MO2O-005

Fletcher, C.G.; Kushner, P.J.; Cohen, J.

How reliable is Eurasian snow cover as a seasonal climate predictor?

11:45–12:00; EGU2007-A-05688; CL2-1MO2O-006
 Keenlyside, N.; **Latif, M.**; Jungclaus, J.; Kornblueh, L.;
 Roeckner, E.
 Forecasting North Atlantic Decadal Climate Variability
 (solicited)

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2007-A-05189; CL2-1MO3O-001
Zampieri, M.; Vautard, R.; Yiou, P.; d'Andrea, F.; de
 Noblet, N.; Viovy, N.; Cassou, C.; Polcher, J.; Ciais, P.;
 Kageyama, M.
 Progresses in understanding summertime European heat and
 drought waves (solicited)

13:45–14:00; EGU2007-A-02175; CL2-1MO3O-002
Bolius, D.; Calanca, P.; Weigel, A.; Liniger, M. A.
 Prediction of moisture availability in agricultural soils using
 probabilistic monthly forecasts

14:00–14:15; EGU2007-A-04214; CL2-1MO3O-003
 Vitart, F.P.; **Doblas Reyes, F**
 Monthly Forecasting at ECMWF

14:15–14:30; EGU2007-A-03997; CL2-1MO3O-004
Vintzileos, A.; Pan, H.-L.; Behringer, D.; Saha, S.;
 Stokes, D.
 Impact of atmospheric resolution and atmospheric/land
 initial conditions on subseasonal forecasting with the NCEP
 coupled forecasting system

14:30–14:45; EGU2007-A-06348; CL2-1MO3O-005
Xavier, P.K.; Duvel, J-P
 Validation of summer monsoon intraseasonal variability in
 the DEMETER hindcasts

14:45–15:00; EGU2007-A-09348; CL2-1MO3O-006
 Kroeger, J.; Kucharski, F.; Yoo, J. H.; Molteni, F.
 Improved hindcasts of Indian monsoon rainfall using a Tier
 1.5 approach

15:00 END OF SESSION

**CL2 Monthly, seasonal and decadal forecasting (co-listed
 in NP & AS) – Posters**

Convener: van Oldenborgh, G.
 Co-Convener(s): Doblas-Reyes, F., Liniger, M.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0122; EGU2007-A-02546; CL2-1MO5P-0122
Koenigk, T.; Mikolajewicz, U.
 Seasonal to interannual potential predictability of high
 northern latitude climate

XY0123; EGU2007-A-01500; CL2-1MO5P-0123
Cohen, J.; Fletcher, C.
 Verification of hemispheric-wide winter temperature fore-
 casts based on fall snow and atmospheric anomalies

XY0124; EGU2007-A-07320; CL2-1MO5P-0124
Shongwe, M. E.; Ferro, C.; Coelho, C.; van Olden-
 borgh, G.J.
 Predictability of cold spring seasons in Europe

XY0125; EGU2007-A-07652; CL2-1MO5P-0125
Liniger, M. A.; Mathis, H.; Appenzeller, C.
 Realistic greenhouse gas forcing and seasonal forecasts

XY0126; EGU2007-A-07515; CL2-1MO5P-0126
Baggenstos, D.; Weigel, A.P.; Liniger, M.A.; Appen-
 zeller, C.
 Probabilistic verification of ECMWF monthly forecasts

XY0127; EGU2007-A-01933; CL2-1MO5P-0127
Cazacioc, L.
 Verification of the performance of global circulation models
 in monthly temperature and precipitation simulation (can-
 celled)

XY0128; EGU2007-A-08455; CL2-1MO5P-0128
Doblas-Reyes, F.J.; Palmer, T.N.; Weisheimer, A.; Rod-
 well, M.; Jung, T.
 Reliability of precipitation: From seasonal forecasts to
 climate change projections

XY0129; EGU2007-A-02991; CL2-1MO5P-0129
Tomé, A.R.; Almeida, P.
 Usefull(ness) of NAO index for forecast of Monthly rainfall
 in Lisbon

XY0130; EGU2007-A-02164; CL2-1MO5P-0130
 Iglesias, I.; Lorenzo, M.N.; Taboada, J.J.
 Relations between the North Atlantic sea surface tempera-
 ture and the winter rainfall in Galicia (NW Spain)

XY0131; EGU2007-A-06813; CL2-1MO5P-0131
Pasqui, M.; Genesio, L.; Primicerio, J.; Crisci, A.;
 Benedetti, R.; Maracchi, G.
 Summer seasonal forecast in the Mediterranean area: a
 multiregressive approach.

XY0132; EGU2007-A-02332; CL2-1MO5P-0132
Sharifan, H.; Ghahraman, B
 Evaluation of rainfall forecasting in Golestan province

XY0133; EGU2007-A-10266; CL2-1MO5P-0133
Lucio, P. S.; Santos, L. A.; Silva, F. D.; Balbino, H. T.;
 Ferreira, D. B.; Salvador, M. A.
 Combining stochastic forecasts of attributes based on the
 Standardised Precipitation Index transformation design

XY0134; EGU2007-A-07386; CL2-1MO5P-0134
Frias, M.D.; Cofiño, C.S.; Sordo, C.; Gutierrez, J.M.
 Validation of System2 seasonal forecasts using an interval-
 based method

XY0135; EGU2007-A-04324; CL2-1MO5P-0135
Weigel, A.P.; Liniger, M.A.; Appenzeller, C.
 Probabilistic verification of weighted multi-models

XY0136; EGU2007-A-07177; CL2-1MO5P-0136
Higgins, S.; Broecker, J.; Clarke, L.; Judd, K.;
 Weisheimer, A.; Smith, L.A.
 Blending ensembles from multiple models

XY0137; EGU2007-A-10599; CL2-1MO5P-0137
Primo, C.; Gutierrez, J.M.; Rodriguez, M.A.
 Characterization of the spatio-temporal evolution of ensem-
 bles of initial perturbations

XY0138; EGU2007-A-06240; CL2-1MO5P-0138
Feddersen, H
 A method for statistical downscaling of seasonal ensemble
 predictions

XY0139; EGU2007-A-08229; CL2-1MO5P-0139
 Cattle, H.; **Boscolo, R.**
 CLIVAR activities in seasonal predictions

CL20 Probabilistic Forecasts of Climate and the Potential Impacts of Climate Change (co-listed in NP & ERE)

Convener: Stainforth, D.
Co-Convener(s): Forest, C.
Lecture Room 14
Chairperson: N.N.

15:30–15:45; EGU2007-A-04446; CL20-1MO4O-001
Keller, K.; Miltich, L.I.; Robinson, A.; Tol, R.S.J
How overconfident are current projections of anthropogenic carbon dioxide emissions? (solicited)

15:45–16:00; EGU2007-A-11592; CL20-1MO4O-002
O'Neill, B.; Sanderson, W.
Uncertainty and learning in population and emissions projections (solicited)

16:00–16:15; EGU2007-A-07155; CL20-1MO4O-003
Forest, C.; Sokolov, A.; Stone, P.; Stott, P.
Estimated PDFs of climate system properties and ensemble predictions for 21st century climate change

16:15–16:30; EGU2007-A-02794; CL20-1MO4O-004
Piani, C.; Sanderson, B.; Giorgi, F.; Frame, D.J.; Allen, M.R.; Stainforth, D.
Constraining predictions of regional climate change

16:30–16:45; EGU2007-A-06888; CL20-1MO4O-005
Smith, L.A.
Relating the diversity in our models to the uncertainty in our future (solicited)

16:45–17:00; EGU2007-A-08476; CL20-1MO4O-006
Weisheimer, A.; Palmer, T.N.; Doblas-Reyes, F.J.; Rodwell, M.; Jung, T.
Reliability of Climate-Change Projections of Precipitation: Towards "Seamless" Climate Prediction

17:00–17:15; EGU2007-A-03955; CL20-1MO4O-007
Goodess, C.M.; Harpham, C.; Jones, P.D.
Linking a stochastic weather generator with regional climate model output in a probabilistic framework

17:15 END OF SESSION

CL20 Probabilistic Forecasts of Climate and the Potential Impacts of Climate Change (co-listed in NP & ERE) – Posters

Convener: Stainforth, D.
Co-Convener(s): Forest, C.
Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0140; EGU2007-A-00776; CL20-1MO5P-0140
Cuellar, M.C.; Lopez, A.
Extraction of uncertain information and potential impacts from a GCMs Physical Ensemble.

XY0141; EGU2007-A-04993; CL20-1MO5P-0141
Tredger, E.; Smith, L.A.; Stainforth, D.
The impact of initial conditions in climate modelling

XY0142; EGU2007-A-04261; CL20-1MO5P-0142
Smith, L.A.; Tredger, E.; Penzer, J.; Stainforth, D.
Urns and experimental design in climate science

XY0143; EGU2007-A-08517; CL20-1MO5P-0143
Stainforth, D. A.; Tredger, E.; Smith, L.A.
Sources of Uncertainty in Model Based Climate Forecasts

XY0144; EGU2007-A-09156; CL20-1MO5P-0144
Broecker, J.; Smith, L. A.
Software for Constructing Forecasts from Ensembles: The EMTOOL

XY0145; EGU2007-A-09158; CL20-1MO5P-0145
Faull, N
Ensemble climate prediction with coupled climate models

XY0146; EGU2007-A-09630; CL20-1MO5P-0146
Frame, D.; Aina, T; Christensen, C; Faull, N; **Piani, C.;** Spicer, R; Stainforth, D; Allen, M; Yamazaki, K; Knight, S
21st Century climate change in climateprediction.net

XY0147; EGU2007-A-05853; CL20-1MO5P-0147
Knutti, R.
Quantification of Uncertainty in global Temperature Projections over the twenty-first Century: A Synthesis of multiple Models and Methods

XY0148; EGU2007-A-10752; CL20-1MO5P-0148
Mehrotra, R.; Sharma, A
Impact of atmospheric moisture in a rainfall downscaling framework for catchment scale climate change impact assessment

XY0149; EGU2007-A-09162; CL20-1MO5P-0149
Fowler, H.J.; Tebaldi, C.; Blenkinsop, S.; Smith, A.P.
Linking probabilistic climate scenarios with downscaling methods for impact studies

XY0150; EGU2007-A-04811; CL20-1MO5P-0150
Schneider von Deimling, T.; Held, H; Ganopolski, A; Rahmstorf, S
Improving climate change predictions by the use of paleo-data?

XY0151; EGU2007-A-03157; CL20-1MO5P-0151
Annan, J. D.; Hargreaves, J. C.
Multimodel ensemble methods for climate forecasting

XY0152; EGU2007-A-03156; CL20-1MO5P-0152
Annan, J. D.; Hargreaves, J. C.
Can we believe in high climate sensitivity?

XY0153; EGU2007-A-02626; CL20-1MO5P-0153
Buser, C.; Kuensch, H.R.; Schaer, C.
Uncertainties in predicting climate distributions: A Bayesian ensemble method

XY0154; EGU2007-A-02302; CL20-1MO5P-0154
Simonis, D.; Min, S.-K.; Hense, A.
Generation of Probabilistic Climate Change Projections by Bayesian Model Averaging

CL24 Modelling the Climates of the Late Quaternary

Convener: Weber, N.
Co-Convener(s): Hargreaves, J., Kageyama, M.
Lecture Room 25
Chairperson: WEBER, N.

13:30–14:00; EGU2007-A-00656; CL24-1MO3O-001
Otto-Bliesner, B.L.; Overpeck, J.T.; Marshall, S.J.; Miller, G.H.; Hu, A.
Arctic warmth and icefield retreat in the Last Interglaciation: model-data comparisons (solicited)

14:00–14:15; EGU2007-A-05282; CL24-1MO3O-002
Zhao, Y.; Harrison, S.P.
Mid-Holocene monsoons: a multi-model analysis of the inter-hemispheric differences in the responses to orbital forcing and ocean feedbacks

14:15–14:30; EGU2007-A-05287; CL24-1MO3O-003
Wagner, S; Jones, J; Widmann, M; Kapsar, F
 Climatic response to orbital, solar and greenhouse gas forcings during the mid-Holocene in transient simulations with the coupled GCM ECHO-G

14:30–14:45; EGU2007-A-04678; CL24-1MO3O-004
Gyllencreutz, R; Mangerud, J; Svendsen, J-I; Lohne, Ø
 DATED – A dating Database and GIS-based Reconstruction of the Eurasian Deglaciation

14:45–15:00; EGU2007-A-04804; CL24-1MO3O-005
Schneider von Deimling, T; Ganopolski, A; Held, H; Rahmstorf, S
 Climate sensitivity estimated from LGM ensemble simulations (solicited)

15:00 COFFEE BREAK

Chairperson: KAGEYAMA, M.

15:30–15:45; EGU2007-A-11375; CL24-1MO4O-001
Paul, A.; Franke, J.; Kucera, M.; Mulitza, S.
 Reviewing the Proxy-Data Evidence for the Ocean Circulation during the LGM (solicited)

15:45–16:00; EGU2007-A-10306; CL24-1MO4O-002
Roche, D.M.; Weber, S.L.; Renssen, H.
 The role of southern sea-ice export in the formation of deep waters in PMIP-2 simulations of the Last Glacial Maximum

16:00–16:15; EGU2007-A-00857; CL24-1MO4O-003
Alkama, R.; Kageyama, M.; Ramstein, G.
 Impact of a realistic river routing in a coupled ocean-atmosphere simulation of the last glacial maximum climate

16:15–16:30; EGU2007-A-10955; CL24-1MO4O-004
Abe-Ouchi, A.; Ohgaito, R.; Oka, A.; Yokoyama, Y.
 Global Response to Fresh Water Release under Different Climate States

16:30–16:45; EGU2007-A-00203; CL24-1MO4O-005
Petit, J.R.; Delmonte, B.
 A semi-empirical model for reproducing glacial/interglacial changes of dust and sea salt in central East Antarctica.

16:45–17:00; EGU2007-A-02790; CL24-1MO4O-006
Calov, R.; Ganopolski, A.
 Simulation of glacial Cycles with an Earth System Model of intermediate Complexity

17:00 END OF SESSION

CL24 Modelling the Climates of the Late Quaternary – Posters

Convener: Weber, N.

Co-Convener(s): Hargreaves, J., Kageyama, M.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: HARGREAVES, J.

XY0155; EGU2007-A-03291; CL24-1MO5P-0155
Hsu, Y. H.; Chou, C.; Wei, K. Y.
 Dynamical Mechanisms for Regional Tropical Precipitation Change during the Mid-Holocene

XY0156; EGU2007-A-05919; CL24-1MO5P-0156
Ohgaito, R.; Abe-Ouchi, A.
 Role of ocean on changes of the Asian and African monsoon during 6000 years before present and the effect of the bias of the simulation

XY0157; EGU2007-A-09196; CL24-1MO5P-0157
Renssen, H.; Goosse, H.; Muscheler, R.
 The impact of centennial-scale solar forcing on the Holocene climate: simulations with a coupled climate model

XY0158; EGU2007-A-11389; CL24-1MO5P-0158
te Raa, L.A.; Weber, S.L.; Dijkstra, H.A.
 Centennial modes in the Atlantic ocean due to solar variability during the Holocene

XY0159; EGU2007-A-10337; CL24-1MO5P-0159
Dadson, S.; Galewsky, J.
 Tropical Cyclone Climatology at the Last Glacial Maximum and mid-Holocene

XY0160; EGU2007-A-00160; CL24-1MO5P-0160
Kim, S.-J.; Crowley, T. J.; Erickson, D.; Govindasamy, B.; Duffy, P.; Lee, B. Y.
 High-resolution Climate Simulation of the Last Glacial Maximum

XY0161; EGU2007-A-02497; CL24-1MO5P-0161
Osipov, E.Yu.
 GIS reconstruction of LGM glaciation and climate in Lake Baikal watershed

XY0162; EGU2007-A-02387; CL24-1MO5P-0162
Kerschner, H.
 Glacier-climate models as palaeoclimatic information sources – examples from the Alpine Lateglacial period

XY0163; EGU2007-A-00406; CL24-1MO5P-0163
Colleoni, F.; Krinner, G.; Svensen, J.I.; Peyaud, V.; Ritz, C.
 Simulation of the Late Saalian (140 kyr BP) climate in Eurasia : Conditions for the existence of an "unusually" large ice sheet.

XY0164; EGU2007-A-03430; CL24-1MO5P-0164
Loutre, M.F.
 Glacial inception at the end of MIS11 : sensitivity tests

XY0165; EGU2007-A-02961; CL24-1MO5P-0165
 Tuenter, E.; **Weber, S.L.**
 Milankovitch variations in climate and associated variations in methane sources in the late Quaternary

XY0166; EGU2007-A-02952; CL24-1MO5P-0166
Weber, S.L.; Drijfhout, S.S.; PMIP members, The
 The glacial Atlantic overturning circulation in PMIP coupled model simulations

XY0167; EGU2007-A-06863; CL24-1MO5P-0167
Paul, A.; Franke, J; Kucera, M; Mulitza, S
 Wind Influence on the Glacial Ocean Circulation

XY0168; EGU2007-A-03160; CL24-1MO5P-0168
Hargreaves, J.C.; Abe-Ouchi, A.; Annan, J.D.
 Linking glacial and future climates through an ensemble of GCM simulations.

XY0169; EGU2007-A-05182; CL24-1MO5P-0169
Murakami, S.; Ohgaito, R; Abe-Ouchi, A; Crucifix, M; Otto-Bliesner, B
 Global scale energy and freshwater balance in the glacial climate

XY0170; EGU2007-A-08814; CL24-1MO5P-0170
Kageyama, M.; Guiot, J; Wu, H; Brewer, S; Peyron, O; Ramstein, G
 European and Mediterranean rainfall at the Last Glacial Maximum: model-data comparisons

XY0171; EGU2007-A-00773; CL24-1MO5P-0171
Lainé, A.; Kageyama, M.
 Energy transport in a "cold" (Last Glacial Maximum) and a "warm" (4xCO₂) climate

XY0172; EGU2007-A-03935; CL24-1MO5P-0172
Bozec, A.; Kageyama, M.; Ramstein, G.; Crépon, M.
 Impact of a Last Glacial Maximum sea-level drop on the circulation of the Mediterranean Sea

XY0173; EGU2007-A-04782; CL24-1MO5P-0173
Kislov, A.
 On the origin of climate change during the Pleistocene and Holocene

CL29/CL46 Millennial-scale variability / Solar forcing of climate

Convener: Johnsen, S.
 Co-Convener(s): Steig, E., Andersen, K., Blackford, J., Versteegh, G.
 Lecture Room 13 (F1)
 Chairperson: STEIG, E; BLACKFORD, J

8:30–8:45; EGU2007-A-10527; CL29/CL46-1MO1O-001
Haigh, J.D.
 Solar signal in recent climate (solicited)

8:45–9:00; EGU2007-A-02445; CL29/CL46-1MO1O-002
Blaauw, M.; Christen, J.A.; Mauquoy, D.; van der Plicht, J.; Bennett, K.D.
 Testing the timing of radiocarbon-dated events between proxy archives (solicited)

9:00–9:15; EGU2007-A-01968; CL29/CL46-1MO1O-003
Ditlevsen, P.; Andersen, K.; Svensson, A.
 The Dansgaard-Oeschger events are noise-induced. Statistical investigation of the proposed 1470 yr cycle (solicited)

9:15–9:30; EGU2007-A-01995; CL29/CL46-1MO1O-004
Blender, R.; Fraedrich, K.
 Modeling low frequency climate variability (solicited)

9:30–9:45; EGU2007-A-01556; CL29/CL46-1MO1O-005
Marchal, O.; Jackson, C.; Nilsson, J.; Paul, A.; Stocker, T.
 Millennial-scale climate variability: Insight from the theory of nonlinear vibrations (solicited)

9:45–10:00; EGU2007-A-08450; CL29/CL46-1MO1O-006
Ganopolski, A.; **Rahmstorf, S.;** Dokken, T.
 Towards a theory of abrupt glacial climate changes (solicited)

10:00 END OF SESSION

CL29/CL46 Millennial-scale variability / Solar forcing of climate – Posters

Convener: Johnsen, S.
 Co-Convener(s): Steig, E., Andersen, K., Blackford, J., Versteegh, G.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: JOHNSEN, J; VERSTEEGH, G

XY0174; EGU2007-A-00135; CL29/CL46-1MO5P-0174
Ozguc, A.; Pekmezci, G.
 Near-space influences on the meteorological parameters in Istanbul area

XY0175; EGU2007-A-04156; CL29/CL46-1MO5P-0175
Shumilov, O.I.; Kasatkina, E.A.; Aspholm, P.E.; Lukina, N.V.; Kirtsideli, I.Yu.
 Solar cycles in polar tree-ring records

XY0176; EGU2007-A-04762; CL29/CL46-1MO5P-0176
Goto-Azuma, K.; Igarashi, M.; Motoyama, H.; Kamiyama, K.; Shoji, H.; Fujii, Y.; Watanabe, O.; Hirabayashi, M.; Miyake, T.
 Millennial-scale variation of mineral dust at Dome Fuji, Antarctica during the last glacial period.

XY0177; EGU2007-A-05020; CL29/CL46-1MO5P-0177
Steig, E. J.
 A null hypothesis for millennial scale variability

XY0178; EGU2007-A-05108; CL29/CL46-1MO5P-0178
Müller, A.; Hope, P.
 Equatorial moisture transport in the Asia-Australia region during the last glacial maximum - evidence of an altered weathering regime in northern Australia

XY0179; EGU2007-A-05233; CL29/CL46-1MO5P-0179
Sprovieri, M.; Sprovieri, R.; Incarbona, A.; Pelosi, N.; Ribera D'Alcalà, M.
 Correlation between eastern Mediterranean and Greenland climate oscillations of the past 62,000 years

XY0180; EGU2007-A-05483; CL29/CL46-1MO5P-0180
Boes, X.; Piotrowska, N.; Morley, D.; Rioual, P.; Fagel, N.; Svensson, A.
 Comparison of Siberian (Baikal) and Greenland (GICC05) Chronologies over the Last Termination.

XY0181; EGU2007-A-06345; CL29/CL46-1MO5P-0181
Mueller, S. A.; Joos, F.; Muscheler, R.
 Radiocarbon production over the Holocene - Influence of carbon-cycle variations

XY0182; EGU2007-A-06978; CL29/CL46-1MO5P-0182
Blackford, J.; **Ellershaw, M.R.**
 Solar variability and the North West European peat bog record

XY0183; EGU2007-A-07997; CL29/CL46-1MO5P-0183
Röthlisberger, R.; NorthGRIP extended chemistry team
 How fast was rapid climate change during the last glacial period?

XY0184; EGU2007-A-08511; CL29/CL46-1MO5P-0184
Ingram, W
 Solar variation and climate: correlation and causation

XY0185; EGU2007-A-09111; CL29/CL46-1MO5P-0185
Schimanke, S.; Bürger, G.; Spanghel, T.; Cubasch, U.
 Idealized simulations of solar Gleisberg and Schwabe cycle using coupled climate models

XY0186; EGU2007-A-09130; CL29/CL46-1MO5P-0186
Versteegh, G.J.M.; de Leeuw, J.W.; Taricco, C.; Romero, A.
 Winter temperature and productivity in the Gulf of Taranto (Italy) and their possible relation to solar forcing

XY0187; EGU2007-A-09534; CL29/CL46-1MO5P-0187
Debret, M.; Bout-Roumazeilles, V.; Masson-Delmotte, V.; Crosta, X.; Desmet, M.; McManus, J.-F.; Massei, N.; Sebag, D.; Petit, J.-R.
 Climate cyclicity during the Holocene and Mid-Holocene transition

XY0188; EGU2007-A-09936; CL29/CL46-1MO5P-0188
Arz, H.W.; Lamy, F.; Ganopolski, A.; Nowaczyk, N.R.; Pätzold, J.
 Dominant Northern Hemisphere climate control over millennial-scale glacial sea-level variability

XY0189; EGU2007-A-10172; CL29/CL46-1MO5P-0189
Vinther, B. M.; Johnsen, S. J.; Clausen, H. B.; Rasmussen, S. O.; Svensson, A. M.
 Greenland climate during the Holocene – as seen in five synchronous Greenland $\delta^{18}O$ records.

XY0190; EGU2007-A-11570; CL29/CL46-1MO5P-0190
Beer, J
 Long-term solar Variability derived from cosmogenic Radionuclides (solicited)

XY0191; EGU2007-A-11577; CL29/CL46-1MO5P-0191
Retejum, A
 Atmospheric Circulation in the Northern Hemisphere and solar Activity

CL40 Climate Models Intercomparison: Dynamics and Physical Processes (co-listed in AS , OS & NP)

Convener: Lucarini, V.
 Co-Convener(s): Van Ulden, A., Kimoto, M.
 Lecture Room 25
 Chairperson: N.N.

8:30–8:45; EGU2007-A-10993; CL40-1MO1O-001
Bader, D.; Taylor, K.; Drach, R.; Williams, D.; Aquillino, J.; Hoang, A.
 The IPCC-AR4/CMIP-3 Multi-model database: Lessons for the future (solicited)

8:45–9:00; EGU2007-A-03690; CL40-1MO1O-002
Fraedrich, K
 Analysing variability in climate models: memory, entropy, extremes (solicited)

9:00–9:15; EGU2007-A-06634; CL40-1MO1O-003
Lopez, A.; Cuellar, M.C.; Lizcano, G.
 Towards a consistent dynamics in a GCM perturbed physics ensemble

9:15–9:30; EGU2007-A-02046; CL40-1MO1O-004
Williamson, D.
 Equivalent resolutions of a grid-point and a spectral transform global atmospheric model

9:30–9:45; EGU2007-A-01174; CL40-1MO1O-005
Stone, P.; Forest, C; Sokolov, A
 Constraining climate models from observations

9:45–10:00; EGU2007-A-03532; CL40-1MO1O-006
Volodin, E. M.; Diansky, N. A.
 Cloud distribution in climate models and climate sensitivity

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-08581; CL40-1MO2O-001
Ingram, W
 On possible quantifications of the water vapour feedback

10:45–11:00; EGU2007-A-04011; CL40-1MO2O-002
Calmanti, S.; Canuto, V.; Dell'Aquila, A.; Lucarini, V.; Ruti, P.
 The Work Done by the Wind on the Oceanic General Circulation: IPCC-AR4 Model's Intercomparison

11:00–11:15; EGU2007-A-02166; CL40-1MO2O-003
Gualdi, S.; Bellucci, A.; Navarra, A.
 A multi-model evaluation of systematic errors of the tropical seasonal cycle in IPCC AR4 20th century simulations

11:15–11:30; EGU2007-A-04641; CL40-1MO2O-004
Braconnot, P.; Hourdin, F; Bony, S; Dufresne, J.-L; Grandpeix, J.-Y; Marti, O.
 Impact of different convective cloud schemes on the simulation of the tropical seasonal cycle in a coupled ocean-atmosphere model

11:30–11:45; EGU2007-A-10762; CL40-1MO2O-005
Caballero, R.
 Control of Hadley cell strength by midlatitude eddies in reanalysis and IPCC AR4 models

11:45 END OF SESSION

CL40 Climate Models Intercomparison: Dynamics and Physical Processes (co-listed in AS , OS & NP) – Posters

Convener: Lucarini, V.
 Co-Convener(s): Van Ulden, A., Kimoto, M.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0192; EGU2007-A-00608; CL40-1MO5P-0192
Pisnichenko, I.A.; Tarasova, T.A.
 Consistency between the output of climate version of the ETA regional model and global HadAMP model which output used as a boundary condition for the ETA model in dynamical downscaling experiment.

XY0193; EGU2007-A-00985; CL40-1MO5P-0193
Radu, R.; Deque, M.; Somot, S.
 Impact of spectral nudging on a regional spectral climate model

XY0194; EGU2007-A-06188; CL40-1MO5P-0194
Prömmel, K.; Geyer, B.; Jones, J.M.; Widmann, M.
 Evaluation of the skill and added value of a reanalysis-driven regional simulation for alpine temperature

XY0195; EGU2007-A-07404; CL40-1MO5P-0195
Anders, I.; Rockel, B.
 Analysis of ENSEMBLES multimodel simulations forced by ERA40

XY0196; EGU2007-A-07456; CL40-1MO5P-0196
Anders, I.; Rockel, B.
 Sensitivity of Regional Climate Model CLM in terms of varying parameters for spectral nudging technique

XY0197; EGU2007-A-07528; CL40-1MO5P-0197
Brockhaus, P.; Lüthi, D.; Schär, C.
 Convective precipitation in RCMs: diurnal cycle of precipitation and atmospheric profiles

XY0198; EGU2007-A-01159; CL40-1MO5P-0198
Lucarini, V.; Danihlik, R.; Kriegerova, I.; **Speranza, A.**
 Does the Danube exist? Versions of reality given by various regional climate models and climatological datasets

XY0199; EGU2007-A-01211; CL40-1MO5P-0199
Lucarini, V.; Danihlik, R.; Kriegerova, I.; Speranza, A.
 Hydrological cycle of the Danube basin: Present-day and XXII Century simulations by IPCC models

XY0200; EGU2007-A-09187; CL40-1MO5P-0200
Faggian, P.; Giorgi, F.
 Analysis of future climate change projections for the Italian Region from the IPCC AR4 simulations

XY0201; EGU2007-A-01251; CL40-1MO5P-0201
Perkins, S.E.; Pitman, A.J.
 Ranking climate models at regional scales using probability density functions based on daily data

XY0202; EGU2007-A-06564; CL40-1MO5P-0202
Ganora, D.; Claps, P.; Laio, F.; Porporato, A.
 Evaluation of gcm performances in climate reconstruction: comparison with observed data over Europe and North Africa

XY0203; EGU2007-A-07592; CL40-1MO5P-0203
Ruti, PM; Dell'Aquila, A
 AEWs in IPCC run: XX century case.

XY0204; EGU2007-A-03395; CL40-1MO5P-0204
Wild, M.
 Intercomparison and evaluation of Earth radiation budget in IPCC AR4 GCMs

XY0205; EGU2007-A-11603; CL40-1MO5P-0205
Raschke, E.; Kinne, S.; Gorgietta, M.; Uphoff, M.; Bakan, S.; Okamoto, H.
 Inconsistencies of the incoming solar radiation boundary condition in global modeling

XY0206; EGU2007-A-01299; CL40-1MO5P-0206
Williams, K. D.; Tselioudis, G.
 GCM intercomparison of global cloud regimes

XY0207; EGU2007-A-01301; CL40-1MO5P-0207
Williams, K. D.
 Evaluation of a component of the cloud response to climate change in an intercomparison of climate models

XY0208; EGU2007-A-07479; CL40-1MO5P-0208
Karlsson, J.; Svensson, G.; Rodhe, H.
 Is there a too strong model cloud feedback in GCMs?

XY0209; EGU2007-A-01198; CL40-1MO5P-0209
Gastineau, G.; Le Treut, H.; Li, L.
 A study on the Hadley circulation changes under global warming

XY0210; EGU2007-A-10488; CL40-1MO5P-0210
Montecinos, A.; Fuenzalida, H.
 Assessment of the main SST-SLP coupled mode at inter-annual and interdecadal timescales in the South Pacific as simulated in the IPCC's XX Century

XY0211; EGU2007-A-04049; CL40-1MO5P-0211
Breugem, W.-P.; Chang, P.; Jang, C.J.; Mignot, J.
 Barrier layers and tropical Atlantic SST biases in coupled GCM's

XY0212; EGU2007-A-04470; CL40-1MO5P-0212
Tredger, E.; Smith, L.A.; Stainforth, D.
 Investigating variations in heat flux adjustment in the climateprediction.net ensemble

XY0213; EGU2007-A-08447; CL40-1MO5P-0213
Hawellek, D.; Smith, L.A.
 Tracing the History of Estimated Climate Sensitivity

Cryospheric Sciences

CR10 Open session on cryospheric sciences (including Louis Agassiz Medal Lecture)

Convener: Gudmundsson, G.
 Co-Convener(s): Bindschadler, R.
 Lecture Room 13 (F1)
 Chairperson: GUDMUNDSSON, G. H.

17:30–17:45; EGU2007-A-02059; CR10-1MO5O-001
Watts, R.
 The origin of the 100ky cycle in the pleistocene

17:45–18:00; EGU2007-A-00706; CR10-1MO5O-002
Werder, M.; Bauder, A.; Huss, M.; Loye, A.; Sugiyama, S.; Walter, F.; Weiss, Walte; Funk, M.
 Gorner jäkulhlaups: Results of the 2004, 2005 & 2006 field campaigns

18:00–18:15; EGU2007-A-00830; CR10-1MO5O-003
Huss, M.; Bauder, A.; Funk, M.
 Time-series of seasonal mass balance of four Alpine glaciers for 1865-2005

18:15–18:30; EGU2007-A-04626; CR10-1MO5O-004
Van de Wal, RSW; Boot, W; Van den Broeke, MR;
 Smeets, P; Reijmer, CH; Oerlemans, J
 Rapid Fluctuations of surface velocity along the Western margin of the Greenland ice sheet deduced by GPS measurements.

18:30–18:45; EGU2007-A-10892; CR10-1MO5O-005
Young, N.W.; Gibson, J.A.E
 A century of change in the Shackleton and West Ice Shelves, East Antarctica

18:45–19:00; EGU2007-A-02766; CR10-1MO5O-006
Hindmarsh, R.C.A; King, E.C.; Corr, H.F.J; Martin, C.
 Recent Thinning of the Fletcher Promontory Ice Rise Indicated by oversized Raymond bumps

19:00 END OF ORAL SESSIONS

Chairperson: BINDSCHADLER, R. A.

19:00–19:15; EGU2007-A-10760; CR10-1MO6O-001
de Jong, C.
 Cryosphere – a CRY for our SPHERE ?

19:15–20:00; EGU2007-A-03188; CR10-1MO6O-002
Raymond, C. F.
 Spreading fast motion and the pace of change in ice sheets (Louis Agassiz Medal Lecture) (solicited)

20:00 END OF SESSION

CR10 Open session on cryospheric sciences (including Louis Agassiz Medal Lecture) – Posters

Convener: Gudmundsson, G.
 Co-Convener(s): Bindschadler, R.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 15:30–17:00
 Poster Area Hall A
 Chairperson: GUDMUNDSSON, G. H.

A0001; EGU2007-A-00168; CR10-1MO4P-0001
Ballagh, L
 A first look at comparing ice thickness from ice charts and submarine data in a GIS

A0002; EGU2007-A-00907; CR10-1MO4P-0002
Samyn, D.; Durand, G.
 Introducing the concept of low-angle grain boundaries in ice core crystallographic studies: towards a more precise material characterization

A0003; EGU2007-A-01426; CR10-1MO4P-0003
Eisen, O.; Hamann, I.; Kipfstuhl, S.; Steinhage, D.; Wilhelm, F.
 Single radar reflector from fabric change at EPCIA DML drill site

A0004; EGU2007-A-06091; CR10-1MO4P-0004
Pinzer, B.; Kerbrat, M.; Huthwelker, T.; Ammann, M.; Schneebeli, M.
 Is the surface of ice smooth in snow?

A0005; EGU2007-A-01864; CR10-1MO4P-0005
Shepherd, A; Muir, A; Marshall, G; Wingham, D; Baker, S; Benham, T; Strozzi, T
 Satellite observations of ice cap mass trends

A0006; EGU2007-A-03927; CR10-1MO4P-0006
Huss, M.; Sugiyama, S.; Bauder, A.; Funk, M.
 Modeling the retreat of Unteraargletscher until 2050

A0007; EGU2007-A-06576; CR10-1MO4P-0007

Olefs, M.; Fischer, A.; Lang, J.

The role of artificial increase of accumulation within glacier skiing resorts. A feasibility study.

A0008; EGU2007-A-06614; CR10-1MO4P-0008

Gudmundsson, GH; Jenkins, A

Decadal invariability in the flow of Rutford Ice Stream, West Antarctica

A0009; EGU2007-A-06923; CR10-1MO4P-0009

YAO, T

Environmental change on the Tibetan Plateau

A0010; EGU2007-A-06955; CR10-1MO4P-0010

Macchiavello, G.; Boni, G.; Moser, G.; Serpico, S.B.

Unsupervised identification of snow covered areas by decision tree classifier

A0011; EGU2007-A-07135; CR10-1MO4P-0011

Young, N.

A circum-Antarctic survey of icebergs - abundance and size characteristics

A0012; EGU2007-A-07334; CR10-1MO4P-0012

Khan, V.; Rubinstein, K.; Zoloeva, M.

Assessments of snow cover characteristics reproduced in snow classification experiments with GCM of Hydromet-centre of Russia

A0013; EGU2007-A-09450; CR10-1MO4P-0013

Mihalcea, C.; Mayer, C.; Diolaiuti, G.; D'Agata, C.; Smiraglia, C.; Citterio, M.

Recent dynamics of Lys Glacier (Monte Rosa Massif, Italian Alps) derived from remote sensing information and field measurements

A0014; EGU2007-A-09788; CR10-1MO4P-0014

Molnia, B

Disarticulation of Temperate Glaciers – The Dynamics of Passive Calving

A0015; EGU2007-A-09865; CR10-1MO4P-0015

Tedesco, M.; Kim, E.J.

Temporal trend of microwave brightness temperatures spatial heterogeneity at DOME C, Antarctica

CR20 Open session on permafrost (co-listed in CL, GM & NH) – Posters

Convener: Gruber, S.

Co-Convener(s): Hauck, C.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 13:30–15:00

Poster Area Hall A

Chairperson: N.N.

A0016; EGU2007-A-00243; CR20-1MO3P-0016

Abramov, A.; Gilichinsky, D.; Motenko, R.; Tikhonova, E.

Mountain permafrost in areas of modern volcanic activity: Kluchevskaya volcano group (Kamchatka)

A0017; EGU2007-A-09205; CR20-1MO3P-0017

Kellerer-Pirklbauer, A.

A global Perspective on active Volcanoes and Permafrost

A0018; EGU2007-A-07657; CR20-1MO3P-0018

Glover, PWJ; Blouin, M

Modelling increased soil radon emanation caused by instantaneous and gradual permafrost thawing due to global climate warming

A0019; EGU2007-A-06687; CR20-1MO3P-0019

VEDIE, E.; Lagarde, J.L.; Font, M; Callaud, D

Permafrost and global warming : data from physical modelling in cold rooms

A0020; EGU2007-A-01812; CR20-1MO3P-0020

Blanco, J.J.; Ramos, M; Vieira, G; Gruber, S; Hauck, C; Tomé, D; Hidalgo, M.A

Active layer temperature regimes in Livingston Island (Maritime Antarctic)

A0021; EGU2007-A-01816; CR20-1MO3P-0021

Ramos, M.; PermaModel

Permafrost and active layer monitoring in the Maritime Antarctic. First results from CALM sites in Livingston and Deception islands

A0022; EGU2007-A-01830; CR20-1MO3P-0022

Han, U.; Lee, C.K.; Jeong, S.; Lee, B.Y.

Thermal properties of the active layer soil of Antarctica

A0023; EGU2007-A-03520; CR20-1MO3P-0023

Oliphant, A.J.; Hindmarsh, R.C.A; Lawson, W.J.

Energy and moisture fluxes over and within frozen debris in polar conditions: evidence from the Taylor Valley, Antarctica

A0024; EGU2007-A-04164; CR20-1MO3P-0024

Hausmann, H.; Krainer, K.; Brückl, E.; Mostler, W.; Ullrich, C.

Internal structure, ice content, and dynamic behaviour of three Eastern Alpine rock glaciers

A0025; EGU2007-A-09690; CR20-1MO3P-0025

Frauenfelder, R.

Age and debris transport capacity of creeping mountain permafrost features - a quantitative study from the Swiss Alps

A0026; EGU2007-A-10671; CR20-1MO3P-0026

Morard, S.; Delaloye, R.; Dorthe, J.; Lambiel, C.

Inventory of ventilated cold scree slopes and rock glaciers in the Swiss Alps and Prealps

A0027; EGU2007-A-10907; CR20-1MO3P-0027

Delaloye, R.; Lambiel, C.

Drilling in a low elevation cold talus slope (Dreveneuse, Swiss Prealps)

A0028; EGU2007-A-10478; CR20-1MO3P-0028

Hasler, A.; Gruber, S.

Quantifying the non-conductive Heat Transport in the Surface Layer of high alpine Rock Faces

A0029; EGU2007-A-07558; CR20-1MO3P-0029

Cremonese, E.; Morra di Cella, U.; Pogliotti, P.; Giardino, M.; Gruber, S.

Rockwall thermal regime characterization in high mountain areas and related permafrost degradation: preliminary data from the Western Alps

A0030; EGU2007-A-10867; CR20-1MO3P-0030

Ebohon, B.; Formayer, H.; **Schrott, L.**

Modelling mountain permafrost distribution - towards a permafrost map of Austria

A0031; EGU2007-A-09030; CR20-1MO3P-0031

Klenk, P.; Wollschläger, U; Boike, J; Roth, K

Longterm monitoring of thermal and hydraulic dynamics of a permafrost site near Ny-Ålesund, Svalbard

A0032; EGU2007-A-07852; CR20-1MO3P-0032

Boereboom, T.; Samyn, D.; Meyer, H.; Tison, J-L.

Preliminary results on ice characteristics from two Ice-wedges at Cape Mamontovy Klyk, Laptev Sea, Northern Siberia

A0033; EGU2007-A-04785; CR20-1MO3P-0033

Matsuoka, N.; Christiansen, H.H.

High resolution monitoring of ice-wedge cracking by multiple techniques

CR40 Climate change impacts on glaciers, permafrost and related hazards (co-listed in NH & CL)

Convener: Kääb, A.
Co-Convener(s): Raup, B., Delgado, H., Huggel, C., Schneider, C.
Lecture Room 6 (K)
Chairperson: N.N.

8:30–8:45; EGU2007-A-00304; CR40-1MO1O-001

Kutuzov, S.

The recent climate change and glaciers retreat in the Tien Shan mountains, Central Asia

8:45–9:00; EGU2007-A-10350; CR40-1MO1O-002

Geissler, P.E.; Lee, E.; Molnia, B.

Orbital Monitoring of Afghanistan's Glaciers

9:00–9:15; EGU2007-A-09756; CR40-1MO1O-003

Frauenfelder, R.; Kääb, A.; Hoelzle, M.

Analysis of glacier distribution, glacier changes and permafrost occurrence in the Brahmaputra river basin for water resources management

9:15–9:30; EGU2007-A-06861; CR40-1MO1O-004

Muskett, R.R.; Lingle, C.S.; Sauber, J.M.; Echelmeyer, K.A.; Post, A.S.; Rabus, B.T.; Tangborn, W.V.
Accelerating Wastage of the Malaspina Glacier System in Alaska, U.S.A., 1972 to 2006, from Airborne and Spaceborne InSAR DEMs and Small-Aircraft and ICESat Laser Altimetry

9:30–9:45; EGU2007-A-03602; CR40-1MO1O-005

James, T.D.; The SLICES Team

Sea-level rise contribution from changes in glacier geometry and extent in Svalbard using digital photogrammetry

9:45–10:00; EGU2007-A-03294; CR40-1MO1O-006

Berthier, E.; Vincent, C.

Thinning of the Mer de Glace (Alps) during the last 25 years: relative contribution of changes in surface ablation and glacier dynamics

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-05959; CR40-1MO2O-001

Zhang, J.; Bhatt, U.S.; Tangborn, W.V.; Lingle, C.S.

Estimation of future glacier mass balances with an atmosphere/glacier hierarchical modeling system

10:45–11:00; EGU2007-A-02028; CR40-1MO2O-002

de Woul, M.; Hock, R.; Radic, V.

Global glacier mass losses and mass balance sensitivities assessed from observations and gridded climate data

11:00–11:15; EGU2007-A-05379; CR40-1MO2O-003

Paul, F.; Andreassen, L.M.

A new glacier inventory for the Svartisen area (Norway) from Landsat ETM+: Methodological challenges and first results

11:15–11:30; EGU2007-A-10730; CR40-1MO2O-004

Paasche, Ø.; Løvlie, R.; Bakke, J.

The sedimentary response of a rockglacier to changing climate conditions

11:30–11:45; EGU2007-A-07130; CR40-1MO2O-005

Rabatel, A.; Ravanel, L.; Deline, P.; Jailliet, S.

Recent rock falls and rock avalanches in high-alpine rock walls affected by permafrost. A case study in the Mont Blanc massif (2005–2006).

11:45–12:00; EGU2007-A-08160; CR40-1MO2O-006

Fischer, L.; Huggel, C.; Lemy, F.

Investigation and modelling of periglacial rock fall events in the European Alps

12:00 END OF SESSION

CR40 Climate change impacts on glaciers, permafrost and related hazards (co-listed in NH & CL) – Posters

Convener: Kääb, A.

Co-Convener(s): Raup, B., Delgado, H., Huggel, C., Schneider, C.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 13:30–15:00

Poster Area Hall A

Chairperson: N.N.

A0034; EGU2007-A-05320; CR40-1MO3P-0034

Ananicheva, M.D.

Contemporary and future change of Kamchatka glacier systems

A0035; EGU2007-A-09468; CR40-1MO3P-0035

Molnia, B.; Geissler, P.; Lee, E.

Monitoring the Behavior of Selected Afghanistan Glaciers with ASTER Imagery

A0036; EGU2007-A-08178; CR40-1MO3P-0036

Narama, C.; Kääb, A.; Kajiura, T.; Abdrakhmatov, K.

Spatial variability of recent glacier area and volume changes in central Asia using Corona, Landsat, ASTER and ALOS optical satellite data

A0037; EGU2007-A-00877; CR40-1MO3P-0037

Dolgova, E.; Solomina, O.; Bok, A.; Salpagarov, D.

Glacier retreat and climate change in Teberda valley, West Caucasus, Russian Federation

A0038; EGU2007-A-09283; CR40-1MO3P-0038

Kääb, A.

Recent glacier volume changes in Eastern Svalbard using ASTER optical stereo

A0039; EGU2007-A-09372; CR40-1MO3P-0039

Gjermundsen, E.F.; Mathieu, R.; Kääb, A.; Hagen, J.O.; Chinn, T.; Fitzharris, B.

Glacier area changes 1978 - 2002 in the central Southern Alps, New Zealand, from ASTER satellite data, field survey and existing inventory data

A0040; EGU2007-A-08395; CR40-1MO3P-0040

Haeberli, W.; Rothenbühler, C.; Frey, H.; Paul, F.; Huggel, C.; Zemp, M.

Modelling and detection of present and future glacial lakes in the Swiss Alps based on digital terrain information and remote sensing.

A0041; EGU2007-A-08014; CR40-1MO3P-0041

Salamon, M.; Székely, B.; Timár, G.; Molnár, G.; Biszak, S.
A GIS-assisted reconstruction and 3D data integration of Eastern Alpine glaciers using satellite imagery and georeferenced historical and archive maps

A0042; EGU2007-A-02990; CR40-1MO3P-0042

Vincent, C.; Six, D.; Le Meur, E.

Climate change impact on glacier mass balance over the 20th Century in the Alps

A0043; EGU2007-A-04893; CR40-1MO3P-0043

Nussbaumer, S. U.; Zumbühl, H. J.

Glacier length records for the Alps and Scandinavia over the last centuries: first results

A0044; EGU2007-A-01416; CR40-1MO3P-0044

Rasmussen, L. A.

Spatial extent of influence on glacier mass balance of North Atlantic circulation indices

A0045; EGU2007-A-00832; CR40-1MO3P-0045

Delcourt, C.; Pattyn, F.

Modelling historical and recent mass loss of a polythermal Arctic glacier (McCall Glacier, Alaska)

A0046; EGU2007-A-03737; CR40-1MO3P-0046

Rippin, D.; Willis, I.; Kohler, J.

Changes in the Thermal Regime of the Polythermal Midre Lovénbreen, Svalbard

A0047; EGU2007-A-08237; CR40-1MO3P-0047

Sueyoshi, T.

10-year monitoring of the temperature and the deformation of permafrost in the eastern ridge of Mt. Jungfrau.

A0048; EGU2007-A-04596; CR40-1MO3P-0048

Hilbich, C.; Hauck, C.; Hoelzle, M.; Delaloye, R.; Vonder Mühl, D.; Mäusbacher, R.

A geophysical monitoring network to quantify permafrost degradation in the Swiss Alps

A0049; EGU2007-A-08239; CR40-1MO3P-0049

Lecomte, I.; Thollet, I.; Breien, H.; Elverhøy, A.; Høeg, K.; Juliussen, H.; Hamran, S.-E.; Bagge-Lund, M.; Souche, A.; Sand, M.

Using geophysics on a terminal moraine damming a glacial lake: the Flatbre debris flow case, Western Norway.

A0050; EGU2007-A-04048; CR40-1MO3P-0050

Häusler, H.; Payer, T.; Leber, D.; Brauner, M.; Wangda, D.; Rank, D.; Papesch, W.

Hazard potential of seepages causing moraine dam break in the Bhutan Himalayas

A0051; EGU2007-A-04374; CR40-1MO3P-0051

Flubacher, M.; **Huggel, C.;** Käab, A.; Zemp, M.

Web-based database on worldwide glacier and permafrost disasters

A0052; EGU2007-A-04092; CR40-1MO3P-0052

Riccardi, A.G.; Scotti, R.; Sgrenzaroli, M.; Vassena, G.; Smiraglia, C.

The recent evolution of Mount S. Matteo unstable ice mass (Forni Glacier, Ortles-Cevedale Group, Italy) as a contribution to the knowledge of avalanching glacier dynamics

A0053; EGU2007-A-07607; CR40-1MO3P-0053

Chiarle, M.; Arattano, M.; **Deline, P.;** Giulietto, W.; Herry, G.; Mortara, G.; Pau, R.; Ravello, M.; Vagliasindi, M.; Voyat, I.

Recording and analysing high mountain rockfall events in relation to cryosphere changes

A0054; EGU2007-A-09121; CR40-1MO3P-0054

Gruber, S.; Handschin, T.; Noetzli, J.

Can we use the Timing of 2003 Rockfall from Alpine Permafrost Areas to learn about their Release Mechanisms?

A0055; EGU2007-A-09109; CR40-1MO3P-0055

Lieb, G.K.; **Kellerer-Pirklbauer, A.;** Avian, M.

ALPCHANGE - An innovative project on Climate Change and Impacts in southern Austrian Alpine Regions

Geochemistry, Mineralogy, Petrology & Volcanology

GMPV3 Phase changes, magma properties, and magmatic and eruptive processes – Posters

Convener: De Campos, C.

Co-Convener(s): Longo, A.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 13:30–15:00

Poster Area Hall A

Chairperson: N.N.

A0056; EGU2007-A-07542; GMPV3-1MO3P-0056

Poussineau, S.; Arbaret, L.; Burgisser, A.

Water content of 1997 vulcanian pumices at Soufriere Hills Volcano (Montserrat) and implications on pre-eruptive conduit conditions

A0057; EGU2007-A-04115; GMPV3-1MO3P-0057

Cordonnier, B.; Hess, K-U; Lavallée, Y.; Dingwell, D-B

Non-Newtonian rheology of back-arc volcano: application to magma ascent at Unzen

A0058; EGU2007-A-06682; GMPV3-1MO3P-0058

Richard, D.; Scheu, B.; Mueller, S.; Spieler, O.; Dingwell, D.B.

Fragmentation of Magma: Controls from Porosity, Permeability and Textures

A0059; EGU2007-A-07459; GMPV3-1MO3P-0059

Kremers, S.; Spieler, O.; Richard, D.; Dingwell, D. B.

Influence of shear friction on fragmentation processes

A0060; EGU2007-A-07975; GMPV3-1MO3P-0060

Spieler, O.; Kremers, S.; Dingwell, D.B.

Deposits & experiments understanding eruption dynamics

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 15:30–17:00

Poster Area Hall A

Chairperson: N.N.

A0061; EGU2007-A-08831; GMPV3-1MO4P-0061

Fontijn, K.; Masschaele, B.; **Jacobs, P.;** Van Hoorebeke, L.; Ernst, G.

New insights into magma fragmentation during silicic explosive eruptions from X-ray microtomography: the case of the Minoan eruption, Santorini, Greece

A0062; EGU2007-A-10259; GMPV3-1MO4P-0062

Kueppers, U.; Alatorre-Ibarguengoitia, M.A.; Perugini, D.; Spieler, O.; Dingwell, D.B.

The Influence of Physical Parameters on the Fragmentation Efficiency

A0063; EGU2007-A-00917; GMPV3-1MO4P-0063

Scolamacchia, T.; de La Cruz R., S.; Schouwenaars, R.

Impact micro-craters in a steel tube located in the area devastated by the 1982 eruption of El Chichón volcano: a clue for a better understanding its past events

A0064; EGU2007-A-07195; GMPV3-1MO4P-0064

Ardia, P.; Giordano, D.; Schmidt, M.W.

Falling sphere viscosity of hydrous rhyolitic melt considering H₂O-T-P-variations (solicited)

A0065; EGU2007-A-05469; GMPV3-1MO4P-0065

Teixidó, F.; De Campos, C.; Dingwell, D.B.; Martí, J.

Diffusion in multicomponent silicate systems: preliminary results from experiments with natural samples

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 17:30–19:00

Poster Area Hall A
Chairperson: N.N.

A0066; EGU2007-A-02262; GMPV3-1MO5P-0066
Persikov, E.S.

Structural chemical model to calculate and predict the viscosity of magmatic melts in full range of composition and conditions

A0067; EGU2007-A-04876; GMPV3-1MO5P-0067

De Campos, C. P.; Perugini, D.; Petrelli, M.; Civetta, L.; Dingwell, D. B.; Fehr, T. K.

DDC-driven fractionation from mixing and layered convection experiments in phono-trachytic magmas: REE- and trace elements distribution

A0068; EGU2007-A-06736; GMPV3-1MO5P-0068

Galerne, C.; Neumann, E.R.; Planke, S.; Aarnes, I.; Haaberg, K.

Geochemical Architecture of the Golden Valley Sill Complex, South Africa: Implication for Saucer-Shaped Sill Emplacement in Sedimentary Basins

A0069; EGU2007-A-07637; GMPV3-1MO5P-0069

Tchalikian, A.; Nebel, O.; Davies, G.R.; Elburg, M.A.; Wijbrans, J.R.; Andriessen, P.A.M

New insights into timescales of peralkalic magma chamber processes in the Naivasha area, Kenya Dome

A0070; EGU2007-A-03303; GMPV3-1MO5P-0070

Castorina, F.; **Masi, U.;** Palomba, M.

Nd and Sr isotope geochemistry of plutonic rocks from Ottana (central Sardinia): implications for granite petrogenesis and crustal evolution

A0071; EGU2007-A-00833; GMPV3-1MO5P-0071

Delibas, O.; Genc, Y.; De Campos, C. P.

Cu-Mo and Fe Enrichments in the Karacaali Magmatic Complex, Central Anatolia, Turkey: Evidence for metal partitioning during magma mixing/mingling processes

A0072; EGU2007-A-00674; GMPV3-1MO5P-0072

Kozlu Erdal, H.; Melcher, F.

Mineralogy and Geochemistry of Platinum-Group Element Enrichments in Berit (Maras) Chromitites, Southeastern Turkey

A0073; EGU2007-A-00504; GMPV3-1MO5P-0073

Emami, M.H.; Asadi, N.; Imanipour, M.

Petrographical, geochemical and mineralization evidences for Eocene hybrid volcanic rocks of south Lushan area (Alborz Zone, Iran)

GMPV6 Volcano-Tectonics (Co-listed in TS)

Convener: Gudmundsson, A.

Co-Convener(s): Acocella, V., Vinciguerra, S.

Lecture Room 21 (O)

Chairperson: GUDMUNDSSON, A.

13:30–13:45; EGU2007-A-10580; GMPV6-1MO3O-001

Jonsson, S.; Chadwick, W.; Geist, D.; Poland, M.

Interactions between repeated Trapdoor Faulting and 5 m of Uplift prior to the 2005 Eruption at Sierra Negra Volcano, Galapagos

13:45–14:00; EGU2007-A-00469; GMPV6-1MO3O-002

Manconi, A.; Walter, T.R.; Amelung, F.

Deformation due to an inflation source in a layered half-space: Application to Darwin volcano, Galapagos

14:00–14:15; EGU2007-A-05460; GMPV6-1MO3O-003

Tentler, T.; Soriano, C.

Architecture of Las Cañadas stratovolcano in Tenerife inferred from the study of its intrusive complex

14:15–14:30; EGU2007-A-04704; GMPV6-1MO3O-004

Aguirre-Diaz, G.J.; Labarthe-Hernandez, G.; Tristan-Gonzalez, M.; Nieto-Obregon, J.; Gutierrez-Palomares, I. Graben-calderas. Volcano-tectonic explosive collapse structures of the Sierra Madre Occidental, Mexico (solicited)

14:30–14:45; EGU2007-A-01872; GMPV6-1MO3O-005

Geshi, N

Development of a collapse caldera during the Miyakejima 2000AD eruption (solicited)

14:45–15:00; EGU2007-A-01713; GMPV6-1MO3O-006

Acocella, V

Caldera types: how end-members relate to evolutionary stages of collapse

15:00 COFFEE BREAK

Chairperson: ACOCELLA, V.

15:30–15:45; EGU2007-A-03456; GMPV6-1MO4O-001

Bonforte, A.; Gambino, S.; Neri, M.

Shallow and deeper deformation on the eastern flank of Etna from 2001 to 2006 (solicited)

15:45–16:00; EGU2007-A-03305; GMPV6-1MO4O-002

Barberi, G.; Currenti, G.; Del Negro, C.; **Ganci, G.;** Patané, D.

Stress interaction between magmatic intrusions and tectonic processes during the 2001-2003 eruptive period at Etna volcano (Italy)

16:00–16:15; EGU2007-A-08130; GMPV6-1MO4O-003

Villemin, Th.

Fissure swarm and central volcano at the divergent plate boundary in northern Iceland: the Krafla fissure swarm as a case example

16:15–16:30; EGU2007-A-10233; GMPV6-1MO4O-004

Fontijn, K.; **Delvaux, D.;** Temu, E.B.; Jacobs, P.; Ernst, G. Volcanotectonic architecture of the Rungwe Volcanic Province (East African rift, SW Tanzania)

16:30–16:45; EGU2007-A-06060; GMPV6-1MO4O-005

Kozhurin, A.

Kamchatka island arc: two modes of extension in the overriding plate

16:45–17:00; EGU2007-A-00867; GMPV6-1MO4O-006

Irannezhadi, M. R.; Ghorbani, M. R.; Vosoughi Abedini, M.; Pourmoafi, M.

Tertiary arc-related volcanism in Central Alborz Mountains

17:00 COFFEE BREAK

Chairperson: VINCIGUERRA, S.

17:30–17:45; EGU2007-A-07405; GMPV6-1MO5O-001

Gudmundsson, A.; Galindo, I.; Friese, N.; Andrew, R

Reverse slip on a graben fault induced by a feeder dyke

17:45–18:00; EGU2007-A-00539; GMPV6-1MO5O-002

Lungarini, L.; Manconi, A.; Walter, T.R.; Troise, C.; De Natale, G.

The influence of topography and volcano tectonic structures on the ground deformation field at Vesuvius volcano

18:00–18:15; EGU2007-A-05184; GMPV6-1MO5O-003

Bell, A.; Kilburn, C

Controls on dyke injection at basaltic volcanoes from patterns of volcano-tectonic seismicity

18:15–18:30; EGU2007-A-06317; GMPV6-1MO5O-004
Hall, S.; **Viggiani, G.**

Analysis of fracture in a soft rock (Neapolitan tuff) using digital image correlation with displacement discontinuity quantification (solicited)

18:30–18:45; EGU2007-A-04479; GMPV6-1MO5O-005
Smith, R.; Tuffen, H.; Sammonds, P.R.

The high temperature fracture mechanics of silicic magma: a comparison of crystalline andesite and rhyolitic obsidian (solicited)

18:45–19:00; EGU2007-A-06750; GMPV6-1MO5O-006
Heap, M.; Lewis, O.; Meredith, P.; Vinciguerra, S
Elastic and mechanical properties of Etna basalt

19:00 END OF SESSION

GMPV6 Volcano-Tectonics (Co-listed in TS) – Posters

Convener: Gudmundsson, A.
Co-Convener(s): Acocella, V., Vinciguerra, S.
Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 08:30–10:00

Poster Area Hall A
Chairperson: N.N.

A0074; EGU2007-A-00090; GMPV6-1MO1P-0074

Burchardt, S.; Gudmundsson, A.
The mechanics of sill emplacement in central volcanoes

A0075; EGU2007-A-00786; GMPV6-1MO1P-0075

Friese, N.; Andrew, R.B.; Gudmundsson, A.
Mechanical interaction between volcanic systems on the Reykjanes Peninsula, Southwest Iceland

A0076; EGU2007-A-00838; GMPV6-1MO1P-0076

Andrew, R.; Gudmundsson, A.
Mechanical interaction between central volcanoes in Iceland

A0077; EGU2007-A-09233; GMPV6-1MO1P-0077

Galland, O.; Polteau, S.; Planke, S.; Mazzini, A.; Malthe-Sørensen, A.; Svensen, H.; Neumann, E.-R.; Gundersen, O.
Mechanisms of saucer-shaped sill emplacement and associated doming: insights from experimental modelling

A0078; EGU2007-A-00779; GMPV6-1MO1P-0078

Dokukina, K.A.; Vladimirov, V.G.; Konilov, A.N.
Tectonic fragmentation of mafic melt in Tassau volcano-plutonic ring complex, Eastern Kazakhstan (solicited)

A0079; EGU2007-A-01518; GMPV6-1MO1P-0079

Karsli, O.; Chen, B.; **Uysal, I.**; Aydin, F.; Wijbrans, J.
Crust-mantle interaction and petrogenesis of the Quaternary volcanism in the Eastern Turkey, Erzincan: Sr-Nd-Pb isotopic, geochemical and geochronological evidences

A0080; EGU2007-A-00235; GMPV6-1MO1P-0080

Ruch, J.; Anderssohn, J.; Walter, T.R.; Motagh, M.
Wide deformation in the Azufre volcanic area, South America: A developing Giant?

A0081; EGU2007-A-05420; GMPV6-1MO1P-0081

Russo, G.; Capuano, P.; Giberti, G.
3D gravity inversion and deformation field at Campi Flegrei (Italy)

A0082; EGU2007-A-01537; GMPV6-1MO1P-0082

Got, J.-L.; Monteux, J.; Monteiller, V.; Hassani, R.; Okubo, P.
Better understanding of Hawaiian volcanoes through double-difference tomography and mechanical modelling

A0083; EGU2007-A-03478; GMPV6-1MO1P-0083

Le Corvec, N.; Walter, T.R.; Ruch, J.
Internal flank deformation on large volcanic islands: comparison between gravitational spreading and rift zone intrusion through analogue modelling.

A0084; EGU2007-A-01990; GMPV6-1MO1P-0084

Walter, T. R.
Volcanic Activity Influenced By Tectonic Earthquakes: Static And Dynamic Stress Triggering At Mt. Merapi

A0085; EGU2007-A-04331; GMPV6-1MO1P-0085

Buchwitz, M.; Helbig, M.; Gloaguen, R.; Abebe, B.
Normal faulting in oblique-spreading rift systems quantified by means of DEM analysis

A0086; EGU2007-A-06185; GMPV6-1MO1P-0086

Gloaguen, R.; Abebe, B.
Tectono-magmatic evolution of the Main Ethiopian Rift

A0087; EGU2007-A-02774; GMPV6-1MO1P-0087

Acocella, V.; Neri, M.; Scarlato, P.
Shallow orthogonal dike emplacement at Stromboli (Italy): the case of the 2002-2003 eruption

A0088; EGU2007-A-08907; GMPV6-1MO1P-0088

Bonaccorso, A.; **Bonforte, A.**; Guglielmino, F.; Palano, M.; Puglisi, G.
Ground deformation pattern at Mt. Etna: 2004 and 2006 eruptions imaged by GPS and DInSAR data modelling

A0089; EGU2007-A-02537; GMPV6-1MO1P-0089

Neri, M.; Behncke, B.; Allard, P.; D'Amico, S.; Gambino, S.
How Mount Etna works: cause-effect relationships between magma accumulation, flank instability, and eruptions

A0090; EGU2007-A-02206; GMPV6-1MO1P-0090

Neri, M.; Acocella, V.
Structural evolution of the South-East Crater at Mt. Etna (Italy) during the 2004-2006 period

A0091; EGU2007-A-01652; GMPV6-1MO1P-0091

Benson, P.M.; Thompson, B.D.; Meredith, P.G.; Vinciguerra, S.; Young, R.P.
Imaging Slow Failure in Triaxially Deformed Etna Basalt using 3D Acoustic-Emission Location and X-ray Computed Tomography

A0092; EGU2007-A-06964; GMPV6-1MO1P-0092

Vinciguerra, S.; Stanchits, S.; Trovato, C.; Dresen, G.
Crack damage evolution approaching failure in Etna basalt

A0093; EGU2007-A-07574; GMPV6-1MO1P-0093

Vinciguerra, S.; Benson, P.G.; Del Gaudio, P.; Heap, M.; Mariucci, M.T.; Marra, F.; Meredith, P.G.; Montone, P.; Pierdominici, S.; Scarlato, P.
Physical properties of tuffs from a scientific borehole at Albani Hills volcanic district (central Italy)

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 10:30–12:00

GMPV Poster Area
Chairperson: N.N.

GMPV19 Subduction vs intraplate lithospheric mantle: agents and processes

Convener: Coltorti, M.
Co-Convener(s): Gregoire, M., Scambelluri, M.
Lecture Room 21 (O)
Chairperson: COLTORTI, M.

8:30–8:45; EGU2007-A-06100; GMPV19-1MO1O-001
Ulmer, P.; Kessel, R.; Melekhova, E.; Schmidt, M.W.
 Compositions and Nature of Melts, supercritical Fluids and Liquids liberated by Dehydration of subducted oceanic Lithosphere: Experimental Constraints and Consequences for Subduction Zone Metasomatism (solicited)

8:45–9:00; EGU2007-A-09513; GMPV19-1MO1O-002
Marschall, H. R.; Schumacher, J. C.; King, R. L.
 Geochemical implications of melange zones at the slab-mantle interface (solicited)

9:00–9:15; EGU2007-A-00383; GMPV19-1MO1O-003
Malaspina, N.; Hermann, J.; Scambelluri, M.
 The “W-type” LILE signature of deep subduction zone fluids

9:15–9:30; EGU2007-A-01837; GMPV19-1MO1O-004
Arai, S.; Tamura, A.; Ishimaru, S.; Ninomiya, C.; Abe, N.
 Interaction between mantle-wedge lithosphere and plume-derived melt beneath the Japan arcs on the Japan-Sea opening (solicited)

9:30–9:45; EGU2007-A-02508; GMPV19-1MO1O-005
Bouilhol, P.; Burg, J.-P.; Schmidt, M.W.; Bodinier, J.-L.; Hussain, S.; Dawood, H.
 Melt and fluid migration through fore-arc mantle in Sapat (Kohistan-Pakistan)

9:45–10:00; EGU2007-A-07952; GMPV19-1MO1O-006
Ntafos, Th.; Seghedi, I.
 The geochemical behavior of Phosphorus and Zirconium in lamproitic magmas: case study the Gataia lamproite, SW Romania

10:00 COFFEE BREAK

Chairperson: GREGOIRE, M.

10:30–10:45; EGU2007-A-01053; GMPV19-1MO2O-001
Upton, B.J.G.
 Evidence for metasomatism of lower crustal xenoliths from beneath Scotland. (solicited)

10:45–11:00; EGU2007-A-02993; GMPV19-1MO2O-002
Bonadiman, C.; Coltorti, M.; Duggen, S.; Paludetti, L.; Siena, F.; Thirlwall, M.; Upton, B.G.J.
 Pre-Mesozoic intraplate and subduction-related metasomatism in the Scottish lithospheric mantle

11:00–11:15; EGU2007-A-02773; GMPV19-1MO2O-003
Neumann, E.-R.; Simon, N.S.C.; Bonadiman, C.; Coltorti, M.; Delpech, G.; Grégoire, M.
 Oceanic lithosphere composition revisited: constraints from major element and modal relationships in mantle xenoliths from ocean islands (solicited)

11:15–11:30; EGU2007-A-01243; GMPV19-1MO2O-004
Klein-BenDavid, O.; Logvinova, A.; Sobolev, N.V.; Schrauder, M.; Spetius, Z.; Navon, O.
 Yakutian Diamond-forming fluids - the evolution of carbonatitic high density fluids

11:30–11:45; EGU2007-A-03839; GMPV19-1MO2O-005
Kaaser, B.; Kalt, A.; Ludwig, T.; Pettke, T.
 Implications of mineral reactions and disequilibrium processes for trace element signatures (Li, Be, B and REE) in peridotite minerals: a case study on xenoliths from Marsabit (Kenya)

11:45–12:00; EGU2007-A-09946; GMPV19-1MO2O-006
Dallai, L.; Xia, Q.; Chazot, G.; Deloule, E.
 Oxygen isotope and trace element compositions of peridotite xenoliths in Nushan Cenozoic basalts (SE China): implications for mantle metasomatism

12:00 END OF SESSION

GMPV19 Subduction vs intraplate lithospheric mantle: agents and processes – Posters

Convener: Coltorti, M.
 Co-Convener(s): Gregoire, M., Scambelluri, M.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 13:30–15:00
 Poster Area Hall A
 Chairperson: N.N.

A0094; EGU2007-A-02112; GMPV19-1MO3P-0094
Ishimaru, S.; Arai, S.
 New behavior of Ni in the mantle wedge deduced from high-Ni olivine in a peridotite xenolith from Avacha volcano, the Kamchatka arc

A0095; EGU2007-A-06342; GMPV19-1MO3P-0095
Scambelluri, M.; Hermann, J.; Morten, L.; Rampone, E.
 Melt- versus fluid-induced metasomatism in mantle wedge alpine peridotites (Ulten Zone, Eastern Italian Alps)

A0096; EGU2007-A-08734; GMPV19-1MO3P-0096
Malaspina, N.; Hermann, J.; Scambelluri, M.; Compagnoni, R.
 Ultra-high pressure garnet orthopyroxenite (Dabie Shan, China) as filters for Si-rich hydrous melts/supercritical liquids in deep subduction environments

A0097; EGU2007-A-06649; GMPV19-1MO3P-0097
Mironov, Yu.V.
 Peculiarities of island arc volcanism on different mantle-crust substrata

A0098; EGU2007-A-09498; GMPV19-1MO3P-0098
Vils, F.; Pelletier, L.; Kalt, A.; Ludwig, T.
 Light element input to subduction zones; results from ODP leg 209 peridotites

A0099; EGU2007-A-03947; GMPV19-1MO3P-0099
 Grégoire, M.; **Faccini, B.;** Coltorti, M.; Bonadiman, C.; Dantas, C.; Siena, F.
 Zr-enriched clinopyroxenes from Cerro del Fraile mantle xenoliths (Southern Patagonia)

Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 15:30–17:00

Poster Area Hall A
 Chairperson: N.N.

A0100; EGU2007-A-02588; GMPV19-1MO4P-0100
Grégoire, M.; Teitchou, M.I.; Dantas, C.; Tchoua, F.M.
 The upper mantle beneath the Kumba plain (Cameroon Line), documented by spinel peridotites from basaltic lavas.

A0101; EGU2007-A-08975; GMPV19-1MO4P-0101
Coltorti, M.; Bonadiman, C.; Faccini, B.
 Geochemical features of minerals and glasses in intraplate and suprasubduction lithospheric mantle

A0102; EGU2007-A-09098; GMPV19-1MO4P-0102
Boraso, R.; Coltorti, M.; Fiorentini, G.; Mantovani, F.; Morsilli, M.; Riva, A.; Rusciadelli, G.
 K, Th and U contents in Central Apennines continental crust: a contribution to the determination of the geoneutrinos flux at LNGS

A0103; EGU2007-A-09358; GMPV19-1MO4P-0103
Sushchevskaya, N.; Belyatsky, B.; Leitchenkov, G.
 Karoo-Maud plume - evolution within the Antarctic and its influence upon the magmatism of the Indian Ocean

A0104; EGU2007-A-09546; GMPV19-1MO4P-0104
Jamais, M.; Stracke, A.; Chauvel, C.; Hofmann, A.W.; Hémond, C.
 The magmatic evolution of Tubuai Island, Cook-Austral chain, South Pacific

A0105; EGU2007-A-10001; GMPV19-1MO4P-0105
Allard, P.; Jean-Baptiste, P.; Fourre, E.; Cellura, D.; Par-ello, F.; Peudevin, C.
 Helium isotope signature and the mantle source of OIB-type alkaline magmatism in Southern Mediterranean

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 17:30–19:00

Poster Area Hall A
 Chairperson: N.N.

A0106; EGU2007-A-11105; GMPV19-1MO5P-0106
Bozovic, M.
 Neogene volcanism of Jezevo Brdo (Macedonia): an unusual type of Mediterranean lamproites

A0107; EGU2007-A-00272; GMPV19-1MO5P-0107
Perchuk, A.
 Decrepitation Halos and Oriented Lamellae in Garnets from diamondiferous Gneiss, Saxonian Erzgebirge

A0108; EGU2007-A-01011; GMPV19-1MO5P-0108
Ashchepkov, I.V.; Pokhilenko, N.P.; Sobolev, N.V.; Vladyskin, N.V.; Rotman, A.Y.; Afanasiev, V.P.; Logvinova, A.M.; Kostrovitsky, S.I.; Stegnitsky, Yu.B.; Vishnyakova, E.V.
 Mantle structure and layering beneath the Siberian and other cratons produced by the interaction of the subduction and superplum events.

A0109; EGU2007-A-02489; GMPV19-1MO5P-0109
He, Y.H.; Zhao, G.C.; Sun, M.
 Geochemical and isotopic studies on the Xiyanghe volcanics at the southern margin of the North China Craton

Geodesy

G6 GNSS new capabilities for geosciences

Convener: Perosanz, F.
 Co-Convener(s): Weber, R.
 Lecture Room 6 (K)
 Chairperson: WEBER, R.

13:30–14:00; EGU2007-A-04130; G6-1MO3O-001
Navarro-Reyes, D.; Falcone, M.; Hahn, J.
 Galileo programme status and ongoing GIOVE experimentation (solicited)

14:00–14:15; EGU2007-A-11534; G6-1MO3O-002
 Mercier, F.; Laurichesse, D.; **Perosanz, F.;** Boulanger, C.
 First GIOVE-A orbit determination at CNES (solicited)

14:15–14:30; EGU2007-A-03263; G6-1MO3O-003
Soehne, W.; Gendt, G.; Rothacher, M.; GGSP Prototype Team
 GGSP: Realisation of the Galileo Terrestrial Reference Frame (solicited)

14:30–14:45; EGU2007-A-10412; G6-1MO3O-004
Svehla, D.; Heinze, M.
 Positioning with the four GNSS systems: GPS, GLONASS, GALILEO and BEIDOU based on phase clocks

14:45–15:00; EGU2007-A-05461; G6-1MO3O-005
Dach, R.; Schaer, S.; Urschl, C.; Ploner, M.; Hugentobler, U.
 Latest GNSS orbit modelling improvement at CODE

15:00 COFFEE BREAK

Chairperson: PEROSANZ, F.

15:30–16:00; EGU2007-A-11308; G6-1MO4O-001
Wubbena, G.
 New GNSS signals and ambiguity resolution (solicited)

16:00–16:15; EGU2007-A-10670; G6-1MO4O-002
Safari, A.; Ghanizadeh, M.
 Modifying the AFM method for the solution of phase ambiguity at sea areas

16:15–16:30; EGU2007-A-08768; G6-1MO4O-003
Cai, J.; Grafarend, E.W.
 Directional statistics and its application in the hypothesis testing of GPS integer ambiguity resolution

16:30–16:45; EGU2007-A-01032; G6-1MO4O-004
Ge, M.; Gendt, G.; Rothacher, M.; Shi, C.; Geng, J.; Liu, J.
 GNSS ambiguity resolution for precise point positioning in static and kinematic applications

16:45–17:00; EGU2007-A-05373; G6-1MO4O-005
Ardalan, A. A.; Joodaki, Gh.
 On the modeling of eigen-multipath behavior of permanent GPS stations

17:00 COFFEE BREAK

Chairperson: PEROSANZ, F.

17:30–17:45; EGU2007-A-03155; G6-1MO5O-001
Gao, Y.; Wang, M.
 Precise Point Positioning for Deformation Monitoring Using Post-Mission and Real-time Precise Orbit and Clock Products

17:45–18:00; EGU2007-A-06675; G6-1MO5O-002
 Dettmering, D.; **Soehne, W.;** Franke, P.; Weber, G.
 The use of GNSS real-time data streams for geodetic applications – first results and perspectives

18:00–18:15; EGU2007-A-06094; G6-1MO5O-003
Opitz, M.; Weber, R.; Caissy, M.; Broederbauer, V.
 Real Time GPS- Satellite- and Receiver Clock Estimation – An interactive RTIGS Web Service

18:15–18:30; EGU2007-A-03646; G6-1MO5O-004
Dousa, J.
 Continuous precise orbits for real-time

18:30–18:45; EGU2007-A-01499; G6-1MO5O-005
Shabanloui, A.; Ilk, K.H.
 Kinematical LEO Precise Orbit Determination (POD) with only sequential time differenced GPS SST carrier phase observations

18:45–19:00; EGU2007-A-05325; G6-1MO5O-006
Choliy, V.
 New GNSS processor (Juliette) for geodynamic and atmospheric tasks

19:00 END OF SESSION

G6 GNSS new capabilities for geosciences – Posters

Convener: Perosanz, F.
 Co-Convener(s): Weber, R.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 10:30–12:00
 Poster Area Halls X/Y
 Chairperson: PEROSANZ, F.

XY0214; EGU2007-A-11061; G6-1MO2P-0214
Ardalan, A. A.; Abdi, N.
 Permanent GNSS stations, valuable source of information for geosciences

XY0215; EGU2007-A-11037; G6-1MO2P-0215
Ardalan, A. A.; Shoorcheh, B.
 An experiment with monthly and seasonal variability of Water Vapor by the use of GPS observations at the permanent GPS station in Iran (Tehran-2005)

XY0216; EGU2007-A-07210; G6-1MO2P-0216
Karabatic, A.; Weber, R.; Leroch, S.
 Fast estimation of tropospheric water vapour content based on earth-fixed GNSS data and its potential contribution to weather forecasting

XY0217; EGU2007-A-02966; G6-1MO2P-0217
Todorova, S.; Weber, R.; Schuh, H.
 Estimation of GNSS instrumental biases and satellite altime-try time delays when determining global ionosphere maps

XY0218; EGU2007-A-06516; G6-1MO2P-0218
Schoenemann, E.; Zeimet, P.; Becker, M.
 Antenna phase centre corrections (PCO/PCV) and near field effects in the scope of GPS, GLONASS and GALILEO

XY0219; EGU2007-A-06503; G6-1MO2P-0219
 de Lacy, M. C.; Gil, A. J.; Rodríguez-Caderot, G.
 The effect of modernized GPS and Galileo in the theoretical limits of the precise point positioning

XY0220; EGU2007-A-01931; G6-1MO2P-0220
 Berrocoso, M.; Páez, R.; Fernández-Ros, A.; Sánchez-Alzola, A.; Pérez-Peña, A.; Gárate, J.
 Calculation and adjustment method of the RAP network to refer it to ITRF frame and quality checking of the coordinates obtained.

XY0221; EGU2007-A-07356; G6-1MO2P-0221
Weber, R.
 IGS requirements with respect to new GNSS signals - The GNSS Working Group of the IGS

XY0222; EGU2007-A-02964; G6-1MO2P-0222
Broederbauer, V.; Opitz, M.; Weber, R.
 Automated quasi-realtime prediction of GNSS clock corrections

XY0223; EGU2007-A-04302; G6-1MO2P-0223
Melachroinos, S. A.; Perosanz, F.; Biancale, R.
 GIOVE-A orbit determination and analysis of dynamical properties based on SLR tracking data

XY0224; EGU2007-A-01453; G6-1MO2P-0224
Shabanloui, A.; Ilk, K.H.
 Geometrical LEO Precise Orbit Determination (POD) with only sequential time differenced GPS SST carrier phase observations

G11 Geodetic and Geodynamic Programmes of the CEI (Central European Initiative)

Convener: Sledzinski, J.
 Co-Convener(s): Kostecky, J.
 Lecture Room 29
 Chairperson: MOJZES, M.

8:30–9:00; EGU2007-A-04790; G11-1MO1O-001
Hefty, J.; The Cergop Team
 Geokinematics of Central Europe: new insights from the CERGOP-2/Environment Project (solicited)

9:00–9:15; EGU2007-A-03183; G11-1MO1O-002
 Becker, M.; Caporali, A.; Drescher, R.; Gerhatova, L.; Gren-erczy, G.; Haslinger, C.; Hefty, J.; Krauss, S.; Liwosz, T.; Stangl, G.
 Reprocessing CEGRN campaigns 1994-2006

9:15–9:30; EGU2007-A-03185; G11-1MO1O-003
 Haslinger, C.; Krauss, S.; Stangl, G.
 Results from the South-Eastern-Alps-campaign 2006

9:30–9:45; EGU2007-A-04290; G11-1MO1O-004
Šimek, J.; Douša, J.; Filler, V.; Kostecký (jr.), J.; Pálinkáš, V.; Štěpánek, P.
 A Regional Contribution of CEI Countries to GGOS: Case Study GO Pecny, Czech Republic

9:45–10:00; EGU2007-A-10026; G11-1MO1O-005
Mantlik, F.; Schenk, V.; Schenkova, Z.; Gracova, M.
 The effects of frosty snow coverage on the GPS antennas and the possibilities of their being eliminated from the antenna positions time series

10:00 COFFEE BREAK

Chairperson: SIMEK, J.

10:45–11:00; EGU2007-A-08278; G11-1MO2O-002
Barlik, M.; Olszak, T.; Pachuta, A.
 Investigations of the long-standing gravity non-tidal variations at main tectonic units of Poland territory

11:00–11:15; EGU2007-A-07733; G11-1MO2O-003
Medak, D.; Pribicevic, B.; Medved, I.
 Application of 3D terrestrial laser scanning in geodynamic monitoring

11:15–11:30; EGU2007-A-07763; G11-1MO2O-004
 Pribicevic, B.; Medak, D.; Djapo, A.
 Precise geodetic and hydrographic measurements in karst areas

11:30–11:45; EGU2007-A-07029; G11-1MO2O-005
Milev, G.; Valev, G.; Vassileva, K.
 The new absolute gravity stations in Bulgaria and integration of the basic gravity network of the country to their system

11:45–12:00; EGU2007-A-00173; G11-1MO2O-006
Nuckelt, A.
 Interpolating a velocity field using Multilevel B-Splines

12:00 END OF SESSION

G11 Geodetic and Geodynamic Programmes of the CEI (Central European Initiative) – Posters

Convener: Sledzinski, J.
 Co-Convener(s): Kostecky, J.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: MEDAK, D.

XY0225; EGU2007-A-10735; G11-1MO5P-0225
Schenkova, Z.; Schenk, V.; Mantlik, F.; Gracova, M.; Kot-nauer, P.
 Regional geodynamic network HIGHLAND, the Bohemian Massif

XY0226; EGU2007-A-10756; G11-1MO5P-0226
Hrvatovic, H.; Mulic, M.
 Geodynamics, geotectonics, seismicity, seismotectonics of Dinarides of Bosnia and Herzegovina

XY0227; EGU2007-A-11398; G11-1MO5P-0227
Jarosiński, M.; Kryński, J.; **Rogowski, J. B.**
Study of the relationship between the tectonic stress and the deformation of the lithosphere in the territory of Poland – a new geodynamics research project

XY0228; EGU2007-A-11034; G11-1MO5P-0228
Szpunar, R.; Walo, J.
Monitoring of displacement of engineering objects using GPS-RTK technique

XY0229; EGU2007-A-11033; G11-1MO5P-0229
Walo, J.; Olszak, T.; Barlik, M.; Pachuta, A.; Szpunar, R.
Towards a Unified Gravimetric Reference Frame for Polish GNSS Stations and Geodynamic Test Fields

XY0230; EGU2007-A-09059; G11-1MO5P-0230
Zajac, M.; Kontny, B.
Comparison of periodic components of GPS time series for selected permanent stations on the area of CEI countries

XY0231; EGU2007-A-00278; G11-1MO5P-0231
Sledzinski, J.
New European initiative of regional co-operation: EUPOS INTERREG IIIC

XY0232; EGU2007-A-04669; G11-1MO5P-0232
Bogusz, J.
Role of environmental signals in the Earth tides observations: experiments at Jozefoslaw Observatory

XY0233; EGU2007-A-03616; G11-1MO5P-0233
Dousa, J.; Kosteletzky, J.
Improved ultra-rapid orbits from Geodetic Observatory Pecny

XY0234; EGU2007-A-07131; G11-1MO5P-0234
Drescher, R.; Becker, M.
Reference frame and model improvements in CEGRN

XY0235; EGU2007-A-06847; G11-1MO5P-0235
Mojzes, M.; Papco, J.
Determination of Vertical Movements by GPS and Absolute Gravity Measurements in the Tatra Mountain

XY0236; EGU2007-A-05564; G11-1MO5P-0236
Makar, A.
WGS-84 Ellipsoid as Vertical Reference System for Hydrographic Surveys

XY0237; EGU2007-A-05572; G11-1MO5P-0237
Naus, K.
Conception of DTM GRID type with Constant Area Method

XY0238; EGU2007-A-02687; G11-1MO5P-0238
Wozniak, M.; Adamek, A.
Monitoring of dynamic movements of Hans glacier control points using Smart Station

XY0239; EGU2007-A-11039; G11-1MO5P-0239
Wezka, K.; Pachuta, A.; Rajner, M.; Prochniewicz, D.; Walo, J.; Adamek, A.
Monitoring of thickness and movements of the Hans glacier surface in a period of 2005-2006 by using GPS-RTK technology

XY0240; EGU2007-A-09572; G11-1MO5P-0240
Kaminskis, JK; **Zhagars, JZ**
Common spatial reference frame in geo-informatics

XY0241; EGU2007-A-05680; G11-1MO5P-0241
Fellner, A.; Zajac, J.; Trominski, P.; Banaszek, K.; Jafarnik, H.; Cwiklak, J.
GNSS for aviation analysis based on EUPOS and GNSS/EGNOS collocated stations in PWSZ Chelm

XY0242; EGU2007-A-00016; G11-1MO5P-0242
Banachowicz, A.; Bober, R.; Dolgoplow, A.; Kozlowski, Z.; **Wolski, A.**
The use of a DGPS system in examining changes in the bathymetry of the Piastowski Canal (West Pomerania)

XY0243; EGU2007-A-00045; G11-1MO5P-0243
Banachowicz, A.; Banachowicz, G.; **Wolski, A.**
Calculation of the ship's position coordinates and the accuracy assessment in dead reckoning navigation

XY0244; EGU2007-A-00046; G11-1MO5P-0244
Banachowicz, A.; Banachowicz, G.; **Wolski, A.**
Calculating vectors of the ship's speed and acceleration by means of GPS/DGPS measurements

XY0245; EGU2007-A-11728; G11-1MO5P-0245
Nowak, A.
Influence of urban canyons on snapshot RAIM methods availability

XY0246; EGU2007-A-11729; G11-1MO5P-0246
Specht, C.; Nowak, A.
Some reliability aspects of determination the position in navigational systems

Geodynamics

GD08 Modelling and Monitoring the Deformation and State of Stress of the Lithosphere (co-sponsored by the International Lithosphere Program Task Force VII, co-listed in SM & G)

Convener: Heidbach, O.
Co-Convener(s): Fischer, K., Friedrich, A., Jonsson, S.
Lecture Room 23
Chairperson: HEIDBACH, O.

8:30–9:00; EGU2007-A-05824; GD08-1MO1O-001
Miyazaki, S.; Johnson, K.; Segall, P.; Hori, T.; Baba, T.
Postseismic deformation for over three years following the 2003 Tokachi-oki earthquake as observed by GPS measurements (solicited)

9:00–9:15; EGU2007-A-07053; GD08-1MO1O-002
Arnadottir, T.; Lund, B.; Jiang, W.; Geirsson, H.; Sturkell, E.; Sigmundsson, F.; Einarsson, P.; Sigurdsson, T.
Rapid uplift and plate spreading observed by GPS in Iceland

9:15–9:30; EGU2007-A-01401; GD08-1MO1O-003
Bai, W.; Chen, Z.; Lin, B.
1976 Tanshan earthquake and its effect to the deformation and movement of northeast china blocks

9:30–9:45; EGU2007-A-07795; GD08-1MO1O-004
Dogan, U.; Ergintav, S.; Gerstenecker, C.; **Roedelsperger, S.**
Interpretation of postseismic GPS and gravity changes

9:45–10:00; EGU2007-A-09188; GD08-1MO1O-005
Sankov, V.A.; Parfeevets, A.V.; Lukhnev, A.V.; Radziminovich, N.A.; Miroshnichenko, A.I.; Melnikova, V.I.
Recent crustal deformations of western part of Mongolia-Siberia mobile area: an integrated study

10:00 COFFEE BREAK

Chairperson: JONSSON, S.

10:30–11:00; EGU2007-A-10102; GD08-1MO2O-001
Lasserre, C.; Cavalie, O.; Peltzer, G.; Socquet, A.; Doin, M.-P.; Sun, J.; Xu, X.; Shen, Z.; Wang, Q.; Gaude-mer, Y.

Interseismic strain across the Altyn Tagh and Haiyuan faults at the northern edge of the Tibetan plateau, measured by space geodesy. (solicited)

11:00–11:30; EGU2007-A-01987; GD08-1MO2O-002
Walter, T. R.; Amelung, F.

InSAR ground deformation, data inversion and stress transfer in basaltic volcanoes. (solicited)

11:30–11:45; EGU2007-A-03783; GD08-1MO2O-003
Dalla Via, G.; Crippa, B.; Toraldo Serra, E. M.; Giacomuzzi, G.; Sabadini, R.
Coulomb failure and slip distribution for the 1997 Umbria-Marche seismic sequence inferred from newly inverted DInSAR data

11:45–12:00; EGU2007-A-05918; GD08-1MO2O-004
Fielding, E.J.; Lundgren, P.; Funning, G.J.; Burgmann, R.
Postseismic deformation during three years after the 2003 Bam, Iran earthquake from InSAR time series

12:00 LUNCH BREAK

Chairperson: FRIEDRICH, A.

13:30–14:00; EGU2007-A-04705; GD08-1MO3O-001
Furlong, K.P.; Williams, T.
Linking Geodetics and Geodynamics along the northern San Andreas system (solicited)

14:00–14:15; EGU2007-A-09973; GD08-1MO3O-002
Humphreys, E.; Coblenz, D.
North America Dynamics

14:15–14:30; EGU2007-A-07158; GD08-1MO3O-003
Eckert, A.; Buchmann, T.; Connolly, P.T.
Sources of the San Andreas Fault Stress Field – Insights from 3D numerical Models (solicited)

14:30–14:45; EGU2007-A-11363; GD08-1MO3O-004
Flerit, F.; Armijo, R.; King, G.C.P.; Friedrich, A.; Meyer, B.
The mechanics of the North Anatolian Fault propagation

14:45–15:00; EGU2007-A-07605; GD08-1MO3O-005
Plenefisch, T.; Klinge, K.
Spatiotemporal changes of the stress field in the Sunda Arc subduction zone after the 26 December 2004 Northern Sumatra earthquake inferred from inversions of earthquake focal mechanisms

15:00 COFFEE BREAK

Chairperson: FISCHER, K.

15:30–16:00; EGU2007-A-02264; GD08-1MO4O-001
Hampel, A.; Hetzel, R.
Response of Active Faults to Glacial-Interglacial Changes in Surface Loads (solicited)

16:00–16:15; EGU2007-A-08035; GD08-1MO4O-002
Lund, B.; Zoback, M.D.
Glacially Induced Faulting and the Tectonic State of Stress: Implications for the Large Endglacial Faults of Northern Scandinavia

16:15–16:30; EGU2007-A-09856; GD08-1MO4O-003
Doin, M.-P.; Cavalie, O.; Lasserre, C.; Briole, P.
Probing the lithosphere rheology using surface deformation associated with the Lake Mead load fluctuations

16:30–16:45; EGU2007-A-06005; GD08-1MO4O-004
Camelbeeck, T.; Vanneste, K.; Alexandre, P.; Bruyninx, C.; Van Camp, M.

Relevance of geodetic, seismicity and active faulting studies to assess lithospheric deformation and long-term earthquake activity in intraplate Northwest Europe

16:45–17:00; EGU2007-A-03606; GD08-1MO4O-005
Schemmann, K.; Oncken, O.
Velocity Fields and Strain Patterns as a Tool to determine driving Factors of an Orogen?

17:00 END OF SESSION

GD11 Kinematics and Geodynamics of the Central and Western Mediterranean (co-listed in TS, G & NH) – Posters

Convener: Govers, R.

Co-Convener(s): Faccenna, C.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 13:30–15:00

Poster Area Hall A

Chairperson: N.N.

A0110; EGU2007-A-01778; GD11-1MO3P-0110
Martin-Rojas, I.; Delgado, F.; Di Bella, E.; Estevez, A.; Macaione, E.; Messina, A.; Somma, R.
Tectonometamorphic evolution of the westernmost segment of the Alpine peri-Mediterranean Chains. Evidences from the Sierra de Gador (Betic Internal Zone, Spain)

A0111; EGU2007-A-01781; GD11-1MO3P-0111
Martin-Rojas, I.; Alfaro, P.; Estévez, A.; Martin-Martin, M.
Recent deformation in the basement of the Bajo Segura Basin

A0112; EGU2007-A-01782; GD11-1MO3P-0112
Somma, R.; **Martin-Rojas, I.;** Messina, A.; Perrone, V.
The exhumed Mesozoic “Verrucano” redbeds of the Peloritani Alpine Belt (NE Sicily, southern Italy)

A0113; EGU2007-A-02093; GD11-1MO3P-0113
Reeh, G.; Abdunaser, K.
Geophysical and remote sensing techniques as tools for structural geological interpretation of Cyrenaica platform NE Libya

A0114; EGU2007-A-02642; GD11-1MO3P-0114
Altiner, Y.; Basic, Z.; Basic, T.; Coticchia, A.; Medved, M.; Mulic, M.; Nurce, B.
Motion of the Adria plate inferred from GPS observations

A0115; EGU2007-A-04309; GD11-1MO3P-0115
Cheloni, D.; D’Agostino, N.; Hunstad, I.; Selvaggi, G.
An upper bound on the rate of strain across the Messina Straits, southern Italy, from triangulation measurements between 1971 and 2004

A0116; EGU2007-A-04770; GD11-1MO3P-0116
Estevez, A.; Martin-Rojas, I.; Alfaro, P.; Martin-Martin, M.
The Vent – s-Maigmo Strike-Slip Fault Zone (Alicante province, SE Spain): evidences of Miocene tectonic control on sedimentation

A0117; EGU2007-A-05275; GD11-1MO3P-0117
Billi, A.; Presti, D.; **Faccenna, C.;** Neri, G.; Orecchio, D.
Seismotectonics of southern Tyrrhenian area: a case of reorganization of a contractional margin

A0118; EGU2007-A-06064; GD11-1MO3P-0118
Lustrino, M.; Morra, V.; Fedele, L.; Serracino, M.
The transition between orogenic and anorogenic magmatism in the western Mediterranean area. The Middle Miocene volcanic rocks of Isola del Toro (SW Sardinia, Italy)

A0119; EGU2007-A-06156; GD11-1MO3P-0119
Ferrante, V.; Scrocca, D.; Doglioni, C.; Gasperini, L.; Recanati, R.; Chiarabba, C.; Guerrini, M.; Anastasio, M.
 Crustal setting of the southern Tyrrhenian sea: new insight based on the reprocessed CROP M6A seismic profile

A0120; EGU2007-A-06652; GD11-1MO3P-0120
 Balanyá, J.C.; Crespo-Blanc, A.; **Díaz-Azpiroz, M.;** Expósito, I.; Luján, M.; Torcal, F.
 Strain partitioning in the Western Gibraltar Arc: new clues on the Miocene kinematics of the westernmost Mediterranean

A0121; EGU2007-A-06673; GD11-1MO3P-0121
 Expósito, I.; Balanyá, J.C.; Crespo-Blanc, A.; **Díaz-Azpiroz, M.;** Luján, M.
 Style decoupling within the Gibraltar Arc external wedge: a record of strain in a divergent thrusting setting

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 15:30–17:00

Poster Area Hall A
 Chairperson: N.N.

A0122; EGU2007-A-06821; GD11-1MO4P-0122
 Mattia, M.; Bruno, V.; **Palano, M.;** Gresta, S.; Rossi, M.
 Geodynamical aspects of the Eurasia-Nubia collision zone in Sicily (Italy): new data from a dense CGPS network

A0123; EGU2007-A-07304; GD11-1MO4P-0123
Gutscher, M.-A.; Dominguez, S.; Westbrook, G.; Gente, P.; Babonneau, N.; Mulder, T.; Gonthier, E.; Bartolome, R.; Luis, J.; Rosas, F.
 Tectonic shortening and gravitational spreading in the Gulf of Cadiz accretionary wedge: results from bathymetric swathmapping and seismic surveys

A0124; EGU2007-A-07332; GD11-1MO4P-0124
Minelli, L.; Casero, P.; Faccenna, C.
 Evolution of the Calabrian accretionary prism: preliminary results

A0125; EGU2007-A-07611; GD11-1MO4P-0125
Garate, J.; Martin Davila, J.; Khazaradze, G.; Gil, A.; Jimenez-Munt, I.; Gallastegui, J.; Ayala, C.; Tellez, J.; Ayarza, P.
 Topo-Iberia Project: GPS planned contribution

A0126; EGU2007-A-08771; GD11-1MO4P-0126
 Nigro, F.; Favara, R.; Renda, P.; Arisco, G.; Perricone, M.; Pisciotta, A.
 Neotectonic uplift and crustal blocks tilting in Northern Sicily (Central Mediterranean)

A0127; EGU2007-A-08785; GD11-1MO4P-0127
Galvani, A.; Anzidei, M.; Devoti, R.; Dramis, F.; Galadini, F.; Pesci, A.; Pietrantonio, G.; Loddo, F.
 Active tectonics across the Central Apennines (Italy) from geodetic and geomorphologic investigations

A0128; EGU2007-A-08809; GD11-1MO4P-0128
 Nigro, F.; Favara, R.; Renda, P.
 Contribution to constraints the structural model of Sicily

A0129; EGU2007-A-08984; GD11-1MO4P-0129
Matonti, F.; Zerbini, S.; De Simone, E.
 Horizontal motion vectors from a network of permanent GPS stations in northeastern Italy

A0130; EGU2007-A-09712; GD11-1MO4P-0130
Ruiz-Constán, A.; Galindo-Zaldívar, J.; Pedrera, A.
 Deep resistivity image of the western transect of the Betic Cordilleras (Southern Spain) from MT soundings

A0131; EGU2007-A-10683; GD11-1MO4P-0131
Soto, J.I.; Fernández-Ibáñez, F.
 Active tectonics and deformation partitioning in the Gibraltar Arc

A0132; EGU2007-A-10708; GD11-1MO4P-0132
Kherroubi, A.; Déverchère, J.; Yelles, A.K.; Mercier de Lépinay, B.; Domzig, A.; Cattaneo, A.; Bracène, R.; Graindorge, D.; Gaullier, V.
 New evidences for recent uplift, thrusting and folding offshore easternmost Algeria

A0133; EGU2007-A-11179; GD11-1MO4P-0133
Laurita, S.; Balestrieri, M.L.; Bigazzi, G.; Prosser, G.; Rizzo, G.
 Zircon fission track data in the continental crust rocks of Southern Apennines

Geomorphology

GM8 High Mountain Geomorphology – Posters

Convener: Kuhle, M.
 Co-Convener(s): Iturrizaga, L.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: ITURRIZAGA, L.

XY0247; EGU2007-A-03575; GM8-1MO5P-0247
Ebert, K.;
 Palaeosurface remnants and surface generations in the high mountain zone of northern Sweden

XY0248; EGU2007-A-04918; GM8-1MO5P-0248
Sass, O.;
 GPR investigations on talus slopes - towards bridging the gap between short-term and long-term debris fall rates

XY0249; EGU2007-A-05222; GM8-1MO5P-0249
Sass, O.; Krautblatter, M.
 New insights into structure and evolution of alpine sediment bodies from GPR measurements

XY0250; EGU2007-A-01772; GM8-1MO5P-0250
Wagner, M.;
 Equilibrium line calculations and pedological investigations as glacio-chronological tools - a case study for the Kali Gandaki (Nepal Himalaya)

XY0251; EGU2007-A-06300; GM8-1MO5P-0251
Heyman, J.; Hättestrand, C.; Stroeve, A.P.
 A glacial geomorphological map of the northeastern Tibetan plateau

GM12 Dynamics of landscape transience (co-listed in GD)

Convener: Reinhardt, L.
 Co-Convener(s): Bishop, P., Ellis, M., Lang, A.
 Lecture Room 17 (M)
 Chairperson: N.N.

8:30–8:45; EGU2007-A-10645; GM12-1MO10-001
Govers, G.; Van Oost, K.; Poesen, J.
 Responses of a semi-arid landscape to human disturbance: A

8:45–9:00; EGU2007-A-03499; GM12-1MO10-002
 Nield, J.M.; **Baas, A.C.W**
 Modelling Vegetated Dune Field Response to Changes in Environmental Conditions

9:00–9:15; EGU2007-A-04215; GM12-1MO1O-003

Lague, D.; Turowski, J.

Numerical modelling of transient bedrock channel dynamics and terrace formation (solicited)

9:15–9:30; EGU2007-A-04386; GM12-1MO1O-004

Hergarten, S.

Longitudinal river profiles as tectonic archives

9:30–9:45; EGU2007-A-07033; GM12-1MO1O-005

Haviv, I.; Enzel, Y.; Whipple, K.; Zilberman, E.; Ari, M.; Stone, J.; Fifield, K.

Controls on lip elevation, lip-to-toe height and rate of face retreat of vertical knickpoints

9:45–10:00; EGU2007-A-02654; GM12-1MO1O-006

Hobley, D.; Sinclair, H.; Cowie, P.

The role of knickzones in governing downstream channel evolution

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-06783; GM12-1MO2O-001

Turowski, J.M.; Hovius, N.; Lague, D.; Hsieh, M.-L.; Horng, M.-J.

Sediment Controls on Bedrock Channel Morphology

10:45–11:00; EGU2007-A-10946; GM12-1MO2O-002

Barbour, J. R.; Stark, C. P.; Lin, C.-W.; Chen, H.; Zhong, H.; Horng, M.-J.

Planform and cross-sectional geometry of incising mountain rivers

11:00–11:15; EGU2007-A-05300; GM12-1MO2O-003

Cowie, P.; Attal, M.; Whittaker, A.; Roberts, G.; Ganas, A.

Using non-steady state landscapes in active tectonic settings to quantify the effect of sediment flux in controlling bedrock incision rates (solicited)

11:15–11:30; EGU2007-A-04483; GM12-1MO2O-004

Whittaker, A.; Cowie, P.; Attal, M.; Tucker, G.; Roberts, G. Characterising river response to active normal faulting: From transient landscape to topographic steady state.

11:30–11:45; EGU2007-A-05001; GM12-1MO2O-005

Attal, M.; Tucker, G.E.; Cowie, P.A.; Whittaker, A.C.; Roberts, G.P.

Modelling fluvial incision and transient landscape evolution: reconciling theory and field observations

11:45–12:00; EGU2007-A-07228; GM12-1MO2O-006

Van Melle, J.; van der Beek, P.; Pêcher, A.; Latif, M.

Why is Deosai so high (and flat)?

12:00 END OF SESSION

GM12 Dynamics of landscape transience (co-listed in GD) – Posters

Convener: Reinhardt, L.

Co-Convener(s): Bishop, P., Ellis, M., Lang, A.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0252; EGU2007-A-01755; GM12-1MO5P-0252

Richardson, K.; Carling, P.A.

Hydraulics of supraglacial channels: effects of sinuosity and discharge on longitudinal dispersion: implications for bedrock channel evolution

XY0253; EGU2007-A-02172; GM12-1MO5P-0253

Malverti, L.; Lajeunesse, E.; Metivier, F.

Response of an experimental micro-scale river to a vertical offset of its bed

XY0254; EGU2007-A-09361; GM12-1MO5P-0254

Francalanci, S.; Solari, L.

A monitoring activity on bedrock incision in the Cardoso River (Tuscany, Italy)

XY0255; EGU2007-A-02623; GM12-1MO5P-0255

Mohammadi, A.; Mosaedi, A.; Alaghmand, S.; Zlatich-jugovic, J.

Investigation on changes of the Gorgan River morphology in the vicinity of Gonbad City

XY0256; EGU2007-A-09676; GM12-1MO5P-0256

Mugnier, J.L.; Granjeon, D.

Fill terraces and evolution of river profiles in a mountain belt: a view from a numerical modelisation of the upper catchment of the Rio Pilcomayo (Bolivia)

XY0257; EGU2007-A-07966; GM12-1MO5P-0257

Vassallo, R.; ritz, J-F.; braucher, r.; jolivet, m.; carretier, s.; larroque, c.; todbileg, m.; arzhannikova, a.; arzhannikov, s.; bourlès, d.

Incision of fluvial terraces within an uplifting massif in the Gobi-Altay mountain range (Mongolia) : deciphering between tectonic and climatic processes

XY0258; EGU2007-A-04888; GM12-1MO5P-0258

Carcaillet, J.; Mugnier, J. L.; Chabreyrou, J.; Koçi, R.; Jouanne, F.

Tectonic, eustatic, and climatic controls on terrace development: the example of the Albanian terraces

XY0259; EGU2007-A-06934; GM12-1MO5P-0259

Turowski, J.M.; Lague, D.; Hovius, N.

Bedrock Channel Response to Tectonic Forcing

XY0260; EGU2007-A-10677; GM12-1MO5P-0260

Bell, R.; Hoffmann, T.; Meyer, N.

Transient perturbation of fluvial systems by landsliding: Examples from the Swabian Alb (SW-Germany)

XY0261; EGU2007-A-10854; GM12-1MO5P-0261

Heyman, J.; Stroeve, A.P.; Hättstrand, C.; Harbor, J.; Zhou, L.P.; Dong, J.Y.; Li, Y.K.; Alexanderson, H.; Caffee, M.W.; Haizhou, M.

Landscape evolution of the northeastern Tibetan plateau – relict surfaces and fluvial margins

XY0262; EGU2007-A-09028; GM12-1MO5P-0262

Otto, J.C.

Paraglacial landform quantification in the Turtmann Valley, Swiss Alps

XY0263; EGU2007-A-04363; GM12-1MO5P-0263

Stüwe, K.; Fabel, D.; Kusch, H.

Morphological evolution of the Mur valley, Austria. Constraints from cosmogenic burial ages

XY0264; EGU2007-A-07358; GM12-1MO5P-0264

Krugh, W.; Densmore, A.; Seward, D.

Range Scale Pattern of Denudation along the Ruby Mountains/East Humboldt Range, Nevada, USA; new insights from low-temperature thermochronology.

GM14 Natural hazards, extreme events, and mountain topography (co-listed in NH) – Posters

Convener: Korup, O.

Co-Convener(s): Crosta, G.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0265; EGU2007-A-02324; GM14-1MO5P-0265

Tagliavini, F.; Cavalli, M.

Structural setting, morphology and surface processes in rock gullies: a case study in the Dolomites.

XY0266; EGU2007-A-04294; GM14-1MO5P-0266

Huggel, C.

Large mass movements from glacierized and permafrost affected mountain regions: an analysis of potential climate-change related alteration of magnitude-frequency characteristics based on recent events (solicited)

XY0267; EGU2007-A-04466; GM14-1MO5P-0267

May, J.-H.; Röhringer, I.; Korup, O.; Veit, H.

The natural hazard of avulsive fluvial systems - an example from Eastern Bolivia

XY0268; EGU2007-A-06220; GM14-1MO5P-0268

Centurini, A.; Metiviér, F.; Lajeunesse, E.; Martin, S.

Geomorphological analysis of Liro and Livo catchment basins in Northern Como Lake (Italy)

XY0269; EGU2007-A-06419; GM14-1MO5P-0269

Dunning, S.A.; Rosser, N.J.; Petley, D.N.

Rock avalanches and topography - a temporally and spatially dynamic natural hazard (solicited)

XY0270; EGU2007-A-06646; GM14-1MO5P-0270

Pavanelli, N.; Nesci, O.; Vaselli, O.; Capaccioni, B.; Duarte, E.

Morphological analysis of the Irazu-Turrialba Volcanic Massif (Costa Rica)

XY0271; EGU2007-A-06914; GM14-1MO5P-0271

Jamileh Vasheghani Farahani, j.v.f.; Mehdi Zare, m.z

Investigation of frequency content and Stress drop based on Main shock Records Darb_e_Astaneh (Silakhor) Earthquake, March 31, 2006

XY0272; EGU2007-A-08919; GM14-1MO5P-0272

Baron, I.; Hradecky, P.; Havlicek, P.; Novotny, R.

Great geomorphic changes due to Upper Tertiary / Quaternary tectonic subsidence, volcanism and deep-seated landslides: An example from NW Nicaragua, Central America

XY0273; EGU2007-A-09047; GM14-1MO5P-0273

Janda, C.; Reitner, J.M.

The impact of rapid mass movements on valleys: Examples from the Eastern Alps

XY0274; EGU2007-A-09426; GM14-1MO5P-0274

Kasprzak, M.

Distribution of erosion and accumulation zones in relation to valley morphology, a case study from the flood on the Kwis river on 7 August 2006 (Sudetes, SW Poland)

XY0275; EGU2007-A-10432; GM14-1MO5P-0275

Bodoque, J.M.; Diez-Herrero, A.; Olivera, F.

Hydro-geomechanical and hydraulic methods for the analysis of the 1997 Cabrera River debris flood in the Spanish Central System

XY0276; EGU2007-A-11086; GM14-1MO5P-0276

Manfreda, S.; Sole, A.; Fiorentino, M.

Can the basin morphology alone provide an insight on floodplain delineation?

GM21 New applications of terrestrial cosmogenic nuclides in Earth surface science (co-listed in IG)

Convener: Dunai, T.

Co-Convener(s): Stuart, F., Benedetti, L.

Lecture Room 17 (M)

Chairperson: N.N.

13:30–13:45; EGU2007-A-01623; GM21-1MO3O-001

Vermesch, P.

CosmoCalc: an Excel Add-In for cosmogenic nuclide calculations

13:45–14:00; EGU2007-A-02438; GM21-1MO3O-002

Codilean, A.T.; Hoey, T.B.; Bishop, P.; Stuart, F.M.

Interpreting a frequency distribution of single-grain cosmogenic ²¹Ne concentrations in coarse fluvial clasts in terms of spatially variable bedrock erosion rates and/or post-detachment sediment residence times

14:00–14:15; EGU2007-A-07706; GM21-1MO3O-003

Gayer, E.; Mukhopadhyay, S.; Meade, B.

Spatial variability of erosion rates from frequency distribution of cosmogenic ³He in olivine grains from Hawaiian river sediments.

14:15–14:30; EGU2007-A-02598; GM21-1MO3O-004

Siame, L.; Chu, H.-T.; Lee, J.-C.; Angelier, J.; Bourlès, D.; Braucher, R.; Carcaillet, J.; Watremez, L.; Gamberre, R. Denudation and landscape preservation in Taiwan: the cosmic ray exposure perspective

14:30–14:45; EGU2007-A-06559; GM21-1MO3O-005

Chu, H.-T.; Siame, L. L.; Lu, S.-W.; Wei, C.-Y.

The Preservation of Glacial Erosional Forms and Landscapes of the last Glaciations in subtropical area: Examples from the High Mountains of Taiwan

14:45–15:00; EGU2007-A-05033; GM21-1MO3O-006

Schlagenhauf, A.; Benedetti, L.; Manighetti, I.

Earthquake repeat on normal faults: new insights from in-situ ³⁶Cl exposure dating, Central Apennines, Italy

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-05013; GM21-1MO4O-001

Saillard, M.; Audin, L.; Héral, G.; Carretier, S.; Regard, V.; Ortlieb, L.; Hall, S.; Farber, D.; Martinod, J.; Macharé, J. ¹⁰Be and ²⁶Al dating of marine terraces to quantify the uplift of Peruvian and Chilean coastal areas

15:45–16:00; EGU2007-A-07273; GM21-1MO4O-002

Fogwill, C.J.; Sugden, D.E.; Bentley, F.M.; Stuart, P.W.; Kubik, A.R.; Foeken, J.

Landscape and glacial history of the Shackleton Range, Weddell Sea Embayment Antarctica: Insights from a cosmogenic multi-isotope approach

16:00–16:15; EGU2007-A-10755; GM21-1MO4O-003

Fabel, D.; Stroeve, A. P.

Evaluating a cosmogenic nuclide calibration site at Mt Billingen, Sweden

16:15–16:30; EGU2007-A-02196; GM21-1MO4O-004

Merchel, S.; Braucher, R.; Benedetti, L.; Bourlès, D.

Dating carbonate rocks with in-situ produced cosmogenic Be-10: why it often fails

16:30–16:45; EGU2007-A-02751; GM21-1MO4O-005

Fernández-Mosquera, D.; Martí, K.; Vidal-Romaní, J.R.

Cosmic ray neon production at large depths: The ²¹Ne / ¹⁰Be ratio and the BeNe project.

16:45–17:00; EGU2007-A-04026; GM21-1MO4O-006
Niedermann, S.; Pilz, P.; Goethals, M.
 Cross-calibration of cosmogenic ^3He and ^{21}Ne production rates in olivine, pyroxene and quartz

17:00 END OF SESSION

GM21 New applications of terrestrial cosmogenic nuclides in Earth surface science (co-listed in IG) – Posters

Convener: Dunai, T.
 Co-Convener(s): Stuart, F.; Benedetti, L.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0277; EGU2007-A-01960; GM21-1MO5P-0277
Mai, K.; van der Borg, K.
 Cosmogenic nuclides – Calibration sites for ^{36}Cl on Fuerteventura, Canary Islands, Spain

XY0278; EGU2007-A-02169; GM21-1MO5P-0278
Merchel, S.; Benedetti, L.; Braucher, R.; Bourlès, D.
 Chlorine-36 data from CRONUS-EU calibration sites - Recent landslides in the Southern French Alps

XY0279; EGU2007-A-02177; GM21-1MO5P-0279
Kubik, P.W.; Ivy-Ochs, S.; Kerschner, H.
 Multiple prehistoric landslides at Köfels (Austria): Timing by cosmogenic ^{10}Be

XY0280; EGU2007-A-02389; GM21-1MO5P-0280
Rixhon, G.; Bovy, B.; Hallot, E.; Bourlès, D.; Demoulin, A.
 The quaternary uplift and river incision of the Rhenish Massif: a cosmogenic nuclides (^{10}Be) approach

XY0281; EGU2007-A-02911; GM21-1MO5P-0281
 Strasky, S.; **Di Nicola, L.;** Oberholzer, P.; Baroni, C.; Salvatore, M.C.; Baur, H.; Kubik, P.W.; Wieler, R.; Schlüchter, C.
 Pleistocene East Antarctic Ice Sheet variations in the Ricker Hills

XY0282; EGU2007-A-03510; GM21-1MO5P-0282
Carretier, S.; Regard, V.
 Theoretical cosmogenic nuclide concentrations in pebbles along river course

XY0283; EGU2007-A-03919; GM21-1MO5P-0283
Goethals, M.; Hetzel, R.; Fenton, C.; Niedermann, S.
 Rates of erosion along actively growing normal faults: The cosmogenic Ne-21 inventory from quartz of the Bishop Tuff (California)

XY0284; EGU2007-A-04097; GM21-1MO5P-0284
Di Nicola, L.; Strasky, S.; Baroni, C.; Salvatore, M.C.; Kubik, P.W.; Ivy-Ochs, S.; Wieler, R.; Akcar, N.; Schluechter, C.
 Exposure history of pre-LGM glacial drifts in Terra Nova Bay: field work and first results from the XX and XXI Italian Antarctic expeditions

XY0285; EGU2007-A-04288; GM21-1MO5P-0285
Shabanian, E.; Siame, L.; Bellier, O.; Benedetti, L.; Abbassi, M.-R.
 Quaternary slip-rates in the Kopet Dag Mountains, NE Iran

XY0286; EGU2007-A-04431; GM21-1MO5P-0286
Fenton, C.R.; Niedermann, S.; Goethals, M.; Schneider, B.
 Evaluation of cosmogenic ^3He and ^{21}Ne concentrations in an olivine-rich Pleistocene basalt flow, western Grand Canyon National Park, Arizona, USA

XY0287; EGU2007-A-06332; GM21-1MO5P-0287
Kober, F.; Baur, H.; Menet, U.; Wieler, R.
 A new extraction line for terrestrial produced cosmogenic ^{14}C at the Isotope Geochemistry lab of ETH Zurich, Switzerland

XY0288; EGU2007-A-05015; GM21-1MO5P-0288
Pinzuti, P.; Manighetti, I.; Gaudemer, Y.; Finkel, R.C.; Ryerson, F.J.
 Growth and propagation of normal faults in the Asal-Ghoubbet rift from chlorine-36 cosmogenic dating and offset measurements

XY0289; EGU2007-A-08428; GM21-1MO5P-0289
Dunai, T.J.; The CRONUS-EU team
 CRONUS-EU – advancing cosmogenic nuclide methodology

XY0290; EGU2007-A-09514; GM21-1MO5P-0290
Haeussler, R.; Dunai, T.; Stuart, F.; Gonzalez Lopez, G.
 ^{21}Ne and ^3He ages on quartz and Fe-Ti-oxide minerals from the Atacama Desert, northern Chile

XY0291; EGU2007-A-09629; GM21-1MO5P-0291
Binnie, S.; Dunai, T.; Gonzalez, G.
 A novel approach to determine the rates of displacement on thrust faults using terrestrial cosmogenic nuclides

XY0292; EGU2007-A-09641; GM21-1MO5P-0292
Foeken, J.; Day, S.; Stuart, F.
 Cosmogenic ^3He exposure dating of the Quaternary lavas at Fogo, Cape Verde Islands

XY0293; EGU2007-A-09925; GM21-1MO5P-0293
Schimmelpfennig, I.; Benedetti, L.; Pik, R.; Burnard, P.; Blard, P.H.
 In situ cosmogenic ^{36}Cl chemistry on silicates from basaltic flows of Mount Etna (Sicily 38°N)

XY0294; EGU2007-A-10055; GM21-1MO5P-0294
Schneider, B.; Wijbrans, J.R.; Kuiper, K.F.
 A furnace extraction system for $^{40}\text{Ar}/^{39}\text{Ar}$ geochronology of young basalts

Geosciences Instrumentation and Data Systems

GI1 Open session on Geoscience Instrumentation (co-listed in GMPV, G, HS, MPRG, NH, OS & SM)

Convener: Korepanov, V.
 Co-Convener(s): Svedhem, H., Harri, A.
 Lecture Room 2
 Chairperson: N.N.

13:30–13:45; EGU2007-A-00617; GI1-1MO3O-001
Doneva, B.; Delipetrev, B.; Panovska, S.; Dimov, G.
 Measurements electromagnetic radiation the frequency of 50 Hz

13:45–14:00; EGU2007-A-00682; GI1-1MO3O-002
Korepanov, V.; Klymovych, Ye.; Kuznetsov, O.; Prosenko, V.; Prystai, A.
 A super-wide band magnetotelluric instrument

14:00–14:15; EGU2007-A-02672; GI1-1MO3O-003
Yakymchuk, M.A.; Korchagin, I.N.; Levashov, S.P.; Bozhezha, D.N.
 Express-technology of "direct" searching and prospecting for hydrocarbon deposits by geoelectric methods

14:15–14:30; EGU2007-A-01597; GI1-1MO3O-004
Heilig, A.; Schneebeli, M.
 Using thresholding for an automated helicopter-based detection of avalanche victimd with ground-penetrating radar (GPR)

14:30–14:45; EGU2007-A-02727; GI1-1MO3O-005
Greco, F.; Napoli, R.; Del Negro, C.; Sicali, A.; Budetta, G.; Carbone, D.; Currenti, G.
 A geophysical data processing tool for active volcanoes monitoring: the 2006 Etna (Italy) eruption case study

14:45–15:00; EGU2007-A-05807; GI1-1MO3O-006
Hyun, C.U.; Park, H.D.
 Nondestructive inspection for stone monuments using reflectance spectroscopy

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-09881; GI1-1MO4O-001
Khan, S.D.; **Heggy, E.;** Fernandez, J.
 Mapping Buried Lava Flows using Synthetic Aperture and Ground Penetrating Radars in Craters of the Moon Lava Field, Idaho, USA

15:45–16:00; EGU2007-A-11321; GI1-1MO4O-002
Brenner, I.; Chung, C-H.; You, C-F.
 Evaluation of high resolution magnetic sector ICP-MS for REE determinations in complex water samples

16:00–16:15; EGU2007-A-07410; GI1-1MO4O-003
Obersteiner, M.; Kraxner, F.; Fritz, S.; McCallum, I.
 Global Earth Observation – Benefit Estimation

16:15–16:30; EGU2007-A-09806; GI1-1MO4O-004
Ameri, F.; Valadan Zoej, M.J.; Mokhtarzade, M.
 Road network extraction from IKONOS satellite images based on c-means and FCM clustering in spectral and spatial domain

16:30–16:45; EGU2007-A-04348; GI1-1MO4O-005
Savenko, Y.; Vodotovka, V.
 Real-time monitoring system in millimetre and optical ranges

16:45–17:00; EGU2007-A-10865; GI1-1MO4O-006
Massinas, B.A.; Doufexopoulou, M.G.; Bartha, G.
 An attempt to discover hidden dynamical patterns in sea areas using satellite altimetry

17:00 COFFEE BREAK

Chairperson: N.N.

17:30–17:45; EGU2007-A-07290; GI1-1MO5O-001
Mursch-Radlgruber, E.
 Measurement of coherent structures in the atmospheric surface boundary layer by a multiple beam mini SODAR

17:45–18:00; EGU2007-A-05635; GI1-1MO5O-002
Naslin, S.; Van Ruymbeke, M.
 Application of earth tides instrumentation in the measurement of the universal constant of gravitation G, description of the specificities of our experiment

18:00–18:15; EGU2007-A-11633; GI1-1MO5O-003
Jiménez-Ruiz, M.
 Neutron scattering methods for studies in geoscience

18:15–18:30; EGU2007-A-01480; GI1-1MO5O-004
Milyukov, V.; Kopaev, A.; Mironov, A.; Myasnikov, A.
 Application of long-base laser interferometer for monitoring crustal deformations in a wide frequency band: the Northern Caucasus case study

18:30–18:45; EGU2007-A-07511; GI1-1MO5O-005
Frei, D.; Bernstein, S.; McLimans, R.; Knudsen, C.
 Application of CCSEM to heavy mineral deposits: source of high-Ti ilmenite sand deposits of South Kerala beaches, SW India

18:45–19:00; EGU2007-A-08245; GI1-1MO5O-006
Kaczorowski, M.
 Long water-tube tiltmeter in Geodynamic Laboratory in Ksiaz, Poland

19:00 END OF SESSION

GI9 Down hole Instrumentation: Technology and Applications (co-listed in GM, GMPV, PS, SSP & SSS)

Convener: Gaillot, P.
 Co-Convener(s): Celerier, B., Brewer, T.
 Lecture Room 2
 Chairperson: N.N.

10:30–10:45; EGU2007-A-06468; GI9-1MO2O-001
Kueck, J.; Prevedel, B.
 ICDP – Permanent downhole monitoring strategy

10:45–11:00; EGU2007-A-05895; GI9-1MO2O-002
Lee, M.; Gladwin, M. T.; Liu, T. K.
 Three Component Borehole Strain Measurement in western Taiwan

11:00–11:15; EGU2007-A-09085; GI9-1MO2O-003
Williams, J. F.; Lovell, M.A.; Brewer, T. S.; Buecker, C.; Jackson, P. D.; Camps, A. P.
 Formation evaluation of Gas Hydrate bearing sediments using probabilistic software

11:15–11:30; EGU2007-A-06830; GI9-1MO2O-004
Inwood, J.; Brewer, T.; Braaksma, H.; Pezard, P.
 Integration of drilling parameters, wireline logging and core data to estimate core recovery and location: an example from IODP Expedition 310

11:30–11:45; EGU2007-A-06666; GI9-1MO2O-005
Morel, J.; Baland, C.; Armand, G.
 Measurement of the effect of reconfinement on rock properties around a slot

11:45 END OF SESSION

Hydrological Sciences

HS2 Remote sensing retrieval techniques and data assimilation

Convener: Verhoest, N.
 Co-Convener(s): Tedesco, M., Loew, A., Wagner, W.
 Lecture Room 28 (B)
 Chairperson: N.N.

8:30–8:45; EGU2007-A-05573; HS2-1MO1O-001
Troemel, S.; Simmer, C.
 Integral Radar Volume Descriptors for Quantitative Areal Precipitation

8:45–9:00; EGU2007-A-09976; HS2-1MO1O-002
Tedesco, M.; Kokhanovsky, A.
 Grain size retrieval from MODIS data using a semi-analytical retrieval algorithm (SARA) and a fractal snow grain model

9:00–9:15; EGU2007-A-09164; HS2-1MO1O-003
Colombi, A.; De Michele, C.; Pepe, M.; Rampini, A.; Rossi, S.
Estimation of daily mean air temperature from MODIS Land Surface Temperature data in Alpine areas

9:15–9:30; EGU2007-A-05685; HS2-1MO1O-004
Chanzy, A.; Cros, S.; Weiss, M.; Berthelot, B.; Berger, M.; Calvet, J.-C.; Wigneron, J.-P.
Improving soil moisture retrieval from SMOS using the synergy with other sensors or meteorological data.

9:30–9:45; EGU2007-A-01583; HS2-1MO1O-005
Verhoest, N.; Vernieuwe, H.; De Baets, B.
Uncertainty assessment on soil moisture retrieval from ALOS PALSAR data

9:45–10:00; EGU2007-A-05046; HS2-1MO1O-006
Schulz, K.; Samaniego, L. E.; Bardossy, A.
A Generalized-Nearest-Neighbor (GNN) technique for the improved classification of remote sensing data

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-10434; HS2-1MO2O-001
Seeling, S.; Buddenbaum, H.; Schlerf, M.; Nink, S.; Sauer, T.
Effects of insufficient validation data on retrieval of land surface information and uncertainty assessment

10:45–11:00; EGU2007-A-10498; HS2-1MO2O-002
Wood, E.; Pan, M.; Sheffield, J.; Crow, W.
A new approach to validating remote sensing products at regional to large scales

11:00–11:15; EGU2007-A-11082; HS2-1MO2O-003
Boni, G.; Caparrini, F.; Castelli, F.; Delogu, F.; Entekhabi, D.; Sini, F.
Mapping of soil moisture through a land temperature assimilation scheme under different surface conditions: an application to Central Italy

11:15–11:30; EGU2007-A-02015; HS2-1MO2O-004
De Lannoy, G.; Houser, P.; Verhoest, N.; Pauwels, V.
Assimilation of soil moisture observations in the OPE\$^3\$ field with horizontal information propagation in the Community Land Model

11:30–11:45; EGU2007-A-03618; HS2-1MO2O-005
Stöckli, R.; Lu, L.; Denning, A. S.; Thornton, P. E.
Remote sensing data assimilation for a prognostic model of vegetation phenology

11:45–12:00; EGU2007-A-06843; HS2-1MO2O-006
Baroncini, F.; Castelli, F.; Caparrini, F.; Ruffo, S.
A dynamic cloud masking and filtering algorithm for MSG retrieval of land surface temperature

12:00 END OF SESSION

HS2 Remote sensing retrieval techniques and data assimilation – Posters

Convener: Verhoest, N.
Co-Convener(s): Tedesco, M., Loew, A., Wagner, W.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 15:30–17:00
Poster Area Hall A
Chairperson: N.N.

A0134; EGU2007-A-08159; HS2-1MO4P-0134
Bechini, R.; Cremonini, R.; Campana, V.; Tomassone, L.; Cassardo, C.; Terzago, S.
MSG cloud mask algorithm validation using data by MODIS Terra and Aqua satellites

A0135; EGU2007-A-08509; HS2-1MO4P-0135
Rasmussen, M. O.; Sandholt, I.; Stisen, S.
Comparison between land surface temperatures derived from MSG-1 and MSG-2

A0136; EGU2007-A-02248; HS2-1MO4P-0136
Meier, P.; Milzow, C.; Kinzelbach, W.
Recognition of flooding patterns in the Okavango Delta using ASAR images

A0137; EGU2007-A-01464; HS2-1MO4P-0137
Strobl, R.O.; Forte, F.
Stream network detection using remotely sensed data and an artificial neural network

A0138; EGU2007-A-01271; HS2-1MO4P-0138
Pilloni, S.; **Heinl, M.**; Hammerle, A.; Gianelle, D.; Vescovo, L.; Tappeiner, U.; Wohlfahrt, G.
Estimating the Plant Area Index of Mountain Grasslands from Multi spectral Reflectance

A0139; EGU2007-A-02018; HS2-1MO4P-0139
Timár, G.; Székely, B.
Anisotropic influence of leafless deciduous forests on SRTM DEM reliability in mid-latitude slopes: a case study of two Hungarian sites

A0140; EGU2007-A-06997; HS2-1MO4P-0140
Shieh, M.L.; Liu, C.C.; Shieh, C.L.
A quantitative study of the red-shift effect for turbid water dominated by suspended sediment using radiative transfer model

A0141; EGU2007-A-01281; HS2-1MO4P-0141
Conradt, T.
Temperature patterns of land use types in the Elbe River basin – Application of remote sensing data for refined hydrological modelling on the regional scale

A0142; EGU2007-A-07633; HS2-1MO4P-0142
McCallum, I.; Wagner, W.; Schmullius, C.; Shvidenko, A.; Obersteiner, M.; Nilsson, S.
Earth observation data for terrestrial Carbon flux modeling over Siberia

A0143; EGU2007-A-09815; HS2-1MO4P-0143
Gafurov, A.; Bárdossy, A.
Snow modeling using remote sensing data

A0144; EGU2007-A-03711; HS2-1MO4P-0144
Bobylev, L.P.; Zabolotskikh, E.V.; Mitnik, L.M.; Johannessen, O.M.
Neural networks-based algorithms for atmospheric water parameter retrievals from satellite passive microwave data: development and validation

A0145; EGU2007-A-06660; HS2-1MO4P-0145
Muzylev, E.L.; Uspensky, A.B.; Startseva, Z.P.; Volkova, E.V.; Kukharsky, A.V.
Using AVHRR/NOAA and MODIS/Terra information on land surface characteristics for modeling vertical water and heat fluxes from river basin area

A0146; EGU2007-A-00643; HS2-1MO4P-0146
Haguma, D.; Van Griensven, A.; Van Andel, S.J.; Anctil, F.; Price, R.
Development of hydrologic model of Kagera River basin using Remote sensing data

A0147; EGU2007-A-07982; HS2-1MO4P-0147
Carreño, F.; de Pablo, M.A.; Martín-González, F.
Assessment and potential uses of the SRTM DEM (90 m)
for geosciences: Some cases in Spain.

A0148; EGU2007-A-09631; HS2-1MO4P-0148
Camporese, M.; Paniconi, C.; Putti, M.; Salandin, P.
Ensemble Kalman filter vs. Newtonian nudging for a
coupled model of surface and subsurface flow: a comparison
of data assimilation approaches

A0149; EGU2007-A-06072; HS2-1MO4P-0149
Gellens-Meulenberghs, F.; Wagner, W.; Arboleda, A.;
Ghilain, N.; Kuenzer, C.; Hasenauer, S.
Towards assimilation of METOP-ASCAT derived superficial
Soil Moisture into a MSG-SEVIRI driven land surface
model: a first LSA-SAF – H-SAF activity.

HS3 Space observations and field experiments

Convener: Su, Z.
Co-Convener(s): Hasager, C., Schmugge, T.
Lecture Room 31
Chairperson: SU, Z.

13:30–13:45; EGU2007-A-04085; HS3-1MO3O-001
Hajnsek, I.; Bianchi, R.; Davidson, M.; Wooding, M.; The
AGRISAR 2006 Team
AgriSAR 2006 – Airborne SAR and Optics campaigns
for an improved monitoring of agricultural processes and
practices

13:45–14:00; EGU2007-A-01278; HS3-1MO3O-002
Pauwels, VRN; Timmermans, W.; Loew, A
Study of the energy budget during AGRISAR 2006

14:00–14:15; EGU2007-A-11432; HS3-1MO3O-003
Schmugge, T.; Ogawa, K.; de Rosnay, P.
Comparison of MODIS land surface emissivity at 8.6 mi-
crometers with ground measures of soil moisture in the Sahel

14:15–14:30; EGU2007-A-01339; HS3-1MO3O-004
Pegram, Geoff; Nxumalo, Ntoko; Sinclair, Scott; Vis-
chel, Theo
Validation of remote sensing of soil moisture in Southern
Africa

14:30–14:45; EGU2007-A-06985; HS3-1MO3O-005
Esposito, M.; Coppola, A.; Basile, A.; Buonanno, M.; De
Mascellis, R.; Menenti, M.; Tosca, M.
Soil water content spatial pattern estimated by thermal
inertia from air-borne sensors

14:45–15:00; EGU2007-A-03098; HS3-1MO3O-006
Santanello Jr., J.; Peters-Lidard, C.; Garcia, M.; Mocko, D.;
Tischler, M.; Moran, M.S.; Thoma, D.
Using Remotely-Sensed Estimates of Soil Moisture to Infer
Soil Texture and Hydraulic Properties across a Semi-arid
Watershed

15:00 END OF SESSION

HS3 Space observations and field experiments – Posters

Convener: Su, Z.
Co-Convener(s): Hasager, C., Schmugge, T.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 15:30–17:00
Poster Area Hall A
Chairperson: SCHMUGGE, T.

A0150; EGU2007-A-00712; HS3-1MO4P-0150
Lipiec, J.; **Siczek, A.**; Usowicz, B.
Spatial variability of moisture and temperature in relation to
soil compaction and mulching

A0151; EGU2007-A-01443; HS3-1MO4P-0151
Marzahn, P.; Krueger, K.; Ludwig, R.
Deriving surface roughness dynamics from multi-temporal
and multi-parametric airborne SAR-data

A0152; EGU2007-A-02392; HS3-1MO4P-0152
Hauteceur, O.; **Roujean, J.L.**
Validation of POLDER surface BRDF and albedo products
based on a review of other satellites, ground and climate
databases

A0153; EGU2007-A-02769; HS3-1MO4P-0153
Usowicz, B.; Lipiec, J.; Marczewski, W.; Usowicz, J. B.
Effect of the land use on the heat flux dynamics in the
ground based thermal experiments aimed for validating
SMOS observations

A0154; EGU2007-A-03759; HS3-1MO4P-0154
Teuling, A.J.; Hurkmans, R.; Merlin, O.; Panciera, R.;
Walker, J.P.
Surface soil moisture variability during NAFE'06

A0155; EGU2007-A-04203; HS3-1MO4P-0155
Sánchez, J. M.; Kustas, W. P.; Caselles, V.; Anderson, M.
A simplified two-source energy balance approach using soil
and canopy temperatures: Application to a maize crop

A0156; EGU2007-A-04275; HS3-1MO4P-0156
Martinelli, J.; Mancini, M.; Montaldo, N.
Surface temperature from remote sensing observations
and energy budget hydrological model for soil moisture
retrieving

A0157; EGU2007-A-04313; HS3-1MO4P-0157
Migliavacca, M.; Cremonese, E.; Busetto, L.; Morra di
Cella, U.; Meroni, M.; Colombo, R.
Detection of the Larix Decidua phenological cycle in the
alpine environment by using MODIS data

A0158; EGU2007-A-04922; HS3-1MO4P-0158
Mobasher, M. R.; Rezaie, Y.
On the Relative Abundance Determination of the Suspended
Sediment Composition in the Surface Waters, Using MODIS
Images.

A0159; EGU2007-A-06207; HS3-1MO4P-0159
Ma, Y.; Su, Z.; Menenti, M.; Feddes, R.A.; Zhong, L.
Combining Landsat-7 ETM data with field observations
for regional land surface heat fluxes over heterogeneous
landscape of the Tibetan Plateau

A0160; EGU2007-A-06573; HS3-1MO4P-0160
Schwank, M.; Guglielmetti, M.; Mätzler, C.; Oberdoerster, C.;
Vanderborght, J.; Flüßler, H
FOSMEX: A remote sensing forest soil moisture experiment
using microwave radiometers

A0161; EGU2007-A-07725; HS3-1MO4P-0161
Gruhier, C.; de Rosnay, P.; Richaume, P.; Kerr, Y.; Rüdi-
ger, C.; Walker, J.P.; Mouglin, E.; Ceschia, E.; Calvet, J.C.
Large scale evaluation of AMSR soil moisture products
based on ground soil moisture network measurements.

A0162; EGU2007-A-08463; HS3-1MO4P-0162
Timmermans, J.; van der Tol, C.; Verhoef, W.; Jia, L.; Su, Z
Directional radiative measurements on forest, hey and young
maize during the EAGLE2006 field campaign

A0163; EGU2007-A-09046; HS3-1MO4P-0163
Gherboudj, I.; Filion, R.; Paniconi, C.; Bernier, M.; Melis, M.; Soddu, A.
Field and basin scale analyses of ASAR imagery for soil moisture estimation in the Campidano plain, Sardinia

A0164; EGU2007-A-09648; HS3-1MO4P-0164
Fernandez, G.; Palladino, M.; D'Urso, G.; Moreno, J.
Monitoring soil water content and soil temperature simultaneously to thermal observations from airborne data within two different experiments: SEN2FLEX-2005 and AgriSAR-2006

A0165; EGU2007-A-10011; HS3-1MO4P-0165
Van der Tol, C.; Su, Z.; Gieske, A.; Timmermans, J.; Timmermans, W.; Jia, L.
Fluxes of energy, carbon dioxide and water measured over a vineyard in Barrax, Spain, during the SPARKS and SEN2FLEX campaigns

A0166; EGU2007-A-10915; HS3-1MO4P-0166
Yan, J.; Sun, D.; Li, H.; Wang, J.; Li, B.
In-site research on Hyper-concentrated Mud Transported in Pipes

A0167; EGU2007-A-11427; HS3-1MO4P-0167
Bleiweiss, M.; Bathke, D.; Bawazir, A.S.; Samani, Z.; Skaggs, R.
Comparison of North America Regional Reanalysis (NARR) Potential Evapotranspiration (ET) with climate station estimates

HS4 Water storage, level and discharge from remote sensing and geodesy (co-listed in G & GI)

Convener: Kosuth, P.
Co-Convener(s): Benveniste, J.
Lecture Room 31
Chairperson: N.N.

15:30–15:45; EGU2007-A-00899; HS4-1MO4O-001
Jacob, T.; Bayer, R.; Boudin, F.; Brunet, P.; Chery, J.; Jourde, H.; Le Moigne, N.
Geodetic monitoring of a karst aquifer in the Larzac region, South of France

15:45–16:00; EGU2007-A-04503; HS4-1MO4O-002
Sabel, D.; Bartsch, A.; Pathe, C.; Wagner, W.
Runoff-generating soil moisture patterns in subtropical regions

16:00–16:15; EGU2007-A-07620; HS4-1MO4O-003
Crétaux, J-F.; **Calmant, S.;** Romanovski, V.; Lyard, F.; Berge-Nguyen, M.; Abarca Del Rio, R.; Mammedov, R.; Cazenave, A.; Hernandez, F.
Absolute Calibration of radar altimeter over lakes

16:15–16:30; EGU2007-A-11639; HS4-1MO4O-004
Bercher, N.; Kosuth, P.; Mercier, F.; Frontera, V.
Statistical analysis of the accuracy of Satellite radar altimetry over rivers : Comparison of retracking algorithms

16:30–16:45; EGU2007-A-10787; HS4-1MO4O-005
Andreadis, K.; Lettenmaier, D.P.; Alsdorf, D.E.
Potential for estimation of river discharge through assimilation of wide swath satellite altimetry into a river hydrodynamics model

16:45–17:00; EGU2007-A-09582; HS4-1MO4O-006
Runge, H.; Suchandt, S.; Eiglsperger, T.
Parameters for River Run-Off Measurements Obtained From SAR Interferometry

17:00–17:15; EGU2007-A-08328; HS4-1MO4O-007
Stuck, J.; Güntner, A.
Interannual variations of the simulated hydro climatology in WGHM

17:15–17:30; EGU2007-A-08832; HS4-1MO4O-008
Nerem, R. S.; Chambers, D. P.; Famiglietti, J.; Leuliette, E. W.
Hydrologic Contributions to Global Mean Sea Level Change

17:30 END OF SESSION

HS8 Subsurface assessment and characterisation of flow, transport, and fate using physical, chemical, and isotopic tools (co-listed in IG)

Convener: Bloem, E.
Co-Convener(s): Elliot, T.; Elsner, M.; Penning, H.; Hofstetter, T.
Lecture Room 30 (C)
Chairperson: HOFSTETTER, T.

8:30–8:45; EGU2007-A-09917; HS8-1MO1O-001
Kampara, M.; Thullner, M.; Harms, H.; Wick, L.Y.
Influence of substrate bioavailability on the apparent stable isotope fractionation

8:45–9:00; EGU2007-A-07285; HS8-1MO1O-002
Blum, P.; Hunkeler, D.; Weede, M.; Beyer, C.; Grathwohl, P.; Morasch, B.
Quantification of biodegradation for various organic compounds using first-order, Michaelis-Menten kinetics and stable carbon isotopes

9:00–9:15; EGU2007-A-06285; HS8-1MO1O-003
Fischer, A.; Vogt, C.; Herrmann, S.; Theuerkorn, K.; Herklotz, I.; Thullner, M.; Richnow, H.-H.
Monitoring in situ benzene biodegradation in contaminated aquifers using compound-specific stable isotope analysis (CSIA)

9:15–9:30; EGU2007-A-06434; HS8-1MO1O-004
Tobler, N. B.; Hofstetter, T. B.; Schwarzenbach, R. P.
Identifying the concurrent oxidation of toluene and reduction of nitroaromatic contaminants in anoxic environments using compound-specific carbon and nitrogen isotope analysis

9:30–9:45; EGU2007-A-05794; HS8-1MO1O-005
Kuder, T.; Philp, P.; Allen, J.
Stable isotope fractionation resulting from biotic and abiotic MTBE attenuation processes

9:45–10:00; EGU2007-A-06699; HS8-1MO1O-006
Elsner, M.; Zwank, L.; Hunkeler, D.; Schwarzenbach, R.P.
Linking observable stable isotope fractionation to transformation pathways of organic pollutants

10:00 COFFEE BREAK

Chairperson: ELSNER, M.

10:30–10:45; EGU2007-A-08682; HS8-1MO2O-001
Prunier, J.; Pierret, M. C.; Chabaux, F.; Trémoilières, M.; Pelt, E.; Rihs, S.
U-Ra fractionations in surface waters : Clues from Strengbach watershed (Vosges – France)

10:45–11:00; EGU2007-A-08013; HS8-1MO2O-002
Adolph, G.; Kuells, C.; Willscheid, A.
Determination and validation of age structures as an improved measure of hydrological dynamics

11:00–11:15; EGU2007-A-01804; HS8-1MO2O-003
Kuhn, T.; Hamonts, K.; Dejonghe, W.; Peters, N.-H.; Stichler, W.; Meckenstock, R.
 Assessing biodegradation of chlorinated aliphatic hydrocarbons in a river sediment by conservative and reactive isotope tracers (2H, 18O, 13C)

11:15–11:30; EGU2007-A-08200; HS8-1MO2O-004
Abe, Y.; Aravena, R.; Hunkeler, D.
 Integration of hydraulic, hydrochemical and isotope data to evaluate the fate of chlorinated ethenes at the groundwater-surface water interface

11:30–11:45; EGU2007-A-08336; HS8-1MO2O-005
Schneider, P.; Katterfeld, C.
 Identification of hydrologic transport processes and diffuse nutrient pathways with natural and applied tracers

11:45–12:00; EGU2007-A-01238; HS8-1MO2O-006
 Cucchi, F.; Franceschini, G.; Piani, R.; **Zini, L.**
 Hydrochemistry of groundwater samples from phreatic and multilayer aquifers of the Friuli Venezia Giulia plain, north-east Italy

12:00 LUNCH BREAK

Chairperson: BLOEM, E.

13:30–13:45; EGU2007-A-02564; HS8-1MO3O-001
Mertens, J.; Degryse, F.; Amery, F.; Cheyns, K.; De Troyer, I.; Feyen, J.; Smolders, E.
 Solute flux and concentration monitoring in the vadose zone using Passive Capillary Wick Samplers (PCAPS)

13:45–14:00; EGU2007-A-08357; HS8-1MO3O-002
Bloem, E.; Hermon, K. M.; Stagnitti, F.; de Rooij, G. H.
 A solute leaching experiment to measure the spatio-temporal distribution of a bromide pulse and a chloride block irrigation on a loamy vineyard soil

14:00–14:15; EGU2007-A-08790; HS8-1MO3O-003
Mohrlok, U.; Heinrich, K.; Kirubakaran, S.; Eldho, T.I.
 Tracer tests in vertical groundwater circulation flow fields

14:15–14:30; EGU2007-A-01295; HS8-1MO3O-004
Goody, D.C.; Lapworth, D.J.; Harrison, I.; Kim, A.W.; Mathias, S.A.
 Characterising pesticide residence and transport processes through dual porosity aquifers

14:30–14:45; EGU2007-A-09734; HS8-1MO3O-005
Ghergut, I.; Sauter, M.; Behrens, H.; Licha, T.; Rose, P.; Orzol, J.; Lodemann, M.
 Comparative evaluation of tracer tests in deep crystalline and sedimentary, candidate geothermal reservoirs in Germany

14:45–15:00; EGU2007-A-09203; HS8-1MO3O-006
Rousseau-Gueutin, P.; Gonçalves, J.; Cruchaudet, M.; Altmann, S.; Violette, S.
 Estimation of electrochemistry/hydraulic coupling parameters in clay medium

15:00 END OF SESSION

HS8 Subsurface assessment and characterisation of flow, transport, and fate using physical, chemical, and isotopic tools (co-listed in IG) – Posters

Convener: Bloem, E.
 Co-Convener(s): Elliot, T.; Elsner, M.; Penning, H.; Hofstetter, T.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 15:30–17:00
 Poster Area Hall A
 Chairperson: PENNING, H.

A0168; EGU2007-A-04869; HS8-1MO4P-0168
 Häusler, H.; Payer, T.; Scheibz, J.; Rank, D.; Maracek, K.
 The Zicksee paradox revealed? Contradictory results of the water balance of a shallow lake in the Seewinkel region (Northern Burgenland, Austria)

A0169; EGU2007-A-07471; HS8-1MO4P-0169
Niedermayr, A.; Neubauer, E.; Dietzel, M.; Leis, A.; Köhler, S.; Poltnig, W.; Benischke, R.
 Proxies for the Evolution of Acidulous Iron-rich Springs in Carinthia (Austria)

A0170; EGU2007-A-03186; HS8-1MO4P-0170
Jeong, C.H.; Nagao, K.; Kim, K.H.; Sumino, H.; Choi, H.K.; Park, J.S.
 Geochemical evolution and origin of noble gases of hot spring waters of various types from the eastern area of the Korea

A0171; EGU2007-A-01239; HS8-1MO4P-0171
 Cucchi, F.; **Treu, F.**; Zini, L.
 Using stable isotope analyses ($\delta^{18}\text{O}$) and geochemistry monitoring of mountain springs (Friuli Venezia Giulia, Northern Italy)

A0172; EGU2007-A-01236; HS8-1MO4P-0172
 Cucchi, F.; Flora, O.; **Franceschini, G.**; Genoni, L.; Stenni, B.; Zini, L.
 Using stable isotope analyses ($\delta^{18}\text{O}$) to characterise the regional hydrology of the Friuli Venezia Giulia plain, north-east Italy

A0173; EGU2007-A-06727; HS8-1MO4P-0173
Loisy, C.; Franceschi, M.; Cerepi, A.
 High characterization of water-air flow transport in the vadose zone of geoclastic carbonate formation from Radon-222

A0174; EGU2007-A-10991; HS8-1MO4P-0174
Martinez, F.; Cortes, A.; Ramirez, A.; Hernandez, H.
 Determining hidrogeochemical facies with multivariate analysis in Aguascalientes, Mexico

A0175; EGU2007-A-08742; HS8-1MO4P-0175
Sawyer, F.E.; Thomas, J. M.; Earman, S.; Carroll, R. W.
 Coupled Mixing-Cell and Mass Balance Flow Path Models of the White River Flow System, Nevada, USA

A0176; EGU2007-A-10452; HS8-1MO4P-0176
 Hartenbach, A.; **Hofstetter, T.B.**; Berg, M.; Bolotin, J.; Schwarzenbach, R.P.
 Using nitrogen Isotope fractionation to assess abiotic reduction of nitroaromatic compounds

A0177; EGU2007-A-02825; HS8-1MO4P-0177
von Rohden, C.; Kreuzer, A.; Aeschbach-Hertig, W.; Chen, Z.
 Dating young Groundwater in the North China Plain

A0178; EGU2007-A-11165; HS8-1MO4P-0178
Billy, B.; Kao, K.; Birgand, B.; Tournébiz, T.; Sebilo, S.
 Nitrate dynamics in a sub-surface artificially drained watershed

A0179; EGU2007-A-01715; HS8-1MO4P-0179
 Ruopp, K.; Postigo Rebollo, C.P.; **Barth, J.A.C.**; Grathwohl, P.
 Water Stable Isotope Tracers in the Blautopf Catchment (southern Germany) linked to a Mass Balance of Polyaromatic Hydrocarbons

A0180; EGU2007-A-03029; HS8-1MO4P-0180
Castorina, F.; Masi, U.
 Sr-Nd isotopic signatures in soils from the Muravera area (SE Sardinia, Italy)

A0181; EGU2007-A-02831; HS8-1MO4P-0181
Klaus, J. S.; Beer, W. W.; Hansen, B. T.
 $^{87}\text{Sr}/^{86}\text{Sr}$, ^{18}O , ^2H and ^3H as tracers for genesis and saturation history of infiltrating groundwater in evaporitic deposits of the German Zechstein Basin

A0182; EGU2007-A-08943; HS8-1MO4P-0182
Leis, A.; Wiegand, B. A.; Koehler, S. J.; Reichl, P.; Harum, T.
 Assessment of groundwater origin and discharge in crystalline basement using hydrochemistry and strontium isotope ratios.

A0183; EGU2007-A-07028; HS8-1MO4P-0183
Wienhöfer, J.; Lindenmaier, F.; Ihringer, J.; Zehe, E.
 Understanding hydrological triggers of a large moving hillslope

A0184; EGU2007-A-08516; HS8-1MO4P-0184
Pera, S
 Hydrogeology and geochemical characteristics of groundwater in a porous aquifer connected with two karst systems, in Southern Switzerland

A0185; EGU2007-A-06697; HS8-1MO4P-0185
Loisy, C.; Franceschi, M.; Cerepi, A.; Mao, L.S.
 Geochemistry and hydrogeochemical modeling of the unsaturated zone of geoclastic carbonate formation

A0186; EGU2007-A-06747; HS8-1MO4P-0186
Kocarek, M.; Kodesova, R.; Kozak, J.; Zvonek, S.
 Field and numerical study of chlorotoluron behaviour in Haplic Chernozem

A0187; EGU2007-A-09824; HS8-1MO4P-0187
Nehls, T.; Hartstock, S.; Stoffregen, H.; Wessolek, G.
 Stability of preferential flow paths in paved urban soils

A0188; EGU2007-A-08676; HS8-1MO4P-0188
Kalbe, U.; Berger, W.; Würck, S.; Eckhart, J.; Kolepki, M.; Christoph, G.; Rübner, K.
 Investigations on the suitability of suction cups for sampling of soil water with organic contaminants

A0189; EGU2007-A-08437; HS8-1MO4P-0189
Bloem, E.; Hogervorst, F.A.N.; de Rooij, G. H.
 Using field and model data of a spatio-temporal solute leaching experiment to compare the suction plates of two variable-suction multi-compartment samplers

A0190; EGU2007-A-08890; HS8-1MO4P-0190
de Rooij, G.H.; Hogervorst, F.A.N.; Bloem, E.; Stagnitti, F.; Cirpka, O.A.; Vanderborght, J.
 Unsaturated Water Flow and Solute Transport in Field Soils: advances in measurements and data analysis

A0191; EGU2007-A-10321; HS8-1MO4P-0191
Hogervorst, F.A.N.; Rooij de, G.H.; Bierkens, M.F.P.
 Proportional weighting of phreatic level measurements to increase model optimization efficiency.

A0192; EGU2007-A-07261; HS8-1MO4P-0192
Banerjee, D.; **Heggy, E.**; Khan, S.D.
 Dielectric and GPR Studies of Edwards Formation Carbonates in Central Texas

HS20 Technological potential for assessing soil erosion and sediment transport in ungauged river basins

Convener: Bathurst, J.
 Co-Convener(s): Rickenmann, D., van Oevelen, P.
 Lecture Room 31
 Chairperson: N.N.

8:30–8:45; EGU2007-A-04522; HS20-1MO1O-001
de Vente, J.; Poesen, J.; Verstraeten, G.; Vanrompaey, A.; Govers, G.
 Spatially Distributed Modelling of Soil Erosion and Sediment Yield at Regional Scales in Spain.

8:45–9:00; EGU2007-A-10240; HS20-1MO1O-002
Bathurst, J. C.; van Oevelen, P.
 Remote sensing and the global evaluation of erosion and sediment transport responses

9:00–9:15; EGU2007-A-03521; HS20-1MO1O-003
Seitz, H.; Habersack, H.
 Bed-load Measuring System for large Alpine Gravel Bed Rivers (solicited)

9:15–9:30; EGU2007-A-04468; HS20-1MO1O-004
Thorne, P
 Measuring near bed sediment transport processes using sound (solicited)

9:30–9:45; EGU2007-A-01461; HS20-1MO1O-005
Khanchoul, K.; Jansson, J.
 Suspended sediment yield estimation during storm events in the Mellah catchment, northeast Algeria

9:45–10:00; EGU2007-A-05838; HS20-1MO1O-006
Owens, P.N.
 Some thoughts of the European Sediment Network (SedNet) on sediment management issues in trans-boundary European river basins

10:00 END OF SESSION

HS20 Technological potential for assessing soil erosion and sediment transport in ungauged river basins – Posters

Convener: Bathurst, J.
 Co-Convener(s): Rickenmann, D., van Oevelen, P.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 15:30–17:00
 Poster Area Hall A
 Chairperson: N.N.

A0193; EGU2007-A-04534; HS20-1MO4P-0193
de Vente, J.; Poesen, J.; Arabkhedri, M.; Verstraeten, G.
 The Sediment Delivery Problem Revisited.

A0194; EGU2007-A-07418; HS20-1MO4P-0194
Pavanelli, D.; Bigi, A.; Rigotti, M.
 Predicting suspended sediment yield in an ungauged basin transferring information from a nearby monitored catchment via a linear approach

A0195; EGU2007-A-00849; HS20-1MO4P-0195
Bigi, A.; Montanari, A.
 A spatially distributed model for hillslope contribution to suspended sediment transport in alluvial channels

A0196; EGU2007-A-01678; HS20-1MO4P-0196
Wang, G.J.
 Modeling river sediment concentrations during hydrologic events in the poorly gauged basin

A0197; EGU2007-A-05989; HS20-1MO4P-0197

Sharma, U.C.

Modeling assessment of catchment sediments from ungauged river basins through fluvial system

A0198; EGU2007-A-04856; HS20-1MO4P-0198

Summer, W.; Weidl, A.

Technical aspects on sediment monitoring crossing international borders

A0199; EGU2007-A-08250; HS20-1MO4P-0199

Gallart, F.; Catari, G.; Soler, M.; Latron, J.

Analysing suspended sediment load measurement errors in a small mountain Mediterranean catchment in relationship with the length of the records.

A0200; EGU2007-A-08654; HS20-1MO4P-0200

Mathys, N.; Esteves, M.; Gresillon, J.M.

The seasonal cycle of deposition and scouring in the channel network as a key process for erosion response in badlands catchments, (Draix, Alpes-de-Haute-Provence, France)

A0201; EGU2007-A-10136; HS20-1MO4P-0201

Mao, L.; Cavalli, M.; Comiti, F.; **Marchi, L.;** Lenzi, M. A.; Arattano, M.

Long-term monitoring and long profile analysis in two small Alpine catchments with different sediment transport processes.

A0202; EGU2007-A-02604; HS20-1MO4P-0202

Chiari, M.; Rickenmann, D.

Application of a sediment transport model for steep slopes and comparison with LiDAR data in an ungauged catchment

A0203; EGU2007-A-08715; HS20-1MO4P-0203

Liébault, F.; Frey, P.; Recking, A.

Predicting bedload transport of mountain streams: the case of the Esconavette Torrent (Southern French Prealps)

A0204; EGU2007-A-04986; HS20-1MO4P-0204

Esmann, R.T.; **Bathurst, J.;** Summer, W.

Bed load sampling techniques for gravel-bed channels

HS24 Sediment tracing and risk assessment for sediment management

Convener: Petticrew, E.

Co-Convener(s): Westrich, B., Owens, P.

Lecture Room 31

Chairperson: PETTICREW E.

10:30–10:45; EGU2007-A-10491; HS24-1MO2O-001

Lawler, D.M.; Foster, I.D.L.; Petts, G.E.; Dixon, H.; Barker, D.; Harper, S

Fine sediment storm-event dynamics in urban river channels: challenging the first-flush model

10:45–11:00; EGU2007-A-09101; HS24-1MO2O-002

Zebracki, M.; Alary, C.; Bonte, P

Sediment contribution of metallic contaminants in respect to water quality in urban watercourses

11:00–11:15; EGU2007-A-09700; HS24-1MO2O-003

Williams, N.D.; Ofenböck, M.; Petticrew, E.L.; Summer, W. Representative characterization of riverine composite suspended sediments

11:15–11:30; EGU2007-A-00782; HS24-1MO2O-004

Pryce, O. T.; Quinton, J.; Heathwaite, L

Development of Environmental Tracers for Phosphorus and Sediment

11:30–11:45; EGU2007-A-04843; HS24-1MO2O-005

Rákóczi, L.

Tracers in the laboratory and field investigation of bed-load movement

11:45–12:00; EGU2007-A-02728; HS24-1MO2O-006

Beylich, A.A.

The quantitative importance of seasonal snowmelt and rainfall generated peak runoff for annual fluvial sediment budgets in four catchments in Swedish Lapland, Finnish Lapland and Iceland

12:00 END OF SESSION

HS24 Sediment tracing and risk assessment for sediment management – Posters

Convener: Petticrew, E.

Co-Convener(s): Westrich, B., Owens, P.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 15:30–17:00

Poster Area Hall A

Chairperson: N.N.

A0205; EGU2007-A-01856; HS24-1MO4P-0205

Gusarov, A.V.

Changeability of intra-annual unevenness of runoff, erosion and suspended sediment yield in river basins of East Europe

A0206; EGU2007-A-04103; HS24-1MO4P-0206

Hutchinson, S.M.; Rothwell, J.J

Mobilisation of sediment-associated Pb from historical smelting and milling sites on the River Sheaf, Sheffield, UK

A0207; EGU2007-A-03971; HS24-1MO4P-0207

Young, E.A.; Dawson, E.J.; Macklin, M.G.; Zhao, Y.

Mobilisation and deposition of metal contaminated sediments in the River Swale, North Yorkshire, UK.

A0208; EGU2007-A-04699; HS24-1MO4P-0208

Yang, Y.; Werth, C. J.; Van Metre, P. C.; Mahler, B. J.; Wilson, J. T.

The Role of Carbonaceous Materials in the Fate of Polycyclic Aromatic Hydrocarbons in a Small Urban Watershed

A0209; EGU2007-A-05770; HS24-1MO4P-0209

Amos, K.J.; **Croke, J.C.;** Timmers, H.; Thompson, C.T.

Investigating floodplain deposition in a large semi-arid Australian river using Caesium-137

A0210; EGU2007-A-05843; HS24-1MO4P-0210

Owens, P.N.; Petticrew, E.L.; Blake, W.H.; Giles, T.R.; Moore, R.D.; Bol, R.

Tracing the sources of fine-grained sediment following a wildfire in British Columbia, Canada

A0211; EGU2007-A-07173; HS24-1MO4P-0211

Teodor, S.

The solid transport during the flash floods of 2005 and 2006 in the Romanian sector of the Danube

A0212; EGU2007-A-08289; HS24-1MO4P-0212

Kralik, M.; Haslinger, E.; **Sager, M.**

The elemental composition of sediments of the harbour basin of Zadar (Croatia) – geological sources and contaminations

A0213; EGU2007-A-08902; HS24-1MO4P-0213

Kralik, M.; Haslinger, E.; Picer, M.; Picer, N.; Ottner, F.; Sager, M.

PCB-anomalies in the sediments of the harbour basin of Zadar (Croatia) as consequence of war action and /or industrial contamination

A0214; EGU2007-A-10316; HS24-1MO4P-0214

Rex, J.F.; Petticrew, E.L.; Williams, N.D.

Salmon organic matter and fine sediment flocculation: Implications for nutrient and sediment tracing

A0215; EGU2007-A-08593; HS24-1MO4P-0215
Chen, S.-C.; Lai, Y.-C.; Wang, C.-L.
Evaluation model for watershed sediment management of the Shihmen reservoir in Taiwan

A0216; EGU2007-A-11240; HS24-1MO4P-0216
Garcia Bravo, A.; Marcic, C.; Ancey, L.; Loizeau, J.-L.; Ungureanu, G.; Dominik, J.
Historical record of high mercury contamination in the Babeni reservoir (Olt River, Romania)

A0217; EGU2007-A-06429; HS24-1MO4P-0217
Van der Perk, M.; Klutman, W.A.J.; Li, C.; Owens, P.N.; Deeks, L.K.; Haygarth, P.M.
The effect of land use on phosphorus content of streambed sediment in the Taw catchment, UK

HS33 Monitoring network design and new instrumentation in hydrology

Convener: Borga, M.
Co-Convener(s): Grathwohl, P.
Lecture Room 28 (B)
Chairperson: BALABANIS P.

13:30–13:45; EGU2007-A-10562; HS33-1MO3O-001
Voltz, M.; Albergel, J.; THE OMERE TEAM
OMERE a long term hydrological research observatory about anthropogenic and climate change impacts on water and matter flow in Mediterranean rural catchments

13:45–14:00; EGU2007-A-09231; HS33-1MO3O-002
Hooper, R.; WATERS Network Design Team
WATERS Network: An Environmental Observatory Initiative of the U.S. National Science Foundation Engineering and Geosciences Directorates

14:00–14:15; EGU2007-A-09001; HS33-1MO3O-003
Yaoming, M.; Tangdong, Y.; Zhong, L.
The observational study of atmosphere-land interaction over heterogeneous landscape of the Tibetan Plateau area. An introduction of Tibetan Plateau Monitoring and Research Platform (MORP)

14:15–14:30; EGU2007-A-09793; HS33-1MO3O-004
Norbiato, D.; Borga, M.
HYDRATE: Development of an observation strategy to mitigate flash flood forecasting uncertainty

14:30–14:45; EGU2007-A-06836; HS33-1MO3O-005
Alfonso, L.; Lobbrecht, A.
Maximising information content from monitoring networks for optimal performance of water systems

14:45–15:00; EGU2007-A-05229; HS33-1MO3O-006
van Oevelen, P.; Viterbo, P.; Hahne, A.; Berger, M.; Jackson, T.
SMOS Contribution to a Global In-Situ Soil Moisture Network

15:00 COFFEE BREAK

Chairperson: HOOPER R.

15:30–15:45; EGU2007-A-09510; HS33-1MO4O-001
Smith, P.; Hughes, D.; Beven, K.; Coulson, G.; Blair, G.
On the use of Adaptive Grid-Enabled Wireless Sensor Networks in data collection.

15:45–16:00; EGU2007-A-01916; HS33-1MO4O-002
Bogena, H.; Huisman, J.A.; Oberdörster, C.; Vereecken, H.
Evaluation of a low-cost water content sensor for wireless network applications

16:00–16:15; EGU2007-A-02145; HS33-1MO4O-003
Brouyère, S.; Batlle Aguilar, J.; Goderniaux, P.; Dassargues, A.
The Finite Volume Point Dilution Method: A tracer technique for monitoring transient Darcy fluxes

16:15–16:30; EGU2007-A-07707; HS33-1MO4O-004
Graeff, T.; Bauer, A.; Morgner, M.; Reusser, D.; Bronstert, A.; Zehe, E.
Soil moisture pattern analysis in a headwater-catchment with Spatial-TDR technology

16:30–16:45; EGU2007-A-10281; HS33-1MO4O-005
Velasco-Forero, C.; Sánchez-Diezma, R.; Andreatta, A.; Velasco, E.; Sempere-Torres, D.
Improvements in the Catalan rain gauge network using a multi-criteria decision analysis

16:45–17:00; EGU2007-A-07915; HS33-1MO4O-006
Baborowski, M.; von Tümpling, W.
Transport of suspended particulate matter during flood events: The importance of the monitoring strategy

17:00 END OF SESSION

HS49 Dryland hydrology

Convener: Kirkby, M.
Co-Convener(s): Gallart, F., Sivapalan, M.
Lecture Room 30 (C)
Chairperson: N.N.

15:30–15:45; EGU2007-A-07208; HS49-1MO4O-001
Hearman, A. J.; Lehmann, P.; **Hinz, C.**
Modelling runoff connectivity for semi-arid hillslopes using percolation theory: The sensitivity of different vegetation patterns to changes in total vegetation cover

15:45–16:00; EGU2007-A-03508; HS49-1MO4O-002
Brazier, RE.; Parsons, AJ; Wainwright, J; Powell, DM; Schlesinger, WH
Upscaling understanding of nitrogen dynamics associated with overland flow in a semi-arid environment

16:00–16:15; EGU2007-A-05452; HS49-1MO4O-003
Medici, C.; Butturini, A.; Sabater, F.; Vélez, I.; Francés, F.
Modelling the hydrological response of a small mediterranean forested catchment: exploring the potential influence of the riparian-stream connection

16:15–16:30; EGU2007-A-05489; HS49-1MO4O-004
Lange, J.; Schütz, T.; Gunkel, A.; Grodek, T.; Steinmann, A.; Menzel, L.
Representing dryland runoff generation processes in hydrological models: experiences from a small mediterranean catchment.

16:30–16:45; EGU2007-A-08603; HS49-1MO4O-005
Llorens, P.; Gallart, F.; Latron, J.; Poyatos, R.; Rubio, C.; García-Pintado, J.; Muzyllo, A.
Improving the water balance simulation of a mediterranean catchment using TOPBAL, a modified version of TOP-MODEL.

16:45–17:00; EGU2007-A-00794; HS49-1MO4O-006
Dagès, C.; Voltz, M.; Bsaibes, A.; Prévot, L.; Huttel, O.; Garnier, F.; Louchart, X.; Negro, S.
Diffuse versus concentrated groundwater recharge during flood events at the scale of a Mediterranean catchment.

17:00 END OF SESSION

Magnetism, Palaeomagnetism, Rock Physics & Geomaterials

MPRG03 Paleomagnetism in orogenic systems (co-listed in TS)

Convener: besse, j.
Co-Convener(s): Dinares-Turell, J.
Lecture Room 34
Chairperson: N.N.

13:30–13:45; EGU2007-A-00958; MPRG03-1MO3O-001
Rodriguez-Pintó, A.; Pueyo, E.L.; Barnolas, A.; Pocoví, A.; Samsó, J.M.; Villalain, J.J.; Mochales, T.; Gil-Peña, I.
Magnetostratigraphy of Eocene syntectonic sediments in the Balze anticline (southern Pyrenees): laying the foundations for 3D & 4D reconstructions.

13:45–14:00; EGU2007-A-04408; MPRG03-1MO3O-002
Gilder, S.; Chen, Y.; Charreau, J.
Magnetostratigraphy and rock magnetism of continental sediments from central Asia: insights into tectonic exhumation and erosion (solicited)

14:00–14:15; EGU2007-A-00638; MPRG03-1MO3O-003
Saleh, A.
Paleomagnetic study of Egyptian crystalline rocks to better understand the geologic evolution of Egypt

14:15–14:30; EGU2007-A-08118; MPRG03-1MO3O-004
Roperch, P.; Arriagada, C.
Oroclinal bending and mountain uplift in the Central Andes (solicited)

14:30–14:45; EGU2007-A-04118; MPRG03-1MO3O-005
Márton, E.; Rauch-Wlodarska, M.; Krejčí, O.; Tokarski, A.K.; Ferencz, E.; Bubík, M.
The role of “en bloc” rotations and oroclinal bending in shaping the Western Outer Carpathians based on paleomagnetic and magnetic anisotropy observations

14:45–15:00; EGU2007-A-05613; MPRG03-1MO3O-006
Panaiotu, C.G.; Panaiotu, C.E.; Rosu, E.
Tectonic implications of the Miocene rotations of the Apuseni Mountains (Romania)

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-07874; MPRG03-1MO4O-001
Satolli, S.; Besse, J.; Calamita, F.
Paleomagnetic analysis of Aptian-Albian (125-100 Ma) sections from Northern Apennines (Italy): apparent polar wander path of Adria and its consequences.

15:45–16:00; EGU2007-A-08249; MPRG03-1MO4O-002
Huber, B.; Weber, J.; **Bachtadse, V.**; Muttoni, G.; Ronchi, A.; Durand, M.
Palaeomagnetism of Permian and Triassic sequences from the Toulon-Cuers Basin, France

16:00–16:15; EGU2007-A-02434; MPRG03-1MO4O-003
Van der Voo, R.; Bazhenov, M.L.; Levashova, N.M.; Abrajewitch, A.
Middle to late Paleozoic rotations in Kazakhstan's strongly curved magmatic belts

16:15–16:30; EGU2007-A-05477; MPRG03-1MO4O-004
Tatar, O.; Piper, J.D.A.; Gürsoy, H.; Koçbulut, F.; Mesci, B.L.; Polat, A.; Akpýnar, Z.
Paleomagnetic analysis of crustal deformation in the Anatolian accretionary collage and its neotectonic significance in the evolution of the Turkish sector of the eastern Mediterranean region

16:30–16:45; EGU2007-A-09437; MPRG03-1MO4O-005
Hankard, F.; Cogné, J.-P.; Kravchinsky, V.; Gilder, S.; Halim, N.
Decoupling between Europe and Siberia since the Cretaceous: Evidence from paleomagnetism and geochronology of Meso-Cenozoic effusive formations from Siberia and Mongolia

16:45–17:00; EGU2007-A-09872; MPRG03-1MO4O-006
Pueyo, E. L.
Diachronous rotational movement along the Southwestern Pyrenean thrust front

17:00 END OF SESSION

MPRG03 Paleomagnetism in orogenic systems (co-listed in TS) – Posters

Convener: besse, j.
Co-Convener(s): Dinares-Turell, J.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 08:30–10:00
Poster Area Hall A
Chairperson: N.N.

A0218; EGU2007-A-00346; MPRG03-1MO1P-0218
Mochales, T.; Pueyo, E.L.; Casas, A.M.; Barnolas, A.; Villalain, J.J.; Rodríguez-Pintó, A.; Gil-Peña, I.
Magnetostratigraphic constraints on the kinematics of the Boltaña anticline (Southern Pyrenees).

A0219; EGU2007-A-00414; MPRG03-1MO1P-0219
Derder, M.E.M.; Henry, B.; Bayou, B.; Djellit, H.; Amenna, M.; Guemmache, M.A.; Hemmi, A.
Preliminary results from paleomagnetic study of the revisited Hassi Bachir formation, central Sahara (Algeria)

A0220; EGU2007-A-01118; MPRG03-1MO1P-0220
Ubangoh, R.U.; Ambejoh, L.E.; Takow, J.A.; Mafany, G.T.
A New Apparent Polar Wander Path for Africa for the last 100 Ma: Implications for the Origin of the Cameroon Volcanic Line and the Progressive Desertification affecting the Continent.

A0221; EGU2007-A-02068; MPRG03-1MO1P-0221
Abrajewitch, A.; Van der Voo, R.; Levashova, N.M.; Bazhenov, M.L.
Paleomagnetism of the mid-Devonian Kurgasholok Formation, Southern Kazakhstan: Constraints on the Devonian paleogeography and late orogenic rotations of the Kazakhstan volcanic arc.

A0222; EGU2007-A-04370; MPRG03-1MO1P-0222
Márton, E.; Cosovic, V.; Moro, A.; Zampieri, D.
Reference apparent polar wander curve for Adria from direct measurement on late Jurassic–Cretaceous sediments in autochthonous position

A0223; EGU2007-A-05449; MPRG03-1MO1P-0223
Cifelli, F.; Mattei, M.; Porreca, M.
Paleomagnetic results from the Rif Chain (Morocco): new constraints for the post-Miocene rotations in the Gibraltar Arc

A0224; EGU2007-A-09555; MPRG03-1MO1P-0224
Vargas, G.; **Geraldes, M.C.**; Loewy, S.L.; Matos, R.; Teixeira, W.
U-Pb conventional zircon age of Mesoproterozoic granitic magmatism of Bolivian Precambrian: implications on paleomagnetic reconstructions and geologic evolution of the SW part of the Amazonian craton

A0225; EGU2007-A-10126; MPRG03-1MO1P-0225
Wellmann, J.F.; Schill, E.; Dunkl, I.; Appel, E.
 Kinematic analysis of tectonic processes deduced from thermopaleomagnetic records

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 10:30–12:00

MPRG Poster Area
 Chairperson: N.N.

MPRG15 The role of fluids in faults and fracture zones - mechanical aspects

Convener: Baud, P.
 Co-Convener(s): Vinciguerra, S., Stanchits, S.
 Lecture Room 34
 Chairperson: STANCHITS, S.

8:30–9:00; EGU2007-A-02374; MPRG15-1MO1O-001

Shapiro, S. A.

Fluid induced microseismicity: from pore pressure diffusion to hydraulic fracturing. (solicited)

9:00–9:15; EGU2007-A-04044; MPRG15-1MO1O-002

Zhu, W.

Faulting related initiation and growth of compaction localization in porous sedimentary rocks (solicited)

9:15–9:30; EGU2007-A-08301; MPRG15-1MO1O-003

Main, I.G.; Li, L.; Heffer, K.J.

Hydraulic imaging of faults and fractures using a predictive statistical reservoir model

9:30–9:45; EGU2007-A-11282; MPRG15-1MO1O-004

de Ronde, A.A.; Dobson, D.P.; **Meredith, P.G.;** Heidebach, F.; Boon, S.

Ultra high pressure acoustic emission monitoring of the olivine to wadsleyite transition and its application to deep focus earthquakes (solicited)

9:45–10:00; EGU2007-A-01570; MPRG15-1MO1O-005

Rudnicki, J. W.

Alteration of effective normal stress during dynamic rupture propagation due to heterogeneity of poroelastic properties near the slip plane (solicited)

10:00 END OF SESSION

MPRG15 The role of fluids in faults and fracture zones - mechanical aspects – Posters

Convener: Baud, P.
 Co-Convener(s): Vinciguerra, S., Stanchits, S.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 13:30–15:00
 Poster Area Hall A
 Chairperson: VINCIGUERRA, S.

A0226; EGU2007-A-01545; MPRG15-1MO3P-0226

Nasseri, M.H.B; **Schubnel, A.;** Young, R.P.

Linking transport, elastic and mechanical properties: an experimental investigation in thermally cracked Westerly granite

A0227; EGU2007-A-01756; MPRG15-1MO3P-0227

Townend, E.; Thompson, B. D.; Benson, P. M.; Meredith, P. G.; Baud, P.; Young, R. P.

Spatio-temporal seismicity patterns associated with anisotropic propagation of discrete compaction bands in Diemelstadt sandstone (solicited)

A0228; EGU2007-A-02037; MPRG15-1MO3P-0228
 Zhu, W.; **Vinciguerra, S.;** Baud, P.; Wong, T.-f.; Cavallo, A.
 Dilatancy and failure in basalt from Mt. Etna under triaxial compression

A0229; EGU2007-A-03346; MPRG15-1MO3P-0229

Sarout, J.; Guéguen, Y.

Shales physical properties and anisotropy: triaxial experiments and micromechanical modeling (solicited)

A0230; EGU2007-A-04134; MPRG15-1MO3P-0230

Nüchter, J.-A.; Stöckhert, B.

Coupled stress and pore fluid pressure changes in the middle crust – the vein record of coseismic loading and postseismic stress relaxation (solicited)

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 15:30–17:00

Poster Area Hall A
 Chairperson: BAUD, P.

A0231; EGU2007-A-05018; MPRG15-1MO4P-0231

Niemeijer, A.R.; Marone, C.; Elsworth, D.

Permeability Evolution in Granular Aggregates: Preliminary Results from Compaction and Shear Experiments (solicited)

A0232; EGU2007-A-07140; MPRG15-1MO4P-0232

Stanchits, S.; Fortin, J.; Gueguen, Y.; Dresen, G.

Influence of loading rate on initiation and propagation of compaction bands in Bentheim sandstone (solicited)

A0233; EGU2007-A-07646; MPRG15-1MO4P-0233

Yarushina, V.M.; Podladchikov, Yu. Yu

Micromechanical modeling of non-hydrostatic compaction and decompaction (solicited)

A0234; EGU2007-A-07926; MPRG15-1MO4P-0234

Guerra, I.; Burkhard, M.; Mancktelow, N.; Kalt, A.

Mineralization related to possible deep penetration of meteoric waters in late Alpine brittle faults developed during exhumation

A0235; EGU2007-A-11279; MPRG15-1MO4P-0235

Louis, L.; Baud, P.; Wong, T.-f.

Mechanical anisotropy of the Rothbach sandstone

MPRG16 The role of fluids in faults and fracture zones - transport aspects

Convener: Schubnel, A.
 Co-Convener(s): Fortin, J., Benson, P.
 Lecture Room 34
 Chairperson: N.N.

10:30–10:45; EGU2007-A-08294; MPRG16-1MO2O-001

Faulkner, D.; Mitchell, T.; Healy, D.; Heap, M.

Slip on 'weak' faults by the rotation of regional stress in the fracture damage zone (solicited)

10:45–11:00; EGU2007-A-06869; MPRG16-1MO2O-002

Miller, S.A.

Triggering of Landers aftershocks from Hector Mine earthquake due to Overpressured Fluids (solicited)

11:00–11:15; EGU2007-A-07841; MPRG16-1MO2O-003

Pacchiani, F.; Lyon-Caen, H.

Earthquake migration within a normal fault and implications on rock permeability

11:15–11:30; EGU2007-A-07688; MPRG16-1MO2O-004

Wibberley, C

Fault zone permeabilities over geological timescales: constraints from sedimentary basins (solicited)

11:30–11:45; EGU2007-A-05360; MPRG16-1MO2O-005
Doan, M.-L.; Brodsky, E.E.; Agnew, D.C.
 Permeability enhancement by seismic waves : the importance of local heterogeneities

11:45–12:00; EGU2007-A-01585; MPRG16-1MO2O-006
David, C.; Louis, L.; Mengus, J.M.
 Influence of heterogeneity, anisotropy and induced damage on fluid flow in Bentheim sandstone

12:00 END OF SESSION

MPRG16 The role of fluids in faults and fracture zones - transport aspects – Posters

Convener: Schubnel, A.
 Co-Convener(s): Fortin, J., Benson, P.
 Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 13:30–15:00
 Poster Area Hall A
 Chairperson: N.N.

A0236; EGU2007-A-00927; MPRG16-1MO3P-0236
Brantut, N.; Schubnel, A.; Brunet, F.; Leroy, Y.; Shimamoto, T.
 High velocity frictional properties of pure kaolinite and natural kaolinite-bearing fault gouges

A0237; EGU2007-A-01457; MPRG16-1MO3P-0237
Dong, J.J.; Hsu, J.Y.; Shimamoto, T.; Hung, J.H.; Yeh, E.C.; Wu, Y.H.
 Effective confining pressure dependency for fluid flow properties of young sedimentary rocks from TCDP Hole-A

A0238; EGU2007-A-08584; MPRG16-1MO3P-0238
Gland, N.; Dautriat, J.; Dimanov, A.
 Stress dependant permeabilities of sandstones: anisotropic response and end effects

A0239; EGU2007-A-10336; MPRG16-1MO3P-0239
Moerz, T.; Kreiter, S.; Karlik, E. A.; Kopf, A.
 Experimental initiation of fluid venting structures in unconsolidated granular and cohesive sediments

A0240; EGU2007-A-05500; MPRG16-1MO3P-0240
Telenga, K.; Stöckhert, B.
 Alteration halos along tensile cracks in natural rocks - fluid infiltration into the permeable damage zone

A0241; EGU2007-A-01540; MPRG16-1MO3P-0241
Schubnel, A.; Thompson, B.D.; Fortin, J.; Guéguen, Y.; Young, R.P.
 Fluid-induced rupture of a fault gouge analogue in the laboratory

A0242; EGU2007-A-02025; MPRG16-1MO3P-0242
Rath, V.; Klitzsch, N.
 Joint modeling and Bayesian inversion of SP, temperatures and hydraulic data for geothermal systems

Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 15:30–17:00

MPRG Poster Area
 Chairperson: N.N.

Natural Hazards

NH1.01 Satellite Remote Sensing Applications in Hydrometeorology, Water Cycle, and Flood Forecasting (co-listed in AS)

Convener: Anagnostou, E.
 Co-Convener(s): Oki, T., Levizzani, V., Houser, P.
 Lecture Room 27
 Chairperson: ANAGNOSTOU, E.N.

13:30–13:45; EGU2007-A-10790; NH1.01-1MO3O-001
Lawford, R. G.
 Remote Sensing and the Detection of Change in the Global Water Cycle

13:45–14:00; EGU2007-A-01073; NH1.01-1MO3O-002
Roads, J.
 GEWEX Water and Energy Budget Studies

14:00–14:15; EGU2007-A-04984; NH1.01-1MO3O-003
Seto, S.; Kim, H.; Yoshimura, K.; Oki, T.
 A global flood monitoring system with high-resolution precipitation maps by satellite

14:15–14:30; EGU2007-A-04795; NH1.01-1MO3O-004
Matthews, D.; Brilly, M.; Houser, P.
 WaterNet: The NASA water cycle solutions network

14:30–14:45; EGU2007-A-05846; NH1.01-1MO3O-005
Peters-Lidard, C.; Tian, Y.; Garcia, M.; Choudhury, B.
 Multitemporal analysis and downscaling of TRMM-based satellite rainfall products for land data assimilation applications

14:45–15:00; EGU2007-A-00639; NH1.01-1MO3O-006
Voisin, N.; Wood, A.W.; Lettenmaier, D.P.; Wood, E.F.
 Use of satellite remote sensing in a medium range global flood prediction system

15:00 COFFEE BREAK

Chairperson: LEVIZZANI, V.

15:30–15:45; EGU2007-A-11300; NH1.01-1MO4O-001
Gebremichael, M.; **Anagnostou, E.N.;** Dinku, T.
 A Blueprint for Advancing Hydrologic Predictability in the Nile Basin

15:45–16:00; EGU2007-A-02413; NH1.01-1MO4O-002
Villarini, G.; **Krajewski, W.F.**
 Detailed evaluation of the research-version of TMPA three-hourly $0.25^\circ \times 0.25^\circ$ rainfall estimates over Oklahoma

16:00–16:15; EGU2007-A-01261; NH1.01-1MO4O-003
Vischel, T.; Pegram, GGS.; Sinclair, S.
 Comparison of soil moisture fields estimated by catchment modelling and remote sensing: a case study in South Africa.

16:15–16:30; EGU2007-A-05004; NH1.01-1MO4O-004
Zipser, E.
 Weather regimes with greatest errors in rainfall estimation from TRMM

16:30–16:45; EGU2007-A-11506; NH1.01-1MO4O-005
Smith, E.A.; Mehta, A.; Mugnai, A.; Tripoli, G.J.
 Interactions Between Vestige Atlantic Tropical Cyclones and Mid-latitude Cyclonic Storms Over Mediterranean Basin

16:45–17:00; EGU2007-A-05606; NH1.01-1MO4O-006
Sohn, B.J.; Chung, E.S.; Schmetz, J.; Koenig, M.
 Diurnal variation of convective activities over tropical Africa and its associated upper tropospheric humidity variation

17:00 END OF SESSION

NH1.01 Satellite Remote Sensing Applications in Hydrometeorology, Water Cycle, and Flood Forecasting (co-listed in AS) – Posters

Convener: Anagnostou, E.

Co-Convener(s): Oki, T., Levizzani, V., Houser, P.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: ANAGNOSTOU, E.N.

XY0295; EGU2007-A-00009; NH1.01-1MO5P-0295

Liu, L.; Chao, C.; Lin, L.

The analysis of change of intensity of Longwang Typhoon using satellite data

XY0296; EGU2007-A-01206; NH1.01-1MO5P-0296

Molchanov, O.

Social tension as precursor of large damaging earthquake: legend or reality?

XY0297; EGU2007-A-02759; NH1.01-1MO5P-0297

Lima, W.; Machado, L.; Morales, C.; Viltard, N.; Angelis, C. Rainfall sensitivity analyses for the HSB sounder during Dry-to-Wet/AMC/LBA field campaign

XY0298; EGU2007-A-03108; NH1.01-1MO5P-0298

Chronis, T; Anagnostou, E.; Williams, E.; Petersen, W. Lightning as a precursor of tropical cyclogenesis

XY0299; EGU2007-A-04975; NH1.01-1MO5P-0299

Thi Mai, Dang; Thai Lan, Ngyue

Satellite Image application in Flood Forecast in Central Part Of Viet Nam

XY0300; EGU2007-A-05433; NH1.01-1MO5P-0300

Mieruch, S.; Noël, S.; Bovensmann, H.; Burrows, J.P.

Water vapour trends from GOME and SCIAMACHY satellite measurements

XY0301; EGU2007-A-06536; NH1.01-1MO5P-0301

Papadopoulos, A.; Serpetzoglou, E.; Anagnostou, E.N.; Vamvakas, I.A.; Tadesse, A.

The Influence of Assimilating Land Surface Parameters on the Simulation Performance of Warm Season Convective Systems

XY0302; EGU2007-A-06592; NH1.01-1MO5P-0302

Vamvakas, I.A.; Papadopoulos, A.; Anagnostou, E.; Serpetzoglou, E.; Lawrence, P.

Sensitivity of simulated land-atmospheric processes on scale and precipitation uncertainty

XY0303; EGU2007-A-07045; NH1.01-1MO5P-0303

Leinweber, R.; Preusker, R.; Fischer, J.

A new retrieval of total water vapour content from MERIS measurements

XY0304; EGU2007-A-07602; NH1.01-1MO5P-0304

Scharrer, K.; Spieler, O.; Mayer, Ch.; Münzer, U.; Dingwell, D.B.

Jökulhlaups in Iceland - SAR contribution to flowpath prediction

XY0305; EGU2007-A-08793; NH1.01-1MO5P-0305

Porcu', F.; Capacci, D.; Prodi, F.

The use of TRMM-PR rainrate products to verify and calibrate a SEVIRI-based statistical rainfall estimation technique

XY0306; EGU2007-A-08944; NH1.01-1MO5P-0306

Bellerby, T

High-resolution cloud-top advection tracking

XY0307; EGU2007-A-09539; NH1.01-1MO5P-0307

Grieser, J.; Alessandrini, S.; Evangelisti, M.; Gommès, R.; Bernardi, M.; Ticheler, J.; Cofield, S.

The FAO African Rainfall Estimate FAORFE

XY0308; EGU2007-A-09727; NH1.01-1MO5P-0308

Puech, C.; Hostache, R.; Schumann, G.; Matgen, P.; R, D. Using AI to enhance the estimation of flood water levels by merging DTM and satellite imagery

XY0309; EGU2007-A-09877; NH1.01-1MO5P-0309

Fekete, B.; Bjerklie, D.; Braswell, R.

Surveying and Monitoring River Systems from Satellite Platforms

XY0310; EGU2007-A-10018; NH1.01-1MO5P-0310

Grecu, M; Chronis, T; **Anagnostou, E**

Passive Microwave Estimates of Sea Surface Winds over the Mediterranean

XY0311; EGU2007-A-10183; NH1.01-1MO5P-0311

Dinku, T

Validation of Satellite rainfall products over complex terrain in Africa

XY0312; EGU2007-A-10466; NH1.01-1MO5P-0312

Morales, C.A.; Anagnostou, E.N.

Evaluation of the ZEUS Global Lightning Monitoring Network Expansion

NH1.03 Diagnosis, modelling and forecasting of meteorological and hydrological hazards produced by extreme weather and climate change (co-listed in AS & CL)

Convener: Loukas, A.

Co-Convener(s): Llasat, M., Ulbrich, U.

Lecture Room 27

Chairperson: LLASAT,M.C.

8:30–8:45; EGU2007-A-00202; NH1.03-1MO10-001

Cony, M.; Hernández, E.; Prieto, L.; del Teso, T.

Influence of synoptic scale in the generation of extremely hot days and extremely cold days in Europe

8:45–9:00; EGU2007-A-00990; NH1.03-1MO10-002

Krakovska, S.; Goettel, H.; Jacob, D.; Pfeifer, S.

A complex of the numerical models in the study of the catastrophic floods

9:00–9:15; EGU2007-A-01309; NH1.03-1MO10-003

Federico, S.; Avolio, E.; Bellecci, C.; Lavagnini, A.; Colacino, M.

The upper-tropospheric forcing in the 10th -12th December 2003 storm over Calabria

9:15–9:30; EGU2007-A-03479; NH1.03-1MO10-004

Funatsu, B.; Claud, C.; **Chaboureaud, J.-P.**

Potential of AMSU for detection of intense rainfall and associated upper level conditions in the Mediterranean region

9:30–9:45; EGU2007-A-07724; NH1.03-1MO10-005

Rostovtseva, V.V.; Goncharenko, I.V.

Satellite microwave scanner radiometry data using for analyze of the new tropical cyclones generation criterion in the Atlantic Ocean

9:45–10:00; EGU2007-A-08937; NH1.03-1MO10-006

Martín, A.; Homar, V.

Mesoscale short-range ensemble predictions for three high impact weather events in the Western Mediterranean

10:00 COFFEE BREAK

Chairperson: LOUKAS, A.

10:30–10:45; EGU2007-A-02638; NH1.03-1MO20-001

Price, C.; Yair, Y.; Mugnai, A.; Lagouvardos, K.; Llasat, M.C.; Michaelides, S.

FLASH: A new EU project related to Mediterranean flash floods

10:45–11:00; EGU2007-A-02839; NH1.03-1MO2O-002
Pinto, J.G.; Brücher, T.; Fink, A.H.; Krüger, A.
 Extraordinary snow accumulations over parts of central Europe during the winter of 2005/06 and weather-related hazards

11:00–11:15; EGU2007-A-04396; NH1.03-1MO2O-003
Llasat, M.C.; Barnolas, M.; Rigo, T.; Marcuello, C.
 A comparison of heavy rainfall events in Spain. Modeling by radar and raingauge data

11:15–11:30; EGU2007-A-08692; NH1.03-1MO2O-004
Perekhodtseva, E.
 The automated forecast to 12-36h ahead of storm wind and heavy rainfalls over the territory of Siberia

11:30–11:45; EGU2007-A-09989; NH1.03-1MO2O-005
Chou, S.C.; Seluchi, M.; Cavalcanti, I.F.A.
 Simulations of heavy rainfall events over Serra do Mar in Brazil

11:45–12:00; EGU2007-A-11217; NH1.03-1MO2O-006
 Dewals, B.J.; De Sutter, R.; De Sme, L.; Piroton, M.
 Synthesis of primary impacts of climate change in Belgium, as an onset to the development of an assessment tool for adaptation measures

12:00 END OF SESSION

NH1.03 Diagnosis, modelling and forecasting of meteorological and hydrological hazards produced by extreme weather and climate change (co-listed in AS & CL) – Posters

Convener: Loukas, A.
 Co-Convener(s): Llasat, M., Ulbrich, U.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: ULBRICH, U.

XY0313; EGU2007-A-00238; NH1.03-1MO5P-0313
 Kapochkin, B.B.; Kucherenko, N.V.; **Kapochkina, A.B.**
 The theory of formation of a tropical cyclone

XY0314; EGU2007-A-00919; NH1.03-1MO5P-0314
Casanova, C.; Romo, A.; Hernández, E.; Casanova, J. L.
 Operational cloud classification for the Iberian Peninsula using Meteosat-8 and Aqua-Airs image fusion

XY0315; EGU2007-A-01047; NH1.03-1MO5P-0315
Repina, I.; Smirnov, A.; Emilenko, A.; Agapov, Yu.; Miller, E.
 Evolution of katabatic flow (bora) on the northern Black sea coast

XY0316; EGU2007-A-02363; NH1.03-1MO5P-0316
Blechsmidt, A.-M.; Graßl, H.
 Investigation of polar lows by combined use of active and passive satellite remote sensing

XY0317; EGU2007-A-02835; NH1.03-1MO5P-0317
 Müller, M.; **Kaspar, M.**
 A method to asses the extremity of an upcoming precipitation event

XY0318; EGU2007-A-03525; NH1.03-1MO5P-0318
Pinto, J.G.; Neuhaus, C.P.; Reyers, M.; Kerschgens, M.; Leckebusch, G.C.; Speth, P.
 Impacts of climate change to storm events over West Germany: application of a statistical-dynamical regionalisation method

XY0319; EGU2007-A-04014; NH1.03-1MO5P-0319
Forster, C.; Tafferner, A.
 Weather Forecast User Oriented System Including Object Nowcasting (WxFUSION): An integrated nowcasting and forecasting system using real-time observations and model data

XY0320; EGU2007-A-04099; NH1.03-1MO5P-0320
Llasat, M.C.; Garrote, L.; Barrera, A.; Atencia, A.; Barnolas, M.; Llasat-Botija, M.; Rigo, T.; Altava-Ortiz, V.; Mediero, L.; Cabot, J.
 The analysis of flash floods in Catalonia in the framework of the European project FLASH

XY0321; EGU2007-A-04393; NH1.03-1MO5P-0321
Gelfan, A.
 Climatic and basin factors affecting the extreme snowmelt floods: analysis on the basis of a physically-based model coupled with a stochastic weather generator

XY0322; EGU2007-A-05259; NH1.03-1MO5P-0322
Popa, F.; Stefan, S.; Banciu, D.
 Study of the Severe Weather Episodes in Romania by using Potential Vorticity

XY0323; EGU2007-A-07056; NH1.03-1MO5P-0323
Thuring, M.; Hammer, J.; Pozzoni, M.; Cannata, M.
 Assessment of drought susceptibility in the Caribbean island of St. Lucia

XY0324; EGU2007-A-07608; NH1.03-1MO5P-0324
Jorba, O.; Marrero, C.; Cuevas, E.; Baldasano, J.M.
 Impact of the extratropical storm delta over the Canary Islands on 28-30 November 2005: severe windstorm event

XY0325; EGU2007-A-07779; NH1.03-1MO5P-0325
Orlowsky, B.; Gerstengarbe, F.-W.; Werner, P.C.
 The Elbe Catchment: Extreme Events in Observations and Simulations

XY0326; EGU2007-A-08488; NH1.03-1MO5P-0326
Grieser, J.; Staeger, T.; Schönwiese, C.-D.
 Estimation of Return Periods of daily Extreme Precipitation in Germany 1951 - 2000

XY0327; EGU2007-A-09186; NH1.03-1MO5P-0327
Aznar, R.; Valero, F.; Montávez, J.P.
 Interaction of the atmospheric flow with the orography during an extreme cold surge

XY0328; EGU2007-A-09317; NH1.03-1MO5P-0328
 Marinaki, A.; Spiliotopoulos, M.; **Michalopoulou, H.**
 A comparative performance analysis of three meteorological drought indices for Thessaly, Greece

XY0329; EGU2007-A-09392; NH1.03-1MO5P-0329
Ortego, M.I.; Gibergans-Báguena, J.; Egozcue, J.J.
 The use of Compositional Data to classificate rainfall events: Application to rainfall intensities in Catalonia (Spain)

XY0330; EGU2007-A-09531; NH1.03-1MO5P-0330
Chauvelon, P.; Pichaud, M.; Gaufres, P.; Sandoz, A.
 Impact of meteorological and hydrological extreme events (floods and droughts) on the Rhone delta hydraulic management

XY0331; EGU2007-A-10031; NH1.03-1MO5P-0331
Ortego, M.I.; Egozcue, J.J.
 Scale and evaluation of a Poisson-GPD model

XY0332; EGU2007-A-10111; NH1.03-1MO5P-0332
Fossumpaur, P.; Holecek, M.; Nachazel, K.
 Modelling of synthetic rainfall-runoff flood patterns

XY0333; EGU2007-A-10140; NH1.03-1MO5P-0333
Loukas, A.; Vasiliades, L.; Tzabiras, J.; Zanis, P.
 Downscaling of monthly precipitation and temperature for drought assessment

XY0334; EGU2007-A-10253; NH1.03-1MO5P-0334

Ólafsson, H.; Ágústsson, H.

Forecasting benefits of increased horizontal resolution in complex terrain

NH3.01 Documentation and monitoring of landslides and debris flows for mathematical modelling and design of mitigation measures (co-listed in GM)

Convener: Arattano, M.

Co-Convener(s): Lollino, G., Tagliavini, F., Mikos, M.

Lecture Room 18

Chairperson: ARATTANO, M.

8:30–8:45; EGU2007-A-06035; NH3.01-1MO1O-001

Boniello, A.; **Calligaris, C.;** Zini, L.

Debris flow modelling in Julian Alps

8:45–9:00; EGU2007-A-04188; NH3.01-1MO1O-002

Berti, M.; Simoni, A.

Prediction of debris flow inundation areas using empirical mobility relationships

9:00–9:15; EGU2007-A-07085; NH3.01-1MO1O-003

Lin, S. C.; Yi, H. F.; Lin, M. L.

Debris flow run-off simulation using terrain scanning μ V an example of Songhe River Watershed, Taiwan

9:15–9:30; EGU2007-A-05975; NH3.01-1MO1O-004

j.t. Weidinger, j.t.W.; e. Niesner, e.N.; k. Millahn, k.M.

Prediction of debris flows with multi-electrode geo-electric method in the Austrian Alps and its possible application in similar mountain regions

9:30–9:45; EGU2007-A-02619; NH3.01-1MO1O-005

Scheidl, S.; Rickenmann, R.

Estimation of debris flow deposition volumes using LiDAR data

9:45–10:00; EGU2007-A-07055; NH3.01-1MO1O-006

Rickli, C.; Böll, A.

Analyses of rainfall- triggered shallow landslides in Switzerland

10:00 COFFEE BREAK

Chairperson: TAGLIAVINI, F.

10:30–10:45; EGU2007-A-02371; NH3.01-1MO2O-001

Marcato, G.; Zabusky, L.; Silvano, S.

Capabilities of continuous and discontinuous modelling of the rock slopes – a landslide in the Carnian Alps (Italy) using as an example

10:45–11:00; EGU2007-A-02942; NH3.01-1MO2O-002

Biavati, G.

Empirical evaluations of the effectiveness of drainage systems of 13 landslides in the Northern Apennines (Italy)

11:00–11:15; EGU2007-A-05340; NH3.01-1MO2O-003

Colangelo, A.C.

Mass movement hazard assessment model in synthetic element relief unity

11:15–11:30; EGU2007-A-06440; NH3.01-1MO2O-004

Delmonaco, G.; De Donatis, M.; Margottini, C.; Moia, F.; Spizzichino, D.

Integrated geological, geomorphological and geotechnical approaches in long-term monitoring of the large Craco Landslide (Southern Italy).

11:30–12:00; EGU2007-A-11224; NH3.01-1MO2O-005

Tang, A.P.

An experimental wireless monitoring network for highway slope in Tibet –Qinghai frozen ground zone (solicited)

12:00 END OF SESSION

NH3.01 Documentation and monitoring of landslides and debris flows for mathematical modelling and design of mitigation measures (co-listed in GM) – Posters

Convener: Arattano, M.

Co-Convener(s): Lollino, G., Tagliavini, F., Mikos, M.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: TAGLIAVINI, F.

XY0335; EGU2007-A-01753; NH3.01-1MO5P-0335

Arattano, M.; Marchi, L.; Cavalli, M.

Analysis of debris flow recordings in an instrumented basin

XY0336; EGU2007-A-08856; NH3.01-1MO5P-0336

Arattano, M.; Franzi, L.

Simplifications and parameters calibrations in kinematic models for debris flows.

XY0337; EGU2007-A-05994; NH3.01-1MO5P-0337

Chang, C

A Study on Model Similitude of Seepage Failure of Debris Flow

XY0338; EGU2007-A-08406; NH3.01-1MO5P-0338

Shieh, C. L.; Ting, C. H.; Liu, D. H.

The Impulsive Force of Debris Flow on a Curved-Slit Dam

XY0339; EGU2007-A-09175; NH3.01-1MO5P-0339

Lin, M.; Lu, B.

Numerical simulation of debris flow initiation caused by

XY0340; EGU2007-A-02298; NH3.01-1MO5P-0340

Capparelli, G.; Mensio, L.; Tiranti, D.; Versace, P.

Forecasting of landslides induced by rainfall - F.La.I.R. hydrological model application on Piemonte Region (NW Italy)

XY0341; EGU2007-A-03938; NH3.01-1MO5P-0341

Mikoš, M.; Ribičič, M.; Pešek, D.; Majes, B.

Geotechnical Investigations and Measurements on the Gradišče Landslide, W Slovenia

XY0342; EGU2007-A-07009; NH3.01-1MO5P-0342

Gambillara, R.; Centurini, A.; Ghirelli, M.; Martin, S.

Geomechanical characterisation of Liro and Livo lithologies (northern Lake Como, Italy): the first report

XY0343; EGU2007-A-08355; NH3.01-1MO5P-0343

De Vita, P.; Di Clemente, E.; Ferraiolo, A.

Hydrogeomorphological and stability modeling of pyroclastic soils covering peri-vesuvian hillslopes (Campania – Southern Italy)

XY0344; EGU2007-A-08913; NH3.01-1MO5P-0344

Lollino, G.; Giordan, D.; Baldo, M.

Integrated utilization of LIDAR and GPS positioning techniques for landslide monitoring

XY0345; EGU2007-A-11223; NH3.01-1MO5P-0345

Tang, A.P.

Dynamic response analysis of highway slope under traffic vibration in Tibet –Qinghai frozen ground zone

NH3.03 Multidisciplinary monitoring, characterization and early warning projects on large landslides

Convener: Blikra, L.
Co-Convener(s): Crosta, G., Jaboyedoff, M., Froese, C., Loew, S., Clague, J., Evans, S.
Lecture Room 18
Chairperson: CROSTA, G.B.

13:30–13:45; EGU2007-A-05307; NH3.03-1MO3O-001
Blikra, L.H.; Froese, C
Multidisciplinary monitoring and early warning projects:
Examples from Åknes in western Norway and Turtle Mountain in Alberta, Canada

13:45–14:00; EGU2007-A-03537; NH3.03-1MO3O-002
Krangnes, L.K.; Gerhardsen, AG
Åknes/Tafjord monitoring system

14:00–14:15; EGU2007-A-01421; NH3.03-1MO3O-003
Norland, R
Permanent Groundbased Differential Interferometric Radar System Installation for Remote Monitoring

14:15–14:30; EGU2007-A-06728; NH3.03-1MO3O-004
Lovisol, M.; Fogliano, F; Blikra, L.H.
DMS monitoring for early warning at the Åknes rock slope failure, western Norway

14:30–14:45; EGU2007-A-01366; NH3.03-1MO3O-005
Huang, A.B.; Hsu, H.H.; Dong, J.J.; Lin, M.L.; Lin, C.W.
Monitoring of the Hungtsaiping Landslide of Nantou, Taiwan

14:45–15:00; EGU2007-A-10231; NH3.03-1MO3O-006
Gonzalez, D.A.; Corominas, J.; Ledesma, A.; Moya, J.; Gili, J.A.
Continuous control of slow movements in landslides

15:00 COFFEE BREAK

Chairperson: EVANS, S.

15:30–15:45; EGU2007-A-02541; NH3.03-1MO4O-001
Henderson, I.; Saintot, A
The influence of bedrock geology on landslide susceptibility: a regional approach from Storfjorden in western Norway

15:45–16:00; EGU2007-A-02949; NH3.03-1MO4O-002
Bottino, G.; **Godio, A.**; Rinaudo, F.
Integration between laser-scanner image and geophysical data for large landslide analysis

16:00–16:15; EGU2007-A-08889; NH3.03-1MO4O-003
t. Lebourg, t. L.; s. El Bedoui, s. E.
Multi parametric study of the “Vence” landslide, at different time and spatial scales (Alpes-Maritimes, France).

16:15–16:30; EGU2007-A-06271; NH3.03-1MO4O-004
Poisel, R.; Preh, A.
The importance of failure mechanism recognition in modelling and hazard assessment of slope instabilities

16:30–16:45; EGU2007-A-05871; NH3.03-1MO4O-005
Hutchinson, D.J.; Diederichs, M.; Harrap, R.; Carranza-Torres, C.; Kalenchuk, K.
Integrated geomechanics / geomatics approach to understanding the movement of a large, complex slowly moving landslide

16:45–17:00; EGU2007-A-08806; NH3.03-1MO4O-006
Baron, I.; Klimes, J.; Kasperakova, D.; Stemberk, J.; Janos, V.; Novotny, R.
Remarks on evolution of deep-seated translational landslides in the Silesian Nappe, Outer Western Carpathians (Czech Republic)

17:00 END OF SESSION

NH3.03 Multidisciplinary monitoring, characterization and early warning projects on large landslides – Posters

Convener: Blikra, L.
Co-Convener(s): Crosta, G., Jaboyedoff, M., Froese, C., Loew, S., Clague, J., Evans, S.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: BLIKRA, L.

XY0346; EGU2007-A-03341; NH3.03-1MO5P-0346
Vilímek, V.; Zvelebil, J.; Viles, H.; **Klimeš, J.**
Multidisciplinary study of geodynamical hazards at Machu Picchu World Heritage site, Peru.

XY0347; EGU2007-A-06142; NH3.03-1MO5P-0347
Froese, C.; Moreno, M.; **Jaboyedoff, M.**
Use of Airborne LiDAR to Support Monitoring and Emergency Response Planning at Turtle Mountain, Alberta Canada

XY0348; EGU2007-A-09491; NH3.03-1MO5P-0348
Pedrazzini, A.; Ambrosi, C.; Jaboyedoff, M.; Oppikofer, T.
Lithological and structural control of the deep seated gravitational sliding of the “Les Pics” mountain (Wallis, Switzerland)

XY0349; EGU2007-A-06519; NH3.03-1MO5P-0349
Oppikofer, T.; Blikra, L.; Derron, M.-H.; Jaboyedoff, M.
Understanding the geometry of the basal sliding surface by geomorphic interpretation of the neighborhood of the Åknes landslide (Norway)

XY0350; EGU2007-A-07093; NH3.03-1MO5P-0350
Saintot, A.; Henderson, I.; Derron, M.-H.
The role of pre-existing ductile and brittle fabrics in the development of large rockslides: examples from Norway

XY0351; EGU2007-A-03670; NH3.03-1MO5P-0351
Bois, T.; Bouissou, S.; Guglielmi, Y.
Influence of inherited faults on deep-seated progressive failure in slopes: a 2-D physical modeling approach based on the southern french Alps massif area.

XY0352; EGU2007-A-03699; NH3.03-1MO5P-0352
Bouissou, S.; Bois, T.
Influence of preexisting fractures on rockslide initiation an evolution: a 2-D physical modeling approach based on the Randa 1991 events.

XY0353; EGU2007-A-06073; NH3.03-1MO5P-0353
Oppikofer, T.; Blikra, L.; Derron, M.-H.; Jaboyedoff, M.
Structural and geometric back-analysis of the 1934 rock slide event in Tafjord (Norway) and implications for rock slide detection

XY0354; EGU2007-A-05512; NH3.03-1MO5P-0354
Longva, O.; Blikra, L. H.; Dehls, J. F.
The distribution, stratigraphy and morphology of rock-avalanche deposits in the Storfjorden area, Norway.

XY0355; EGU2007-A-08662; NH3.03-1MO5P-0355
El Bedoui, S.; Guglielmi, Y.; Lebourg, T.; Pérez, JL
Processes of progressive failure of a rock slope over a 10 kyears period: results from the “La Clapière” slope (French south Alps, France). (cancelled)

XY0356; EGU2007-A-03945; NH3.03-1MO5P-0356
Gruber, A.; Reitner, J. M.
Dating of mass movements by rock glaciers: Examples from the Eastern Alps

XY0357; EGU2007-A-08248; NH3.03-1MO5P-0357
Glimsdal, S.; Saelevik, G.; Harbitz, C. B.; Jensen, A.; Pedersen, G. K.; Domaas, U.; Lovholt, F.
Generation and propagation of the tsunami from the potential Åknes rock slide

XY0358; EGU2007-A-08471; NH3.03-1MO5P-0358
Bozzano, F.; Gaeta, M.; Martino, S.; Mazzanti, P.; Prestinzi, A.
The engineering-geology model of the M.Paci rock-avalanche (Scilla, southern Italy), triggered by the 1783 Calabria earthquake

XY0359; EGU2007-A-07812; NH3.03-1MO5P-0359
Ganerød, G.V.; Dalsegg, E.; Elvebakk, H.; Rønning, J.S.; Blikra, L.H.
A Geological Model based Structural Interpretations of Multidisciplinary data from the Åknes Rockslide, Western Norway

XY0360; EGU2007-A-11583; NH3.03-1MO5P-0360
Rønning, J.S.; Blikra, L.H.; Dalsegg, E.; Elvebakk, H.; Ganerød, G.V.
Geophysical investigations at the Åknes rock-slope failure

XY0361; EGU2007-A-03553; NH3.03-1MO5P-0361
Derron, M.-H.; Ganerød, G.V.; Elvebakk, H.
Hydrochemical characterization of waters on the rockslide site of Aaknes (western Norway)

XY0362; EGU2007-A-07116; NH3.03-1MO5P-0362
Christiansen, H.H.; Blikra, L.H.
Using one-dimensional miniature Accelerometers to monitor Rock Slope Deformation in northern and western Norway

XY0363; EGU2007-A-07187; NH3.03-1MO5P-0363
Mertl, S.; Brückl, E.
Detection and localization of micro-earthquakes on deep-seated mass movements

XY0364; EGU2007-A-02231; NH3.03-1MO5P-0364
Nurtaev, B.S.; Niyazov, R.A.
Combination of seismic impact and rainfalls as a large slopes instability triggering factor

XY0365; EGU2007-A-06198; NH3.03-1MO5P-0365
Roth, M.; Blikra, L. H.
Seismic monitoring of the unstable Aaknes rock slope, Norway

XY0366; EGU2007-A-06347; NH3.03-1MO5P-0366
Dehls, J. F.; Leva, D.; Rivolta, C.; Blikra, L. H.
Ground-based InSAR monitoring of the Åknes rockslide

XY0367; EGU2007-A-08056; NH3.03-1MO5P-0367
Colangelo, G.; Lapenna, V.; Loperte, A.; Perrone, A.; Satriani, A.; Telesca, L.; Calice, G.; Pergola, N.; Tramutoli, V.
GRID technologies to remotely control distributed sensors for 4d geoelectrical tomography: first results in landslide monitoring

NH8.01/NP4.04 Extreme Events: Causes and Consequences (E2-C2) (co-organized by NH & NP) (co-listed in GM)

Convener: Yiou, P.
Co-Convener(s): Malamud, B.
Lecture Room 16 (L)
Chairperson: YIOU, P. & RUST, H.

8:30–8:45; EGU2007-A-10437; NH8.01/NP4.04-1MO10-001
Zaliapin, I.; **Ghil, M.**
A differential delay model of ENSO variability: quantitative predictability and structural instability

8:45–9:00; EGU2007-A-03329; NH8.01/NP4.04-1MO10-002
Mestre, O.; Hallegatte, S.
Predictors of extreme hurricane intensities over the North Atlantic

9:00–9:15; EGU2007-A-03760; NH8.01/NP4.04-1MO10-003
Friederichs, P.; Hense, A.
Statistical downscaling of precipitation using extreme value theory

9:15–9:30; EGU2007-A-02338; NH8.01/NP4.04-1MO10-004
Overeem, A.; Buishand, T.A.; Holleman, I.
Uncertainty in rainfall depth-duration-frequency curves

9:30–9:45; EGU2007-A-07660; NH8.01/NP4.04-1MO10-005
Schölzel, C.; Naveau, P.; Vrac, M.; Friederichs, P.
On the derivation of fundamental probability distributions for extreme precipitation

9:45–10:00; EGU2007-A-06806; NH8.01/NP4.04-1MO10-006
Bernacchia, A.; Naveau, P.
Detecting anomalous spatial patterns with the cumulant function

10:00 COFFEE BREAK

Chairperson: VANNITSEM, S. & WITT, A.

10:30–10:45; EGU2007-A-02938; NH8.01/NP4.04-1MO20-001
Hergarten, S.
Some thoughts about extreme events in earthquakes, rock-falls and volcanic eruptions

10:45–11:00; EGU2007-A-03505; NH8.01/NP4.04-1MO20-002
Kossobokov, V. G.; **Lepreti, F.**; Carbone, V.
Complexity in sequences of solar flares, earthquakes, and starquakes

11:00–11:15; EGU2007-A-03434; NH8.01/NP4.04-1MO20-003
Taricco, C.; **Alessio, S.**; Vivaldo, G.
Sequence of the Vesuvio eruptive events recorded in shallow-water Ionian Sea sediments

11:15–11:30; EGU2007-A-08345; NH8.01/NP4.04-1MO20-004
Byrdina, S.; Shebalin, P.; Narteau, C.; Le Mouél, J.-L.
Properties of the aftershock decay rate across different stress regimes

11:30–11:45; EGU2007-A-04560; NH8.01/NP4.04-1MO20-005
Kiyani, K.; **Chapman, S C.**; Hnat, B
Quantifying the scaling properties of finite length Levy flights- the role of outliers.

11:45–12:00; EGU2007-A-01766; NH8.01/NP4.04-1MO20-006
Hallegatte, S.; Ghil, M.
Endogenous Business Cycles and the Economic Response to Endogenous Business Cycles and the Economic Response to Exogenous Shocks

12:00 END OF SESSION

NH8.01/NP4.04 Extreme Events: Causes and Consequences (E2-C2) (co-organized by NH & NP) (co-listed in GM) – Posters

Convener: Yiou, P.

Co-Convener(s): Malamud, B.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: GHIL, M. & MALAMUD, B.D.

XY0368; EGU2007-A-06462; NH8.01/NP4.04-1MO3P-0368

Romashkova, L. L.; Keilis-Borok, V. I.; Kossobokov, V. G. Comprehensive analysis of seismic activity at the ultimate scale of the Earth

XY0369; EGU2007-A-01536; NH8.01/NP4.04-1MO3P-0369

Stanica, D.; Stanica, M.; Vladimirescu, N.

Changes of electromagnetic (EM) pattern generated by seismic activity

XY0370; EGU2007-A-02595; NH8.01/NP4.04-1MO3P-0370

Soloviev, A.

Transformation of frequency-magnitude relation prior to large events in the model of block structure dynamics

XY0371; EGU2007-A-05397; NH8.01/NP4.04-1MO3P-0371

Shebalin, P.

Long-range activation of seismicity prior to largest earthquakes ($M_w \geq 8.3$)

XY0372; EGU2007-A-00687; NH8.01/NP4.04-1MO3P-0372

Petroni, F.; Ausloos, M.

Time series analysis of volcanic eruptions

XY0373; EGU2007-A-01690; NH8.01/NP4.04-1MO3P-0373

Mirmomeni, M.; Lucas, C.

Development of an alarm system for human artifacts to protect from solar extreme events as natural hazards

XY0374; EGU2007-A-00400; NH8.01/NP4.04-1MO3P-0374

Slepnev-Sokolinskiy, A.

The effect of critical deceleration: examples of use for monitoring the stability of complex systems.

XY0375; EGU2007-A-10474; NH8.01/NP4.04-1MO3P-0375

Witt, A.; Malamud, B.D..

Performance Tests for Techniques that Measure Long-Range Persistence in Gaussian, Log-Normal, and Levy Distributed Time Series

XY0376; EGU2007-A-09910; NH8.01/NP4.04-1MO3P-0376

Rust, H. W.; Kurths, J.

Bootstrap-Based Confidence Intervals for Return Level Estimation from Autocorrelated Processes

XY0377; EGU2007-A-03455; NH8.01/NP4.04-1MO3P-0377

Rossi, M.; Peruccacci, S.; Witt, A.; Guzzetti, F.; Malamud, B.D.; Pizzolo, M.

Statistical and temporal properties of 596 triggered landslide events in the Emilia-Romagna region of Italy

XY0378; EGU2007-A-02973; NH8.01/NP4.04-1MO3P-0378

Petrucci, O.; Pasqua, A. A.; Polemio, M.

Extreme rainfall events inducing damage in Calabria (south Italy) during the 1981-1990 decade

XY0379; EGU2007-A-03424; NH8.01/NP4.04-1MO3P-0379

Vrac, M.; Naveau, P.; Drobinski, P.

Modeling pairwise rainfall densities

XY0380; EGU2007-A-04207; NH8.01/NP4.04-1MO3P-0380

Yiou, P.; Nogaj, M.

North Atlantic temperature and precipitation extreme statistics, and their relation with weather patterns

XY0381; EGU2007-A-06153; NH8.01/NP4.04-1MO3P-0381

Mestre, O.; Denvil, S.; Somot, S.

Trend fitting of GCM temperature extremes

XY0382; EGU2007-A-01846; NH8.01/NP4.04-1MO3P-0382

Vannitsem, S.; Naveau, P.

Pairwise Spatial dependences of precipitation extremes over Belgium

XY0383; EGU2007-A-01783; NH8.01/NP4.04-1MO3P-0383

Hoang, T.T.H.; Nogaj, M.; Parey, S.; Dacunha-Castelle, D.

Non stationary extremes and trends of the whole dataset : examples for very hot and very cold temperatures

NH8.03 Natural and anthropogenic hazards in karst areas (co-listed in GM & HS)

Convener: Parise, M.

Co-Convener(s): De Waele, J., Gutierrez, F.

Lecture Room 16 (L)

Chairperson: DE WAELE, J.

13:30–13:45; EGU2007-A-01133; NH8.03-1MO3O-001

Galve, J.P.; Bonachea, J.; Remondo, J.; Gutiérrez, F.; Guerrero, J.; Lucha, P.; Cendrero, A.

A probabilistic approach to sinkhole hazard modelling. The case study of the Ebro Valley evaporite karst (NE Spain)

13:45–14:00; EGU2007-A-01134; NH8.03-1MO3O-002

Guerrero, J.; Gutiérrez, F.; Lucha, P.

Subsidence susceptibility zonation based on the analysis of paleokarst exposures in a high-speed railway built on a salt-bearing evaporite karst (Ebro Valley, NE Spain)

14:00–14:15; EGU2007-A-08911; NH8.03-1MO3O-003

Pueyo Anchuela, Ó.; Pocoví Juan, A.; Soriano Jiménez, M.A.; Casas Sainz, A.M.; Mochales López, T.

GPR as a tool to detect and characterize subsidence and collapse associated with shallow karst. Examples from the Central Ebro Basin (Spain)

14:15–14:30; EGU2007-A-01433; NH8.03-1MO3O-004

Kaufmann, G.; Jacobs, F.

Geophysical investigations of a sink in the northern Harz Foreland (North Germany)

14:30–14:45; EGU2007-A-04896; NH8.03-1MO3O-005

Closson, DC.; Abou Karaki, NAK

Overview of the human-induced geological hazards encountered along the Dead Sea coast

14:45–15:00; EGU2007-A-01460; NH8.03-1MO3O-006

Parise, M.; Donno, G.; De Pascalis, A.; De Pascalis, F.; Inguscio, S.

Subsidence and sinkholes related to quarrying in karst

15:00 COFFEE BREAK

Chairperson: PARISE, M.

15:30–15:45; EGU2007-A-04614; NH8.03-1MO4O-001
van Beynen, P.; Matusick, J.; Zanbergen, P.
Comparative study of groundwater vulnerability models in a karst aquifer in Central Florida

15:45–16:00; EGU2007-A-00033; NH8.03-1MO4O-002
Bonacci, O.; Rubinic, J.
Water losses from the reservoir built in karst: Example of the Boljuncica reservoir (Istria, Croatia)

16:00–16:15; EGU2007-A-07803; NH8.03-1MO4O-003
Brinkmann, R.; Parise, M.
The role of rainfall in producing karst depressions in Florida

16:15–16:30; EGU2007-A-02254; NH8.03-1MO4O-004
Polemio, M.
The hazard of anthropic amplification of flooding damages in a karstic environment (Southern Italy)

16:30–16:45; EGU2007-A-00208; NH8.03-1MO4O-005
De Waele, J.
The environmental impacts of human activities on the karst of Sardinia (Italy)

16:45–17:00; EGU2007-A-06570; NH8.03-1MO4O-006
Griffiths, P.; Ramsey, C.
Legislation, Regulations, Policies and Practice Guidelines for Protection and Management of Caves on Private Lands in British Columbia, Canada: The Case of SPAET Cave

17:00 COFFEE BREAK

Chairperson: N.N.

17:00 END OF SESSION

NH8.03 Natural and anthropogenic hazards in karst areas (co-listed in GM & HS) – Posters

Convener: Parise, M.
Co-Convener(s): De Waele, J., Gutierrez, F.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 10:30–12:00
Poster Area Halls X/Y
Chairperson: GUTIERREZ, F.

XY0384; EGU2007-A-00053; NH8.03-1MO2P-0384
Urich, P.; **Day, M.**
Natural and anthropogenic hazards in the Bohol karst

XY0385; EGU2007-A-01839; NH8.03-1MO2P-0385
Molerio León, L.; Parise, M.
Managing environmental problems in Cuban karstic aquifers

XY0386; EGU2007-A-01841; NH8.03-1MO2P-0386
Aldana Vilas, C.; Farfan Gonzalez, H.; Molerio León, L.; Parise, M.
Self-purification capability of underground water courses in the humid tropics: results of a tracing experiment at the Gran Caverna de Santo Tomás, Cuba

XY0387; EGU2007-A-01851; NH8.03-1MO2P-0387
Nkhuwa, D.C.W.; Ahmed, A.H.; Kafula, T.; Silembo, O.
Effect of filling stations and toxic waste dumps on the karstified marble aquifer in Lusaka

XY0388; EGU2007-A-06127; NH8.03-1MO2P-0388
Delle Rose, M.; Vitale, A.
An approach on the hydrogeological vulnerability of fluvial-karst systems (Lecce province, southern Italy)

XY0389; EGU2007-A-06282; NH8.03-1MO2P-0389
v. Liguori, V.L.; g. Manno, G.M.
The Muti Coffari mine: natural and antropogenic hazard in evaporitic area (Sicily)

XY0390; EGU2007-A-10455; NH8.03-1MO2P-0390
Angelova, D.
Assessment of the natural and antropogenic hazards in karst for the region of Tylenovo, Northern Bulgarian Black Sea Coast

XY0391; EGU2007-A-06455; NH8.03-1MO2P-0391
Andriani, G.F.; Walsh, N.
The effects and importance of anthropogenic changes on karst environment

XY0392; EGU2007-A-00056; NH8.03-1MO2P-0392
Lopez, N.; Sciannamblo, D.; **Spizzico, M.**; Spizzico, V.; Tinelli, R.
Influence of the bad realization of pumping wells on the intrinsic vulnerability degree of a confined carbonatic aquifer: the Brindisi Plain case

XY0393; EGU2007-A-01226; NH8.03-1MO2P-0393
Lopez, N.; Sciannamblo, D.; Spizzico, M.
Advantages and disadvantages of Georadar used for hydro-geological investigations: case of study of shallow aquifer in the Brindisi Plain (Southern Italy).

XY0394; EGU2007-A-01724; NH8.03-1MO2P-0394
Van Den Eeckhaut, M.; Poesen, J.; Dusat, M.; Martens, V.; Duchateau, Ph.
Spatial patterns, causal factors and initiation mechanisms of sinkholes above underground limestone quarries: a case-study in South Limburg (Belgium)

XY0395; EGU2007-A-02417; NH8.03-1MO2P-0395
Mancini, F.; **Stecchi, F.**; Gabbianelli, G.
Monitoring ground subsidence induced by salt mining activity: the Tuzla (Bosnia & Herzegovina) case

XY0396; EGU2007-A-09224; NH8.03-1MO2P-0396
Murphy, P.; Craven Pothole Club & Guests
Contextual synthesis of multi-disciplinary data from Gaping Gill, North Yorkshire, UK.

XY0397; EGU2007-A-01228; NH8.03-1MO2P-0397
Lopez, N.; **Spizzico, V.**
Hydrologic and hydrogeologic characterization of karst lakes around Conversano (Apulia, ITALY), for estimating a right water balance.

XY0398; EGU2007-A-06000; NH8.03-1MO2P-0398
Fang, G.; Guanghui, J.; Yushi, L.; Dingning, C.
Study on the heterogeneity of water resources in peak cluster depression in karst area (cancelled)

XY0399; EGU2007-A-06244; NH8.03-1MO2P-0399
Gisbert, J.; Vallejos, A.; Pulido-Bosch, A.
Environmental and geotechnical problems in karstic terrains crossed by tunnels. A case study

XY0400; EGU2007-A-05277; NH8.03-1MO2P-0400
Zulaikah, SZ
Direction of the grow axis in stalagmite and their linkage to the past seismic events.

XY0401; EGU2007-A-05534; NH8.03-1MO2P-0401
Menichetti, M.
Anthropogenic hazards in the show caves in Italy

XY0402; EGU2007-A-06004; NH8.03-1MO2P-0402
Chama, A.
Occupational hazards, underground world and occupational diseases in Algeria

XY0403; EGU2007-A-06036; NH8.03-1MO2P-0403
Halliday, W.R.
 Natural and anthropogenic CO₂ hazards in karstic and pseudokarstic caves

XY0404; EGU2007-A-04646; NH8.03-1MO2P-0404
Tuyukina, T.
 Geochemical reasons for high risk of natural and anthropogenic hazards in northern taiga karst ecosystems on hard gypsum outcrops

XY0405; EGU2007-A-05191; NH8.03-1MO2P-0405
Abelson, M.; Yechieli, Y.; Bein, A.; Crouvi, O.; Baer, G.; Shtivelman, V.
 Sinkhole swarms along the Dead Sea coast

XY0406; EGU2007-A-11263; NH8.03-1MO2P-0406
Amanti, M.; Nisio, S.
 Deep piping sinkhole in Italian plain areas

NH11.03 Satellite Remote Sensing Applications for Urban Damage Detection

Convener: Stramondo, S.
 Co-Convener(s): Pierdicca, N., Chini, M.
 Lecture Room 18
 Chairperson: STRAMONDO, S.

17:30–17:45; EGU2007-A-01441; NH11.03-1MO5O-001
Hoffmann, J.; **Huber, M.;** Roth, A.
 Interferometric mapping of earthquake damage

17:45–18:00; EGU2007-A-06509; NH11.03-1MO5O-002
Matsuoka, M.; Yamazaki, F.
 Building damage mapping for the 2006 central Java, Indonesia earthquake using satellite SAR imagery

18:00–18:15; EGU2007-A-07458; NH11.03-1MO5O-003
Bovolo, F.; Bruzzzone, L.; Rathje, E.
 An approach to post-earthquake damage detection in urban areas based on Multitemporal high resolution images

18:15–18:30; EGU2007-A-00092; NH11.03-1MO5O-004
Gamba, P.; Dell'Acqua, F.; Stasolla, M.
 Toward the definition of a semi-automated building inventory tool and its use for earthquake damage assessment

18:30–18:45; EGU2007-A-09145; NH11.03-1MO5O-005
Hofele, G.; Thoennessen, U.; Middelman, W.
 Detection of Infrastructural Changes in Satellite Images - Screening and Detailed Analysis

18:45–19:00; EGU2007-A-03429; NH11.03-1MO5O-006
Gusella, L.; Bitelli, G; Mognol, A
 Change indexes accuracy evaluation for urban damage detection applications

19:00 END OF SESSION

NH11.03 Satellite Remote Sensing Applications for Urban Damage Detection – Posters

Convener: Stramondo, S.
 Co-Convener(s): Pierdicca, N., Chini, M.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 15:30–17:00
 Poster Area Halls X/Y
 Chairperson: PIERDICCA, N.

XY0407; EGU2007-A-02311; NH11.03-1MO4P-0407
Brunori, C.A.; Tertulliani, A.; Bignami, C.; Chini, M.; Perdicca, N.; Stramondo, S.
 Remotely sensed detection of earthquake damage in urban areas: validation techniques

XY0408; EGU2007-A-03064; NH11.03-1MO4P-0408
Bignami, C.; Chini, M.; **Stramondo, S.;** Pierdicca, N.
 Earthquake urban damage assessment from satellite data

XY0409; EGU2007-A-03068; NH11.03-1MO4P-0409
Bignami, C.; THE PREVIEW TEAM
 A prototype system based on satellite data to support the end users for damage assessment: the PREVIEW project

XY0410; EGU2007-A-04259; NH11.03-1MO4P-0410
Gamba, P.; Dell'Acqua, F.; Lisini, G.
 A comparison of various geometrical features for damage assessment in VHR urban imagery

XY0411; EGU2007-A-06607; NH11.03-1MO4P-0411
Chini, M.; Emery, W. J.; Pacifici, F.
 Change mapping in the Rocky Flats area as test bed for damage detection algorithms

XY0412; EGU2007-A-06857; NH11.03-1MO4P-0412
Miura, H.; Midorikawa, S
 Detection of slope failures due to the 2004 Niigata-ken Chuetsu, Japan earthquake using high-resolution satellite images

XY0413; EGU2007-A-11029; NH11.03-1MO4P-0413
Selma, C.; Inglada, J.
 An automatic Risk Chain for disaster management

XY0414; EGU2007-A-11077; NH11.03-1MO4P-0414
Wen, A.H.; Tang, A.P.
 Simulation of seismic disaster of infrastructure system in urban area

XY0415; EGU2007-A-11340; NH11.03-1MO4P-0415
Barbato, F.; Rossi, L.
 Very High Resolution satellite imagery for Disaster Management: the Eurimage approach

XY0416; EGU2007-A-11559; NH11.03-1MO4P-0416
Pulvirenti, L.; Chini, M.; Pierdicca, N.
 Effects of baseline urban texture on SAR image: applications to earthquake damage detection

XY0417; EGU2007-A-05674; NH11.03-1MO4P-0417
Kiavarz moghaddam, M.; samadzadegan, F.; valadan zoj, M.
 Rapid Damage Mapping for Post-Earthquake Building Damage Assessment

NH11.04 Modelling, computer-assisted simulations, and mapping of dangerous phenomena for hazard assessment

Convener: Iovine, G.
 Co-Convener(s): Sheridan, M., Di Gregorio, S.
 Lecture Room 24
 Chairperson: NSOM, B.

8:30–8:45; EGU2007-A-01307; NH11.04-1MO1O-001
Tapia, R.; Timonin, V.; Pozdnukhov, A.; Kanevski, M.; Gruson, M.
 Automatic Regional Classification of Environmental Data

8:45–9:00; EGU2007-A-00317; NH11.04-1MO1O-002
Musson, R.M.W
 Routine application of simulation techniques for earthquake hazard studies

9:00–9:15; EGU2007-A-01321; NH11.04-1MO1O-003
Pozdnoukhov, A.; Kanevski, M.
 Support Vector Model Selection for Environmental Mapping

9:15–9:30; EGU2007-A-04280; NH11.04-1MO1O-004
Stecchi, F.; Antonellini, M.; Gabbianelli, G.
 A new methodology based on curvature analysis used to map subsidence-related hazard areas in the city of Tuzla (BiH)

9:30–9:45; EGU2007-A-01285; NH11.04-1MO1O-005
Foresti, L.; Kanevski, M.
 Neural networks and geostatistics for mapping of climatic data in mountainous regions (solicited)

9:45–10:00; EGU2007-A-00497; NH11.04-1MO1O-006
Nikolenko, S. I.; Pshenichny, C. A.
 Temporal modeling by means of an event bush (solicited)

10:00 COFFEE BREAK

Chairperson: IOVINE, G.

10:30–10:45; EGU2007-A-11270; NH11.04-1MO2O-001
Nsom, B.
 Rheological Modeling of the Open-channel Flow of Muddy Fluids (solicited)

10:45–11:00; EGU2007-A-05159; NH11.04-1MO2O-002
Paik, K.
 Non-dispersive flow path retrieval using a global search scheme

11:00–11:15; EGU2007-A-09043; NH11.04-1MO2O-003
Harig, S.; Androsov, A.; Behrens, J.; Braune, S.; Chaeroni, C.; Schröter, J.; Sein, D.; Sidorenko, D.; Taguchi, E.
 Tsunami modelling with unstructured grids (solicited)

11:15–11:30; EGU2007-A-03790; NH11.04-1MO2O-004
Meissner, C.; Schädler, G.; Kottmeier, C.
 High resolution regional climate simulation with the CLM

11:30–12:00; EGU2007-A-03193; NH11.04-1MO2O-005
Ishimine, Y.
 Three-dimensional numerical simulations of a pyroclastic surge over natural terrain (solicited)

12:00 LUNCH BREAK

Chairperson: BONAFEDE, M.

13:30–13:45; EGU2007-A-11561; NH11.04-1MO3O-001
Wen, A.H.; Tang, A.P.
 A GIS-based Simulation System of Seismic Disasters for Infrastructures in Urban Areas

13:45–14:00; EGU2007-A-02569; NH11.04-1MO3O-002
Piombo, A.; Dragoni, M.
 Thermoelastic deformation associated with a lava tube

14:00–14:15; EGU2007-A-03095; NH11.04-1MO3O-003
Delparte, D.; Waters, N.; Jamieson, B.
 Snow avalanche hazard mapping using Geographic Information Systems

14:15–14:30; EGU2007-A-03218; NH11.04-1MO3O-004
 Huang, H.P.; **Yang, K.C.;** Lai, S.W.
 Impact force of debris flow on filter dam (solicited)

14:30–15:00; EGU2007-A-02004; NH11.04-1MO3O-005
Di Baldassarre, G.; Castellarin, A.; Montanari, A.
 Flood-risk mapping: numerical analysis on the effects of a lateral weir (solicited)

15:00 COFFEE BREAK

Chairperson: DI BALDASSARRE, G.

15:30–15:45; EGU2007-A-11176; NH11.04-1MO4O-001
Muzy, A.; Innocenti, E.
 The Dynamic Structure Cellular Automata (DSCA): An innovative approach for the modeling and simulation of propagation phenomena

15:45–16:00; EGU2007-A-08189; NH11.04-1MO4O-002
 Georgoudas, I.G.; **Sirakoulis, G.Ch.;** Scordilis, E.M.; Andreadis, I.
 VLSI implementation perspectives of a two-dimensional cellular automata model for earthquake simulation

16:00–16:15; EGU2007-A-04201; NH11.04-1MO4O-003
 Avolio, M.V.; Crisci, G.M.; D'Ambrosio, D.; Di Gregorio, S.; Iovine, G.; Lupiano, V.; Niceforo, G.; **Rongo, R.;** Spataro, W.; EMPEDOCLES UNICAL - INGV CT - ITALY
 A Methodology for Lava Flows Hazard Zonation of Large Areas: An example of application to for the SE flank of Mt Etna

16:15–16:30; EGU2007-A-10230; NH11.04-1MO4O-004
Orlando, G.; Appraisal of damage and quali-quantitative risk as
 Appraisal of damage and quali-quantitative risk assessment in environmental disaster.

16:30–17:00; EGU2007-A-03297; NH11.04-1MO4O-005
Bonafede, M.; Maccaferri, F.
 Rock-fluid interaction in the preparatory stage of earthquakes. (solicited)

17:00 END OF SESSION

NH11.04 Modelling, computer-assisted simulations, and mapping of dangerous phenomena for hazard assessment – Posters

Convener: Iovine, G.
 Co-Convener(s): Sheridan, M., Di Gregorio, S.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: DI GREGORIO, S.

XY0418; EGU2007-A-00597; NH11.04-1MO5P-0418
Abbruzzese, J.M.; Salciarini, D.; Tamagnini, C.
 Finite element modelling of debris flow propagation

XY0419; EGU2007-A-00611; NH11.04-1MO5P-0419
Liu, cnl; Wu, ccw
 Mapping rainfall-induce landslide susceptibility by integrating GIS, slope stability analysis, and Monte Carlo simulations

XY0420; EGU2007-A-01116; NH11.04-1MO5P-0420
Iovine, G.; Spataro, W.; D'Ambrosio, D.; Lupiano, V.
 A model for predicting the spatial-temporal development of flow-type landslides

XY0421; EGU2007-A-01200; NH11.04-1MO5P-0421
ATTIA, R.; MANSOURI, T.; COLLINET, J.; ZANTE, P.; DRIDI, B.; AGREBAOUI, S.
 Modélisation de l'érosion en nappe sur le bassin versant du lac collinaire de Fidh Ali (Tunisie Centrale)

XY0422; EGU2007-A-01220; NH11.04-1MO5P-0422
Das, L
 Construction of downscaled climate change scenarios and an assessment of implication through a crop simulation model

XY0423; EGU2007-A-01357; NH11.04-1MO5P-0423
Morgounov, V.; Zdorov, A.
 Electromagnetic emission precursors of landslides, avalanches and earthquakes

XY0424; EGU2007-A-02776; NH11.04-1MO5P-0424
Pohlmann, H.; Greatbatch, R. J.
 Discontinuities in the late 1960's in different atmospheric data products

XY0425; EGU2007-A-02920; NH11.04-1MO5P-0425
Santini, S.; Tallarico, A.; Dragoni, M.
 Magma ascent and effusion from a tensile fracture propagating to the Earth's surface

XY0426; EGU2007-A-02948; NH11.04-1MO5P-0426
Bruno, D.E.; Calcaterra, D.; Parise, M.
 Spatially-distributed landslide susceptibility assessment in the Mucone catchment, Calabria, Italy

XY0427; EGU2007-A-03207; NH11.04-1MO5P-0427
Stancalie, G.; Craciunescu, V.; Fluerau, C.; Catana, S.
 Contribution of Earth Observation data to flood risk mapping

XY0428; EGU2007-A-03259; NH11.04-1MO5P-0428
Chen, C.H.; Wang, C.L.
 A fracture mechanics approach for the analysis of plane failure in rock slopes

XY0429; EGU2007-A-03457; NH11.04-1MO5P-0429
 Valerio, A.; **Tallarico, A.;** Dragoni, M.
 Mechanisms of formation of lava tubes

XY0430; EGU2007-A-03661; NH11.04-1MO5P-0430
Scotto di Santolo, A.; Evangelista, A.
 Dynamic numerical modeling of debris flows in the pyroclastic deposits of Campania region, Italy

XY0431; EGU2007-A-00666; NH11.04-1MO5P-0431
Ardalan, A.A.; Tourian, M.J
 Team

XY0432; EGU2007-A-04208; NH11.04-1MO5P-0432
 Avolio, M.V.; Crisci, G.M.; **Di Gregorio, S.;** Rongo, R.; Umeton, R.
 Introduction of more physical features in the Cellular Automata model for lava flows SCIARA: preliminary results regarding the viscosity

XY0433; EGU2007-A-04229; NH11.04-1MO5P-0433
El kadi Abderrezzak, K.; Paquier, A.
 Modelling of flash flood propagation in urban areas using 2-D hydraulic numerical models

XY0434; EGU2007-A-04317; NH11.04-1MO5P-0434
Jiménez, J.; Irigaray, C.; El Hamdouni, R.; Fernández, P.; Chacón, J.
 Building models for automatic landslide susceptibility analysis and mapping in ArcGIS.

XY0435; EGU2007-A-04336; NH11.04-1MO5P-0435
Ciraud, A.; Del Negro, C.; Herault, A.; Vicari, A.
 ﻿Near-real-time forecasting of lava flow hazards using the MAGFLOW cellular automata model during the 2006 Etna eruptions

XY0436; EGU2007-A-04514; NH11.04-1MO5P-0436
 Iovine, G.; **Petrucci, O.;** Polemio, M.; Rongo, R.; Lupino, V.
 A methodological approach for mapping mudflow potential through integrated Cellular Automata modelling, Genetic Algorithms, and GIS techniques, combined with historical and hydrological analyses of major past events. An example of application to the Bagnara-Scilla coastal sector (Calabria, Southern Italy).

XY0437; EGU2007-A-04603; NH11.04-1MO5P-0437
 Suleimani, E.; **Hansen, R.**
 Numerical modeling of submarine landslide-generated tsunamis for Alaska tsunami hazard assessment

XY0438; EGU2007-A-04955; NH11.04-1MO5P-0438
Grigoropoulos, K.N.; Feredinos, G.; Nastos, P.T.; Psiloglou, B.E.; Andritsis, R.; Founda, D.; Stefanopoulos, G.; Gerasopoulos, E.
 Comparison of PM10 loadings between North and South locations in Athens periphery and simultaneous monitoring and mapping at different bands of electromagnetic spectrum

XY0439; EGU2007-A-05842; NH11.04-1MO5P-0439
Li, H.-W.; Tsai, C.-H.; Lo, Y.-T.
 Numerical model of typhoon surge for flooding assessment on coast of Taiwan

XY0440; EGU2007-A-06704; NH11.04-1MO5P-0440
 Natale, L.; **Petaccia, G.;** Savi, F.; Zanotti, M.
 Mapping of flood risk prone areas: a comparison between different models and techniques

XY0441; EGU2007-A-07023; NH11.04-1MO5P-0441
Ginzburg, A.; Golitsyn, G
 Estimates of fast methane warming possibilities for 55 million years ago

XY0442; EGU2007-A-07095; NH11.04-1MO5P-0442
Scheuner, T.; McArdell, B. W.; Huggel, C.
 Comparison of a 2D dynamical model with an empirical GIS-based model for debris flow runout and varying DEM grid sizes

XY0443; EGU2007-A-08666; NH11.04-1MO5P-0443
Mastrolorenzo, G.; Pappalardo, L.; De Natale, G.; Troise, C.; Panizza, A.; Rossano, S
 Scenarios of future eruptions at Vesuvius

XY0444; EGU2007-A-08728; NH11.04-1MO5P-0444
 Chen, R.F.; **Chan, Y.C.;** Chang, K.J.; Lee, J.C.; Hsieh, Y.C.
 Characterization of active normal faulting using LiDAR-derived DTM and modeling of flood damages in the Jinshan area, northern Taiwan

XY0445; EGU2007-A-09335; NH11.04-1MO5P-0445
Crosta, G.B.; Imposimato, S.; Roddeman, D.
 Numerical modelling of entrainment/deposition of rock and debris-avalanches

XY0446; EGU2007-A-09424; NH11.04-1MO5P-0446
Calvo, B.; Savi, F.
 Real time flood forecasting of Tiber river in Rome

XY0447; EGU2007-A-09475; NH11.04-1MO5P-0447
Norini, G.; Aldighieri, B.; Bertino, E.; Comoglio, F.; Damiani, M.L.; Groppelli, G.
 Preliminary hazard map of the Southern Rift – Mount Etna (Italy)

XY0448; EGU2007-A-09602; NH11.04-1MO5P-0448
 Crosta, G.B.; Hungr, O.; **Sosio, R.;** Frattini, P.
 Dynamic analysis of the Thurwieser rock avalanche, Italian Alps

XY0449; EGU2007-A-11535; NH11.04-1MO5P-0449
Pavan, S.; Schippa, L.
 Flood Propagation and Breach Evolution Coupled Model

XY0450; EGU2007-A-10428; NH11.04-1MO5P-0450
Lasaponara, R.; Lanorte, A.
 Satellite-based Fuel type Mapping using neural nets

XY0451; EGU2007-A-10480; NH11.04-1MO5P-0451
Angelova, D.
 Environmental cartographic models for the region of Varna paleoseismic phenomena (Bulgaria) for hazards assessment

XY0452; EGU2007-A-10929; NH11.04-1MO5P-0452
Yan, J.; Wang, J.; Jiang, N. Q.; Sun, D. P.; Li, H. C.
 The sediment carrying capacity in the medium flood river channel of Lower Yellow River

XY0453; EGU2007-A-11120; NH11.04-1MO5P-0453
Piegari, EP; Cataudella, VC; Di Maio, RDM; Milano, LM; Nicodemi, MN
 A cellular automaton for the factor of safety field in landslides modeling

XY0454; EGU2007-A-11201; NH11.04-1MO5P-0454
Meyenfeld, H.; Glade, T.
 Calculating Factor of Safety for Regional Slope Stability Maps

Nonlinear Processes in Geosciences

NP2.01 ENSO: dynamics, predictability and response to climate change (co-listed in CL & OS)

Convener: Timmermann, A.
 Co-Convener(s): Jin, F., Guilyardi, E.
 Lecture Room 3
 Chairperson: N.N.

13:30–13:45; EGU2007-A-09860; NP2.01-1MO3O-001
Jin, F.-F.; Lin, L.; Timmermann, A.; Zhao, J.
 Ensemble-mean dynamics of the ENSO recharge oscillator under state-dependent stochastic forcing

13:45–14:00; EGU2007-A-09163; NP2.01-1MO3O-002
Gebbie, G.; Tziperman, E.
 The impact of ocean-modulated westerly wind bursts on ENSO prediction (solicited)

14:00–14:15; EGU2007-A-08149; NP2.01-1MO3O-003
Toniazio, T.; Inness, PM; Slingo, JM
 Coupled Model Sensitivity of the ENSO to Forcing by Westerly Wind Bursts.

14:15–14:30; EGU2007-A-05814; NP2.01-1MO3O-004
Yeh, S.-W.; Kirtman, B.
 Tropical internal atmospheric variability and ENSO

14:30–14:45; EGU2007-A-02451; NP2.01-1MO3O-005
McPhaden, M J.; Zhang, X.; Hendon, H H; Wheeler, M C
 Large scale dynamics and MJO forcing of ENSO variability

14:45–15:00; EGU2007-A-01969; NP2.01-1MO3O-006
DEWITTE, B.; Bel Madani, A.; An, S.-I.
 Interaction between near-annual and ENSO modes in the Coupled Model Intercomparison Project simulations (solicited)

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-01907; NP2.01-1MO4O-001
Guilyardi, E.; Kolasinski, M.; Braconnot, P.; Li, T.; Slingo, J.
 On the role of the atmosphere GCM in modelled El Niño errors

15:45–16:00; EGU2007-A-03177; NP2.01-1MO4O-002
An, SI
 Why El Nino is stronger than La Nina?

16:00–16:15; EGU2007-A-08409; NP2.01-1MO4O-003
Ballabrera, J.; Murtugudde, R.; Zang, R.H.; Busalacchi, A.J.
 Does Chlorophyll affect ENSO predictions?

16:15–16:30; EGU2007-A-05523; NP2.01-1MO4O-004
Dorin, J.N.; Tuttle, B.C.; Keller, K.
 Testing for anthropogenic ENSO modulation using millennial-scale paleo-observations

16:30–16:45; EGU2007-A-09986; NP2.01-1MO4O-005
Leloup, J.; Lengaigne, M.; Boulanger, J.P.
 Twentieth century ENSO characteristics in the IPCC database

16:45–17:00; EGU2007-A-11098; NP2.01-1MO4O-006
OrtizBeviá, M.J.; AlvarezGarcía, F.J.; CabosNarváez, W.D.
 Changes in ENSO predictability in IPCC coupled climate simulations

17:00 END OF SESSION

NP2.03 Nonlinear low-frequency variability in atmosphere, ocean and the climate system (co-listed in CL & OS)

Convener: Dethloff, K.
 Co-Convener(s): Dijkstra, H., Crommelin, D.
 Lecture Room 3
 Chairperson: DETHLOFF, K.

17:30–17:45; EGU2007-A-09787; NP2.03-1MO5O-001
Swanson, K.
 Planetary-scale organization of atmospheric wave/mean flow interaction (solicited)

17:45–18:00; EGU2007-A-05947; NP2.03-1MO5O-002
Primeau, F
 Elongation and contraction of the western boundary current extension in a shallow-water model: a bifurcation analysis (solicited)

18:00–18:15; EGU2007-A-08600; NP2.03-1MO5O-003
Weisheimer, A.; Doblas-Reyes, F.J.; Palmer, T.N.; Berner, J.
 Seasonal-to-decadal probabilistic forecasts in the ENSEMBLES project (solicited)

18:15–18:30; EGU2007-A-02539; NP2.03-1MO5O-004
Franzke, C.; Crommelin, D.T.; Fischer, A.; Majda, A.J.
 A Hidden Markov Model perspective on regimes and metastability in atmospheric flow

18:30–18:45; EGU2007-A-10354; NP2.03-1MO5O-005
Bouchet, F.; Simonnet, E.; Gallaire, F.
 Stochastic perturbation of inertial solutions of 2-D Quasi-Geostrophic and related models

18:45–19:00; EGU2007-A-07719; NP2.03-1MO5O-006
Chandrasekaran, K.; Orgis, Th.; Schwarz, U.; Kurths, J.; Brand, S.; Dethloff, K.
 Recurrence plots for investigation of nonlinear low frequency variability in atmosphere

19:00 END OF SESSION

NP3.01 Scale, scaling and nonlinear variability in aquatic biogeosystems (co-listed in BG & OS)

Convener: Schmitt, F.
 Co-Convener(s): Nikora, V.
 Lecture Room 22
 Chairperson: NIKORA, V.

8:30–8:45; EGU2007-A-00483; NP3.01-1MO1O-001
Uttieri, M.; Cianelli, D.; Strickler, J. R.; Zambianchi, E.
 On the relationship between fractal dimension and encounters in three dimensional trajectories

8:45–9:00; EGU2007-A-04467; NP3.01-1MO1O-002
Moison, M.; Schmitt, F.; Seuront, L.; Souissi, S.
 Statistical analysis of copepod (*Temora longicornis*) swimming behaviour and trajectories and their environmental forcings

9:00–9:15; EGU2007-A-03391; NP3.01-1MO1O-003
Schlüter, M.; Merico, A.; Wiltshire, K.; Greve, W.; von Storch, H.
 Investigating environmental changes in the German Bight: a combined statistical assessment of climatic and biological long-term time-series.

9:15 END OF SESSION

NP3.02 Scale, Scaling, nonlinear variability and turbulent structures in oceans, atmosphere and the climate (co-listed in AS, BG, CL & OS)

Convener: Lovejoy, S.
 Co-Convener(s): Tuck, A., Falkovich, G., Barros, A.
 Lecture Room 22
 Chairperson: LOVEJOY, S.

9:15–9:30; EGU2007-A-00929; NP3.02-1MO1O-004
Felici, M.; Lucarini, V.; Speranza, A.; **Vitolo, R**
 Statistical trend in the extreme values of total energy in a model of the baroclinic jet

9:30–9:45; EGU2007-A-01182; NP3.02-1MO1O-005
Falkovich, G
 Statistics of fronts in 2d turbulence

9:45–10:00; EGU2007-A-01449; NP3.02-1MO1O-006
Kartashova, E.; L'vov, V.
 Intra-seasonal oscillations as nonlinear planetary wave interactions

10:00 COFFEE BREAK

Chairperson: FALKOVICH, G.

10:30–10:45; EGU2007-A-04065; NP3.02-1MO2O-001
Venema, V.; Rust, H.W.; Bachner, S.; Simmer, C.
 Statistical characteristics of surrogate data based on geophysical measurements

10:45–11:00; EGU2007-A-04184; NP3.02-1MO2O-002
Seiffert, R.; von Storch, J.-S.
 Impact of atmospheric small-scale fluctuations on climate sensitivity

11:00–11:15; EGU2007-A-04461; NP3.02-1MO2O-003
Bec, J.; Chetrite, R.
 A phenomenological model for the preferential concentration of heavy particles in turbulent flows (solicited)

11:15–11:30; EGU2007-A-04719; NP3.02-1MO2O-004
Kundu, P.K.; Siddani, R.K.
 Multiscaling and log-infinite divisibility in space-time averaged rainfall

11:30–11:45; EGU2007-A-11405; NP3.02-1MO2O-005
Strawbridge, K.; Lovejoy, S.; Radkevitch, A.; Stolle, J.; Schertzer, D.
 Lidar as a passive scalar: understanding a highly variable and complex atmosphere (solicited)

11:45–12:00; EGU2007-A-06018; NP3.02-1MO2O-006
Schmitt, F. G.; Seuront, L.
 Multifractal properties of high frequency incident light fluctuations

12:00 END OF SESSION

NP3.03 Scaling, subgrid models, downscaling and parameterization

Convener: Parlange, M.
 Co-Convener(s): de Lima, I., Meneveau, C., Tribbia, J.
 Lecture Room 22
 Chairperson: PARLANGE, M.

13:30–13:45; EGU2007-A-08188; NP3.03-1MO3O-001
Rinaldo, A.
 Scaling in ecosystems and the linkage of macroecological laws (solicited)

13:45–14:00; EGU2007-A-08346; NP3.03-1MO3O-002
Schaaake, J
 Preprocessing atmospheric precipitation forecasts to produce ensemble forcing for US NWS hydrologic forecasts

14:00–14:15; EGU2007-A-10584; NP3.03-1MO3O-003
Ngan, K.; Bartello, P.; Straub, D.N.
 Dissipation of synoptic-scale flow by small-scale turbulence

14:15–14:30; EGU2007-A-10529; NP3.03-1MO3O-004
Wever, N.; Lehning, M.; Clifton, A.
 Upscaling wind tunnel observation of drifting snow sublimation to the mountain range scale

14:30–14:45; EGU2007-A-10079; NP3.03-1MO3O-005
Chamorro, L.; Porte-Agel, F.
 Laboratory study of surface boundary conditions for LES over a rough to-smooth transition

14:45–15:00; EGU2007-A-05855; NP3.03-1MO3O-006
Warner, T.; Hahmann, A.; Rostkier-Edelstein, D.; Swerdlin, S.; Vandenberghe, F.
 The use of the MM5 and WRF models for climate downscaling:

15:00 END OF SESSION

NP3.04 Geophysical extremes: Scaling aspects and modern statistical approaches

Convener: Cârsteanu, A.
 Co-Convener(s): Tchiguirinskaia, I., Bunde, A., Koutsoyianis, D.
 Lecture Room 22
 Chairperson: CARSTEANU, A.A.

15:30–16:00; EGU2007-A-10555; NP3.04-1MO4O-001
Malamud, B. D.
 Tails of natural hazards: Implications for ecology, erosion, and risk (solicited)

16:00–16:30; EGU2007-A-11508; NP3.04-1MO4O-002
Christakos, G.
 Dealing with spatiotemporal heterogeneity: The GBME model (solicited)

16:30–16:45; EGU2007-A-07070; NP3.04-1MO4O-003
de Lima, MIP
 Multifractal analysis of river discharge extremes

16:45–17:00; EGU2007-A-03079; NP3.04-1MO4O-004
Langousis, A.; Veneziano, D.; Lepore, C.; Furcolo, P.
 Simple IDF Estimation Under Multifractality

17:00 END OF SESSION

NP3.05 Uncertainty, Random Dynamical Systems and Stochastic Modeling in Geophysics

Convener: Pavlyukevich, I.
Co-Convener(s): Schertzer, D., Nadiga, B.
Lecture Room 22
Chairperson: N.N.

17:30–17:45; EGU2007-A-01196; NP3.05-1MO5O-001
Li, J.; Ding, R.

A new theory on predictability: Nonlinear error growth dynamics

17:45–18:00; EGU2007-A-04710; NP3.05-1MO5O-002
Birnir, B.; Smith, T.; Hernandez, J.; Putkaradze, V.; Mertens, K.; Vorbieff, P.; Bertozzi, A.; Welsh, E.
Stochastic Theory of Surface Erosion and River Meanders

18:00–18:15; EGU2007-A-05365; NP3.05-1MO5O-003
Jakubiak, B.; Brojewski, R.
Square root ensemble filters for data assimilation

18:15–18:30; EGU2007-A-11650; NP3.05-1MO5O-004
Jánosi, I.M.; Gyüre, B.; Bartos, I.
Nonlinear statistics of daily temperature fluctuations: Empirical studies and laboratory experiments

18:30–18:45; EGU2007-A-01956; NP3.05-1MO5O-005
Ditlevsen, P.
Observation of alpha-stable noise in an ice-core record

18:45–19:00; EGU2007-A-06412; NP3.05-1MO5O-006
Pavlyukevich, I.
Levy flights with variable stability index

19:00 END OF SESSION

Ocean Sciences

OS1 Open session on large scale ocean circulation variability (co-listed CL, BG) (including Fridjof Nansen Medal Lecture)

Convener: Meinen, C.
Co-Convener(s): Naveira Garabato, A.
Lecture Room D
Chairperson: N.N.

8:30–8:45; EGU2007-A-02078; OS1-1MO1O-001
Qiu, B.; Schneider, N.; Chen, S.
Coupled Decadal Variability in the North Pacific Ocean: Observations and Theory

8:45–9:00; EGU2007-A-09507; OS1-1MO1O-002
Schneider, N.; Qiu, B.; Sasaki, H.
Kuroshio Large Meander Evolution simulated by an Eddy-Resolving Ocean Model

9:00–9:15; EGU2007-A-08991; OS1-1MO1O-003
de Ruijter, W.; Schouten, M.; Ridderinkhof, H.
Interannual variability in the Mozambique Channel

9:15–9:30; EGU2007-A-00631; OS1-1MO1O-004
Casal, T.; Beal, L.; Lumpkin, R.
Variability of water properties, heat and salt fluxes in the Agulhas Current System during the Agulhas Undercurrent Experiment

9:30–9:45; EGU2007-A-05235; OS1-1MO1O-005
Heywood, K.J.; Stevens, D.P.
Meridional heat transport across the Antarctic Circumpolar Current by the Antarctic Bottom Water overturning cell

9:45–10:00; EGU2007-A-02473; OS1-1MO1O-006
Aoki, S.

Recent freshening of the antarctic bottom water in the australian-antarctic basin (solicited)

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–11:15; EGU2007-A-11478; OS1-1MO2O-001
Pinardi, N.

The Mediterranean Sea ocean variability and operational oceanography: a science based approach for sustainable development of marine and coastal areas (Fridjof Nansen Medal Lecture) (solicited)

11:15–11:30; EGU2007-A-03035; OS1-1MO2O-002
Peliz, A.; Dubert, J.; Teles-Macahdo, A.
On the Eastern forcing of the Azores Current

11:30–11:45; EGU2007-A-00700; OS1-1MO2O-003
Jullion, L.; Heywood, K.J.; Naveira Garabato, A.C.; Stevens, D.P.
Modification and formation of mode and intermediate water in the Brazil-Malvinas confluence diagnosed by a box inverse model

11:45–12:00; EGU2007-A-03330; OS1-1MO2O-004
Kirchner, K.; Rhein, M.; Mertens, C.; Böning, C.W.; Hüttel, S.
Observed and modeled MOC related flow into the Caribbean

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2007-A-01566; OS1-1MO3O-001
Curry, W.; Marchal, O.; Wunsch, C.; Huybers, P.
Atlantic ocean circulation during the Last Glacial Maximum: What do we know?

13:45–14:00; EGU2007-A-05521; OS1-1MO3O-002
Baehr, J.; Haak, H.; Alderson, S.; Cunningham, S. A.; Jungclauss, J. H.; Marotzke, J.
Timely detection of changes in the meridional overturning circulation at 26N in the Atlantic (solicited)

14:00–14:15; EGU2007-A-07106; OS1-1MO3O-003
Cunningham, S.; Kanzow, T.; Bryden, H.
Temporal variability of the Atlantic Meridional Overturning at 25°N

14:15–14:30; EGU2007-A-07119; OS1-1MO3O-004
Kanzow, T.; Cunningham, S.; Rayner, D.; Hirschi, J.; Johns, W.E.; Baringer, M.; Bryden, H.; Beal, L.; Meinen, C.; Marotzke, J.
Flow compensation associated with the meridional overturning circulation

14:30–14:45; EGU2007-A-09581; OS1-1MO3O-005
Mujahid, A.; Kanzow, T.; Bryden, H.L.
Features in the vertical structure of the meridional flow field over the continental rise east of Abaco, the Bahamas.

14:45–15:00; EGU2007-A-10626; OS1-1MO3O-006
Johns, B.; Beal, L.; Baringer, M.; Molina, J.; Cunningham, S.; Kanzow, T.
Variability of shallow and deep western boundary currents off the Bahamas during 2004-2005: First results from the 26° N RAPID-MOC array

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-01790; OS1-1MO4O-001
Brambilla, E.; Talley, L. D.; Robbins, P. E.
 Subpolar Mode Water in the northeastern Atlantic: origin and transformation

15:45–16:00; EGU2007-A-04661; OS1-1MO4O-002
Schott, F.A.
 Circulation and Deep Water export of the subpolar North Atlantic during the past decade (solicited)

16:00–16:15; EGU2007-A-10192; OS1-1MO4O-003
Gourcuff, C; Lherminier, P; Mercier, H; Kermabon, C
 Heat and mass transports in North Atlantic in summer 1997, 2002, 2004 and 2006 calculated across Ovide section

16:15–16:30; EGU2007-A-06144; OS1-1MO4O-004
Hüttl, S.; Böning, C. W.
 Interannual to interdecadal variability in the upper-layer tropical Atlantic

16:30–16:45; EGU2007-A-01123; OS1-1MO4O-005
Guemas, V.; Salas-Méla, D.
 Variability of the Atlantic meridional overturning circulation in an atmosphere-ocean global coupled model

16:45–17:00; EGU2007-A-01096; OS1-1MO4O-006
Grist, J. P.; Josey, S. A.; Sinha, B.
 The Impact on the Ocean of Extreme Greenland Sea Heat Loss in HadCM3

17:00 END OF SESSION

OS1 Open session on large scale ocean circulation variability (co-listed CL, BG) (including Fridjof Nansen Medal Lecture) – Posters

Convener: Meinen, C.
 Co-Convener(s): Naveira Garabato, A.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0455; EGU2007-A-09745; OS1-1MO5P-0455
Brodeau, L.; Barnier, B.; Treguier, A.M.; Penduff, T.; Molines, J.M.; Gulev, S.
 Comparing surface atmospheric variables from ERA40 and CORE as drivers of OGCMs for the period 1958 to 2004

XY0456; EGU2007-A-03195; OS1-1MO5P-0456
Penduff, T.; Juza, M.; Barnier, B.
 Comparing sea-surface topography modes of variability from altimetry and from DRAKKAR models

XY0457; EGU2007-A-09607; OS1-1MO5P-0457
Barnier, B.; Penduff, T.; Molines, J.M.; Treguier, A.M.; Biastoch, A.; Madec, G.; Böning, C.
 Mean circulations and variability between 1958 and 2004 as simulated by the DAKKAR eddy permitting 1/4° global ocean/sea ice model driven by CORE or ERA40 atmospheric forcing

XY0458; EGU2007-A-04027; OS1-1MO5P-0458
JUZA, M.; PENDUFF, T.; BARNIER, B.
 Assessment of DRAKKAR global simulations against altimetry and hydrography: Methods and results.

XY0459; EGU2007-A-03881; OS1-1MO5P-0459
Lecointre, A.; Penduff, T.; Cipollini, P.
 Characteristics of planetary waves in the North Atlantic from altimetry and the Clipper 1/6° model

XY0460; EGU2007-A-10239; OS1-1MO5P-0460
Lherminier, P.; Gourcuff, C; Mercier, H
 Using altimetry combined with hydrographic data to estimate transports across North Atlantic zonal sections

XY0461; EGU2007-A-06058; OS1-1MO5P-0461
Park, Y.-G.
 Dependence of tracer injection on the horizontal resolution in thermally driven circulations

XY0462; EGU2007-A-03956; OS1-1MO5P-0462
Bozec, A.; Chassignet, E.; Halliwell, G.
 Impact of the Mediterranean Outflow on the circulation of the Atlantic Ocean

XY0463; EGU2007-A-01869; OS1-1MO5P-0463
Marzeion, B.; Levermann, A.; Mignot, J.
 Stratification-dependent mixing decreases the stability of the Atlantic Overturning in a coupled climate model

XY0464; EGU2007-A-09574; OS1-1MO5P-0464
Haak, H.; Baehr, J.; Jungclauss, J.; Cunningham, S.A.; Marotzke, J.
 Observed and simulated daily to seasonal MOC variability at 26N in the Atlantic

XY0465; EGU2007-A-08522; OS1-1MO5P-0465
Montoya, M.; Levermann, A.; Mignot, J.
 Sensitivity of the oceanic heat transport to the strength of the Atlantic overturning circulation

XY0466; EGU2007-A-00524; OS1-1MO5P-0466
Kling, H.; Nilsson, J.
 Interbasin Heat Exchange; a Study of the Response to Changes in Wind Patterns

XY0467; EGU2007-A-08448; OS1-1MO5P-0467
Wählin, A. K.; Cenedese, C.
 How entraining density currents influence the stratification in a one-dimensional ocean basin

XY0468; EGU2007-A-08545; OS1-1MO5P-0468
Hansen, B.; Østerhus, S.; Quadfasel, D.
 Faroe Bank Channel overflow 1995 - 2005

XY0469; EGU2007-A-04564; OS1-1MO5P-0469
von Appen, W.-J.; Bower, A. S.
 Interannual Variability in the Pathways of the North Atlantic Current over the Mid-Atlantic Ridge

XY0470; EGU2007-A-01817; OS1-1MO5P-0470
Meinen, C. S.; Luther, D. S.; Baringer, M. O.
 Evolution of the Gulf Stream structure, transport, and vertical coherence from the Straits of Florida to the Southeast Newfoundland Ridge

XY0471; EGU2007-A-03869; OS1-1MO5P-0471
Rhein, M.; Kieke, D.; Steinfeldt, R.; **Kirchner, K.**
 Ventilation of Upper Labrador Sea Water, 2003-2005

XY0472; EGU2007-A-04828; OS1-1MO5P-0472
Richter, K.; Furevik, T.
 Spin-up of the Nordic Seas ocean circulation by an applied wind stress

XY0473; EGU2007-A-01951; OS1-1MO5P-0473
Hernández-Guerra, A.; Joyce, T.M.; Fraile-Nuez, E.; Vélez-Belchí, P.
 Using Argo data to investigate the Meridional Overturning Circulation in the North Atlantic

XY0474; EGU2007-A-08575; OS1-1MO5P-0474
Mourre, B.; Ballabrera, J.; García-Ladona, E.; Kalaroni, S.; Font, J.
 Argo observations in support of SSS modeling efforts in the perspective of SMOS data exploitation

XY0475; EGU2007-A-05888; OS1-1MO5P-0475

Ivanov, L.M.; Melnichenko, O.V.

Argo floats detect long Rossby waves and rapid current reversals in the North Atlantic (cancelled)

XY0476; EGU2007-A-05864; OS1-1MO5P-0476

Ivanov, L.M.; Melnichenko, O.V.

Variability of the mid-depth North Atlantic circulation reconstructed from Argo data

XY0477; EGU2007-A-09518; OS1-1MO5P-0477

Naveira Garabato, A. C.; Gille, S. T.

Augmentation of box inverse models with float velocity measurements

XY0478; EGU2007-A-05668; OS1-1MO5P-0478

Demidov, A.N.; Dobrolyubov, S.A.; Morozov, E.G.

Temporal variability of the bottom waters properties in the Vema Channel

XY0479; EGU2007-A-02443; OS1-1MO5P-0479

Weijer, W.; Vivier, F.; Gille, S. T.; Dijkstra, H. A.

Multiple oscillatory modes of the Argentine Basin

XY0480; EGU2007-A-03626; OS1-1MO5P-0480

Legeais, J.F.; Ollitrault, M.; Arhan, M.

Characterization of the Intermediate Western Boundary Current along the Brazilian continental slope using subsurface lagrangian floats

XY0481; EGU2007-A-03476; OS1-1MO5P-0481

van Sebille, E.; de Ruijter, WPM; van Leeuwen, PJ; Vossepoel, FC

Sensitivity of the Agulhas recirculation to wind stress changes

XY0482; EGU2007-A-08176; OS1-1MO5P-0482

Palastanga, V.; **de Ruijter, W.P.M.;** Dijkstra, H.A.; van Leeuwen, P.J.

Response of the Mozambique Channel transport to different wind stress fields

XY0483; EGU2007-A-04253; OS1-1MO5P-0483

Van Leeuwen, P.J.; Frankhuizen, K.T.

The evolution of cyclonic Agulhas Eddies

XY0484; EGU2007-A-07792; OS1-1MO5P-0484

Kolodziejczyk, K.; Bourlès, B

Seasonal analysis of the Equatorial Undercurrent at 10°W

XY0485; EGU2007-A-06119; OS1-1MO5P-0485

Hüttl, S.; Böning, C. W.

Sources and fate of the off-equatorial undercurrents in the Atlantic Ocean

XY0486; EGU2007-A-05228; OS1-1MO5P-0486

Singhruck, P.; **Heywood, K.J.;** Matthews, A.J.

Oceanic response to the Madden-Julian Oscillation as observed by Argo

XY0487; EGU2007-A-02791; OS1-1MO5P-0487

Lübbecke, J. F.; Biastoch, A.; Böning, C. W.

Decadal Near Surface Temperature Variability in the Tropical Pacific in a Global Ocean Model Hierarchy

XY0488; EGU2007-A-02775; OS1-1MO5P-0488

Lübbecke, J. F.; Döös, K.

Lagrangian Trajectory Analysis of the Pacific Subtropical Cell

XY0489; EGU2007-A-04820; OS1-1MO5P-0489

Stanichny, S.; Ratner, Yu.; Soloviev, D.; Stanichnaya, R.

"Tropical" atmospheric cyclone in the Western part of the Black Sea

XY0490; EGU2007-A-04619; OS1-1MO5P-0490

Villanueva, E. E.; Mendoza, V. M.; Adem, J.

Modelation of oceanic thermal response to hurricane in the Gulf of Mexico

XY0491; EGU2007-A-02933; OS1-1MO5P-0491

deCastro, M.; Gómez-Gesteira, M.; **Alvarez, I.;** Cabanas, J. M.; Prego, R.

Dependence of fall-winter upwelling recurrence along the Galician western coast on atmospheric forcing

XY0492; EGU2007-A-04578; OS1-1MO5P-0492

Horton, C.; Clifford, M.

High resolution modeling of the South China Sea during the fall and winter of 2006-7

XY0493; EGU2007-A-02909; OS1-1MO5P-0493

Diansky, N. A.; Zalesny, V. B.; Moshonkin, S. N.; Rusakov, A. S.

High resolution modeling of the monsoon circulation in the Indian Ocean

XY0494; EGU2007-A-04442; OS1-1MO5P-0494

Wilson, A.; Prikasky, I.; Radko, T.

Fluxes and structures in diffusive convection

XY0495; EGU2007-A-11312; OS1-1MO5P-0495

Polzin, K.; Arbic, B.; Scott, R.

Mesoscale eddy - internal wave coupling and closure of the thermocline circulation (cancelled)

XY0496; EGU2007-A-04143; OS1-1MO5P-0496

Nilsson, J.; Walin, G.; Broström, G.

Thermohaline circulation induced by bottom friction in sloping-boundary basins

XY0497; EGU2007-A-07025; OS1-1MO5P-0497

Nøst, O. A.; **Nilsson, J.;** Nycander, J.

On the asymmetry between cyclonic and anticyclonic flow in basins with sloping boundaries

XY0498; EGU2007-A-07344; OS1-1MO5P-0498

Le Sommer, J.; Madec, G.; England, M.

Diagnosing neutral density and its associated Ertel's potential vorticity in ocean climate models.

XY0499; EGU2007-A-10942; OS1-1MO5P-0499

de Boyer Montegut, C.; Mignot, J.; Lazar, A.; Cravatte, S.

Control of salinity on the mixed layer depth in the world ocean

XY0500; EGU2007-A-08145; OS1-1MO5P-0500

Ballabrera, J.; Mourre, B.; Garcia-Ladona, E.; Font, J.; Kalaroni, S.

Modeling salinity profiles from temperature using cluster analysis and neural networks derived from Argo data

XY0501; EGU2007-A-07856; OS1-1MO5P-0501

Friedrich, T.; Oschlies, A.; Eden, C.

Neural-network based mapping of O₂ and pCO₂ from simulated float and remote sensing data generated by an eddy-resolving North Atlantic model

XY0502; EGU2007-A-08405; OS1-1MO5P-0502

Barbero-Muñoz, L.; Alvarez, M.; González-Dávila, M.; Santana-Casiano, J.M.

Water mass contributions to carbon transports in the Eastern North Atlantic during 2001

XY0503; EGU2007-A-02202; OS1-1MO5P-0503

Venables, H.; Pollard, R.; Popova, E.; Moore, C.

Physical controls on the location and initiation of a regular phytoplankton bloom north of the Crozet Plateau, Southern Ocean

OS3 Ocean Tracers and Anthropogenic CO₂ (co-listed in BG & CL) – Posters

Convener: Schlosser, P.

Co-Convener(s): Wallace, D., GRUBER, N.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0504; EGU2007-A-01994; OS3-1MO5P-0504

Schneider, J.G.; Schlitzer, R.

Seasonal Air-Sea CO₂ Fluxes in a Global Ocean Inverse Model

XY0505; EGU2007-A-03579; OS3-1MO5P-0505

Assmann, K.M.; Heinze, C.; Bentsen, M.; Drange, H.; Sturm, K.

Excess carbon in an isopycnal ocean carbon cycle model

XY0506; EGU2007-A-03791; OS3-1MO5P-0506

Azouzi, L.; Ito Gonçalves, R.; Touratier, F.; Goyet, C.

Anthropogenic carbon in the eastern South Pacific Ocean.

XY0507; EGU2007-A-03912; OS3-1MO5P-0507

Steinfeldt, R.; Rhein, M.; Tanhua, T.; **Huhn, O.**

Inventory changes of anthropogenic carbon in the Atlantic between 20°S and 65°N

XY0508; EGU2007-A-04900; OS3-1MO5P-0508

Gerber, M.; Müller, S.A.; Joos, F.

Uptake of Anthropogenic CO₂ in the Bern3D Ocean Model: Results from an Ensemble Kalman Filtering Approach

XY0509; EGU2007-A-05915; OS3-1MO5P-0509

Murata, A.; Kumamoto, Y.; Sasaki, K.; Watanabe, S.; Fukasawa, M.

Decadal increases of anthropogenic CO₂ in the South Atlantic subtropical ocean along 30S

XY0510; EGU2007-A-05973; OS3-1MO5P-0510

Wakita, M.; Watanabe, S.; Honda, M.; Murata, A.; Tsunashima, N.; Kumamoto, Y.; Kawakami, H.

Temporal variation of dissolved inorganic carbon in the subsurface water of the western North Pacific subarctic region

XY0511; EGU2007-A-07098; OS3-1MO5P-0511

Nakano, Y.; Fujiki, T.; Watanabe, S.

Development of drifting buoy system with in situ sea surface pCO₂ sensor for long term observation

XY0512; EGU2007-A-08419; OS3-1MO5P-0512

Langone, L.; Ori, C.; Lenaz, R.; Longinelli, A.; Giovanelli, G.; Ravegnani, F.; Giglio, F.

Growth-rate of atmospheric CO₂ and $\delta^{13}C$ measured along oceanic routes between Italy and Antarctica

XY0513; EGU2007-A-08779; OS3-1MO5P-0513

Brown, P.; Schuster, U.; Watson, A.; Cunningham, S.; McDonagh, E.

Variability of accumulation and storage of anthropogenic carbon dioxide in the subtropical North Atlantic

XY0514; EGU2007-A-08851; OS3-1MO5P-0514

van Heuven, S.; Zemmelen, H.; van Aken, H.; de Baar, H.; Wallace, D.

Anthropogenic Carbon along a North Atlantic Transect

XY0515; EGU2007-A-08865; OS3-1MO5P-0515

Henry-Edwards, A. G.; Karstensen, J.; Schneider, B.

A comparison of two inverse mixing analysis methods for the determination of anthropogenic carbon

XY0516; EGU2007-A-02852; OS3-1MO5P-0516

Kobayashi, T.; Suga, T.; Shikama, N.

Negative bias of dissolved oxygen measurements by profiling floats

XY0517; EGU2007-A-03037; OS3-1MO5P-0517

Kobayashi, T.

Quality control of dissolved oxygen data measured by profiling floats: a preliminary result based on historical data

XY0518; EGU2007-A-03846; OS3-1MO5P-0518

Touratier, F.; Taalba, A.; Goyet, C.; **Azouzi, L.**

Impact of the EMT event on the distribution of anthropogenic carbon throughout the Mediterranean Sea.

XY0519; EGU2007-A-05121; OS3-1MO5P-0519

Sasaki, K.; Watanabe, S.; Wakita, M.; Tanaka, S.; Fukasawa, M.

Distributions of Chlorofluorocarbons in South Atlantic and Indian Oceans in 2003.

XY0520; EGU2007-A-05410; OS3-1MO5P-0520

Louarn, E.; Morin, P.; Mercier, H.; Le Corre, P.

Interannual variability in the North Atlantic circulation inferred from transient tracers between 2002 and 2006.

XY0521; EGU2007-A-05690; OS3-1MO5P-0521

Winckler, G.; Newton, R.; Schlosser, P.

Evidence of a hydrothermal plume in the Pacific Sector of the Southern Ocean

XY0522; EGU2007-A-08963; OS3-1MO5P-0522

Kvaleberg, E.; **Haine, T.;** Waugh, D.

Spreading of CFC-11 in the subpolar North Atlantic Ocean

XY0523; EGU2007-A-09502; OS3-1MO5P-0523

Tanhua, T.; Waugh, D.W.; Wallace, D.W.R.

On the use of SF₆ for estimation of anthropogenic CO₂ in the upper ocean.

XY0524; EGU2007-A-01316; OS3-1MO5P-0524

Pohl, C.; Hennings, U.; Rudgers v. d. Loeff, M.; Croot, P.; Budeus, G.

Trace metal (Hg, Pb, Cd, Cu, Ni, Mn, Fe, Co) distribution in Eastern-Atlantic surface waters. Reflection of natural and anthropogenic sources by comparing data from 1990 and 2005

OS4 Operational Oceanography: Skill Assessment and Error Analysis (co-listed GI, NP) – Posters

Convener: Proctor, R.

Co-Convener(s): Bertino, L., Coelho, E.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0525; EGU2007-A-07043; OS4-1MO5P-0525

Sotillo, M.G.; Alvarez-Fanjul, E.; Jordi, A.; Ferrer, M. I.; Tintore, J.; Conde, J.

The ESEOO regional ocean forecast system: A new Spanish operational oceanographic tool

XY0526; EGU2007-A-01361; OS4-1MO5P-0526

Canal, L.; Mason, E.; Sangrà, P.; Grisolia-Santos, D.

Ocean circulation modelling in the Canary Archipelago within the ESEOO project framework

XY0527; EGU2007-A-09384; OS4-1MO5P-0527

Le Hénaff, M.; De Mey, P.; Le Traon, P.-Y.; Marsaleix, P.

Description of baroclinic model errors due to wind perturbations in the Bay of Biscay- Evaluation of observation networks

XY0528; EGU2007-A-09979; OS4-1MO5P-0528

Riflet, G.; Leitão, P.C.; Trancoso, A. R.; Canas, A.; Fernandes, L.; Fernandes, R.; Garcia, A.C.; Mateus, M.; Neves, R.J.

Assessing the quality of a pre-operational model for the portuguese coast

XY0529; EGU2007-A-10957; OS4-1MO5P-0529
Wikle, C.; Dobricic, S.; Berliner, L.; Pinardi, N.; Milliff, R.
A Bayesian hierarchical model for error covariance in the
Mediterranean Forecast System

XY0530; EGU2007-A-08935; OS4-1MO5P-0530
Mariani, S.; Orasi, A.; Inghilesi, R.; Casaioli, M.
Time series comparison of the SIMM's WAM forecasts and
the RON buoy observations along the Italian coasts

XY0531; EGU2007-A-03217; OS4-1MO5P-0531
Janekovic, I.; Sikiric-Dutour, M.
Improving tidal open boundary conditions for the Adriatic
Sea numerical model

XY0532; EGU2007-A-03990; OS4-1MO5P-0532
Korotaev, G.K.; Ratner, Yu.B.; Dorofeev, V.L.; Knysh, V.V.
Validation of the basin-scale Black Sea dynamic forecast

XY0533; EGU2007-A-05767; OS4-1MO5P-0533
Palazov, A.; Slabakov, H.; Stefanov, A.
Multi-parameter In-situ Open Sea Observing Platform

XY0534; EGU2007-A-07050; OS4-1MO5P-0534
Slabakov, H.; **Palazov, A.**; Valchev, N.
Improvement of observational and networking potential of
the regional Black Sea operational oceanographic system

XY0535; EGU2007-A-01887; OS4-1MO5P-0535
Baudel, S.; Gasc, M.; Toumazou, V.; Vinay, G.
Mercator Ocean forecasting products: an assessment by the
users

XY0536; EGU2007-A-04122; OS4-1MO5P-0536
Coelho, E.; Rowley, C.; Peggion, G.; Jacobs, G.
Forecast error analysis of limited data assimilation schemes
using perturbed and multi-model ensembles

XY0537; EGU2007-A-07007; OS4-1MO5P-0537
Acreman, D.; Jeffery, C.; **Storkey, D.**
Validation and tuning of mixed layer models for operational
ocean models

XY0538; EGU2007-A-07467; OS4-1MO5P-0538
O'Dea, E.J.; Hyder, P.; Horsburgh, K.J.; Osborne, J.P.;
Holt, M.W.
Systematic error analysis of a high resolution relocatable
system for operational hydrodynamic coastal forecasting

XY0539; EGU2007-A-10617; OS4-1MO5P-0539
Raudsepp, U.; Elken, J.; Kouts, T.; Liblik, T.; Kikas, V.;
Lagemaa, P.; Uiboupin, R.
Forecasting skills of the HIROMB in the Gulf of Finland

OS7 High latitude changes in ocean, ice and climate (co-listed in CR & CL) – Posters

Convener: Döscher, R.
Co-Convener(s): Mauritzen, C.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0540; EGU2007-A-01097; OS7-1MO5P-0540
Grist, J. P.; Josey, S. A.; Sinha, B.; Blaker, A. T.
Impact on the Atlantic Ocean of Extreme Greenland Sea
Heat Loss in a range of Coupled Ocean-Atmosphere Models

XY0541; EGU2007-A-01362; OS7-1MO5P-0541
Stroeve, J.; Holland, M.; Serreze, M.; Scambos, T.
Arctic Sea Ice Decline: Faster than Forecast?

XY0542; EGU2007-A-07032; OS7-1MO5P-0542
Wyser, K.; Döscher, R.; Meier, HEM
RCAO- a coupled regional climate model for the Arctic

XY0543; EGU2007-A-05784; OS7-1MO5P-0543
Yakovlev, N.
FEMAO (Finite Element Model of the Arctic Ocean) –
state-of-the-art and prospects of development in the frame of
the DAMOCLES

XY0544; EGU2007-A-02282; OS7-1MO5P-0544
Alekseev, G.; Ivanov, N.; Ivanov, B.; **Korablev, A.**
Seasonal variations of the Atlantic Water temperature from
annual records in deep part of the Laptev Sea

XY0545; EGU2007-A-08825; OS7-1MO5P-0545
Germe, A.; Herbaut, C.; Houssais, M.-N.
Variability of the Greenland Sea convection during 1980-
2006

XY0546; EGU2007-A-09886; OS7-1MO5P-0546
Våge, K.; Pickart, R.S.; Moore, G.W.K.; Ribergaard, M.H.;
Davies, H.C.
The Greenland Tip Jet and its Effect on the Irminger Sea

XY0547; EGU2007-A-05536; OS7-1MO5P-0547
Roberts, Z.; Killworth, P.; Piggott, M.; Bricheno, L.; Ham, D.;
Cotter, C.; Pain, C.
Investigating Open Ocean Deep Convection in the Greenland
Sea using adaptive modelling techniques

XY0548; EGU2007-A-10879; OS7-1MO5P-0548
Søiland, H.
Pathways of Intermediate Water in the Norwegian Sea

XY0549; EGU2007-A-06335; OS7-1MO5P-0549
MacLachlan, S.; Howe, J.; Austin, W.; Shimmield, T.
Late Holocene changes in ocean circulation and climate:
multi-proxy evidence from Kongsfjorden, western Svalbard.

OS8 Variability in the Southern Ocean (co-listed AS,CL,BG,CR) – Posters

Convener: Provost, C.
Co-Convener(s): Fahrbach, E.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: HELLMER, H.

XY0550; EGU2007-A-01207; OS8-1MO5P-0550
Núñez-Riboni, I.; Fahrbach, E.
Variability of the Antarctic Coastal Current and its origins

XY0551; EGU2007-A-02884; OS8-1MO5P-0551
Preunkert, S.; Legrand, M.; Jourdain, B.; Moulin, C.;
Belviso, S.; Kasamatsu, N.; Fuckuchi, M.; Hirawake, T.
Interannual variability of dimethylsulfide in air and seawater
and its atmospheric oxidation by-products (methanesul-
fonate and sulfate) at Dumont d'Urville (coastal Antarctica)
(1999-2003)

XY0552; EGU2007-A-03608; OS8-1MO5P-0552
Popova, E.E.; Pollard, R.T.; Lucas, M.I.; Venables, H.J.;
Anderson, T.R.
Real time forecasting of the ecosystem dynamics during the
CROZEX experiment and the roles of the light, iron, silicate
and circulation

XY0553; EGU2007-A-07938; OS8-1MO5P-0553
Fach, B.; Timmermann, R.; Meyer, B.; Wolf-Gladrow, D.;
Bathmann, U.
Modeling Antarctic krill (*Euphausia superba*) development
in the Lazarev Sea

XY0554; EGU2007-A-08193; OS8-1MO5P-0554
Fahrbach, E.; Boebel, O.; Hoppema, M.; Klatt, O.; Ro-
hardt, G.; Schröder, M.; Wisotzki, A.
Variations of water mass properties in the Weddell Sea
(solicited)

XY0555; EGU2007-A-09074; OS8-1MO5P-0555
Shuckburgh, E.
 Interannual variability in the eddy activity in the Southern Ocean

XY0556; EGU2007-A-07217; OS8-1MO5P-0556
 Lancelot, C.; de Montety, A.; Goosse, H.; Becquevort, S.; Gypens, N.; **Lefebvre, W.**
 Light and iron are controlling ecosystem dynamics and biogeochemical cycles in the present-day Southern Ocean: results of the NEMO-SWAMCO model

XY0557; EGU2007-A-07368; OS8-1MO5P-0557
Timmermann, R.; Böning, C.; Wang, Q.; Schröter, J.; Danilov, S.
 On the representation of the Southern Ocean in a finite-element coupled sea ice–ocean model

XY0558; EGU2007-A-07800; OS8-1MO5P-0558
 Böning, C.; **Timmermann, R.**; Schröter, J.; Macrander, A.
 Ocean bottom pressure and circulation in the South Atlantic

XY0559; EGU2007-A-05887; OS8-1MO5P-0559
Hong, C.-S.; Lee, J.H.; Park, Y.-H.; Pang, I.-C.
 The surface geostrophic flow field in the Drake Passage determined from satellite altimetry data

XY0560; EGU2007-A-09571; OS8-1MO5P-0560
Barré, N.; Provost, C.; Sennechael, N.
 Circulation in the Ona Basin, southern Drake Passage

XY0561; EGU2007-A-10089; OS8-1MO5P-0561
Jeandel, C.; Pradoux, C.; Rutgers van der Loeff, M.; Provost, C.
 Dissolved and particle Rare Earth (REE) concentration and Nd isotopic composition in the Drake Strait

XY0562; EGU2007-A-09834; OS8-1MO5P-0562
Cordeiro Pires, A.; Barré, N.; Provost, C.
 Argo floats and the “cold water route”.

XY0563; EGU2007-A-09073; OS8-1MO5P-0563
Spadone, A.; Provost, C.
 Malvinas current transport: 13-year-long time series

XY0564; EGU2007-A-06588; OS8-1MO5P-0564
Dencausse, G.; Speich, S.; Arhan, M.
 On the connection between the South Atlantic and Indian oceans subtropical fronts

XY0565; EGU2007-A-05286; OS8-1MO5P-0565
Klepikov, A.; Antipov, N.
 On evidence of the bottom water formation in the Prydz Bay

XY0566; EGU2007-A-08228; OS8-1MO5P-0566
Falco, P.; Zambianchi, E.
 Mean and eddy features of the Antarctic Circumpolar Current

OS9 The Mediterranean Sea: a natural laboratory for marine interdisciplinary studies – Posters

Convener: Pinardi, N.
 Co-Convener(s): Papathanassiou, V.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0567; EGU2007-A-00222; OS9-1MO5P-0567
Grignon, L.; Smeed, D.A.; Bryden, H.L.; Griffiths, G.; Challenor, P.
 Interannual variability of deep-water formation in the Gulf of Lion, Western Mediterranean

XY0568; EGU2007-A-00606; OS9-1MO5P-0568
Stokozov, N.A.; Egorov, V.N.
 The fate of long-lived radionuclides ¹³⁷Cs and ⁹⁰Sr in the Black Sea after Chernobyl NPP accident: role of hydrophysical factors and tracer applications

XY0569; EGU2007-A-01470; OS9-1MO5P-0569
Dulèia, J.; Grbec, B.; Beg-Paklar, G.
 THE Effect of the hemispheric climatic oscillations on the Adriatic ichthyofauna

XY0570; EGU2007-A-01734; OS9-1MO5P-0570
Bogunovic, B.; Malacic, V.
 Exchange of water masses at the entrance to the Gulf of Trieste (northern Adriatic)

XY0571; EGU2007-A-02174; OS9-1MO5P-0571
Sánchez-Román, A.; Criado-Aldeanueva, F.; García-Lafuente, J.; Sánchez, J.C.
 Vertical structure of tidal currents over Espartel and Camarinal sills, Strait of Gibraltar

XY0572; EGU2007-A-02220; OS9-1MO5P-0572
 Criado-Aldeanueva, F.; **Sánchez-Román, A.**; Del Río Vera, J.; García-Lafuente, J.; Sánchez, J.C.
 Steric and mass-induced Mediterranean sea level trends from 15 years of altimetry data

XY0573; EGU2007-A-02397; OS9-1MO5P-0573
 Lovato, T.; Androssov, A.; Ficca, G.; Pastres, R.; **Angelo, A.**
 Extreme oceanic events in the Lagoon of Venice simulated by an atmospheric/oceanic model

XY0574; EGU2007-A-03384; OS9-1MO5P-0574
 Brigolin, D.; **Pastres, R.**; Lovato, T.; Dal Maschio, G.; Davydov, A.; Rubino, A.
 Modelling the influence of mussel farming on the biogeochemical composition of the water column in the northern Adriatic shelf (Mediterranean Sea)

XY0575; EGU2007-A-04086; OS9-1MO5P-0575
Teles-Machado, A.; Peliz, A.; Dubert, J.; Garcia-Lafuente, J.
 Flow structure and sub-inertial variability studies near the Strait of Gibraltar

XY0576; EGU2007-A-04126; OS9-1MO5P-0576
Rubio, A.; Andre, G.; Taillandier, V.; Garreau, P.
 Mesoscale and seasonal variability of the circulation in the NW Mediterranean from mixed-layer drifters trajectories

XY0577; EGU2007-A-04166; OS9-1MO5P-0577
Rubio, A.; Taillandier, V.; Andre, G.; Garreau, P.
 Reconstruction of mixed-layer currents in the NW Mediterranean by the variational analysis of Lagrangian data and model outputs

XY0578; EGU2007-A-04902; OS9-1MO5P-0578
Skandrani, c.S.; Lefebvre, j-m.L.; Queffeuilou, p.Q.; Bentamy, a.B.
 Impact of operational oceanography on wave modelling in the Mediterranean Sea.

XY0579; EGU2007-A-04924; OS9-1MO5P-0579
Censi, P.; Larocca, D.; Sprovieri, M.; Placenti, F.; Tranchida, G.; Cuttitta, A.; Saiano, F.; Mazzola, S.; Bonanno, A.; Patti, B.
 Low Y/Ho ratios in seawater from Central Mediterranean induced by alteration of volcanic ash

XY0580; EGU2007-A-04944; OS9-1MO5P-0580
Pavlis, E. C.; Mertikas, S. P.
 JASON-1 absolute calibration results from the eastern Mediterranean GAVDOS project

XY0581; EGU2007-A-05482; OS9-1MO5P-0581
Merckelbach, L.; Smeed, D.; Testor, P.
 Observing deep ocean convection with gliders

XY0582; EGU2007-A-05493; OS9-1MO5P-0582
Zagar, D.; Andersson, M.; Ramsak, V.; Cetina, M.; Horvat, M.; Kotnik, J.; Kallos, G.
 Modelling of mercury evasion in the Mediterranean Sea

XY0583; EGU2007-A-06287; OS9-1MO5P-0583
 Delitala, A.; WERMED Project Team
 WERMED – An interdisciplinary project for sustainable marine transportations.

XY0584; EGU2007-A-06481; OS9-1MO5P-0584
Skliris, N.; Mantziafou, A.; Sofianos, S.; Vervatis, V.; Lascaratos, A.; Keramitzoglou, I.; Vlahopoulos, G.; Adaktilou, N.; Kartalis, C.
 Modelling the ecohydrodynamics of the Aegean Sea

XY0585; EGU2007-A-06990; OS9-1MO5P-0585
 Vidal, M.; Vila, G.; Emelianov, M.; López-Jurado, J. L.; Latasa, M.; Salat, J.
 Nutrient distribution during the spring bloom following the unusual winter 2005 deep mixing event in NW Mediterranean.

XY0586; EGU2007-A-07694; OS9-1MO5P-0586
 Vargas, J. M.; **Sanchez, A. J.;** Delgado, J.; Garcia-Lafuente, J.; Sanchez, J. C.; Bruno, M.
 Transports and Froude number estimations at Tarifa Narrows, Strait of Gibraltar

XY0587; EGU2007-A-07834; OS9-1MO5P-0587
Kahana, R.; Bigg, GR.; Wadley, MR.
 Modelling the effect of large climatic changes over the Mediterranean on the Atlantic thermohaline circulation

XY0588; EGU2007-A-08757; OS9-1MO5P-0588
 Cuttitta, C.; Di Nieri, D.; Patti, P.; Bonanno, B.; Basilone, B.; Cavalcante, C.; Buscaino, B.; Patti, P.; Caruana, C.; Mazzola, M.
 Hydrodynamism in the Strait of Sicily (Mediterranean Sea) as a mechanism affecting the ichthyoplankton species distribution

XY0589; EGU2007-A-09000; OS9-1MO5P-0589
Tranchida, G.; Bellanca, A.; Angelone, M.; Neri, R.; Mazzola, S.; Patti, B.; Bonanno, A.
 Heavy metal contamination and bioproductivity record in box-core sediments from the Strait of Sicily, central Mediterranean

XY0590; EGU2007-A-09352; OS9-1MO5P-0590
Lo Bue, N.; Etiope, G.; Calcara, M.; Favali, P.
 Oceanographic signals at the Benthic Boundary Layer in deep Mediterranean Sea

XY0591; EGU2007-A-09459; OS9-1MO5P-0591
Dobricic, S.; Pinardi, N.; Testor, P.; Send, U.
 Assimilation of glider observations in the Ionian Sea

XY0592; EGU2007-A-09718; OS9-1MO5P-0592
Santinelli, C.; Ibello, V.; Civitarese, G.; Nannicini, L.; Seritti, A.
 Changes in DOC and nutrients distribution in the Ionian Sea from 1999 to 2002

XY0593; EGU2007-A-09794; OS9-1MO5P-0593
Alhammoud, B.; Béranger, K.; Mortier, L.; Crépon, M.
 Upper circulation in the Ionian basin (Mediterranean sea) as inferred from a high-resolution numerical model

XY0594; EGU2007-A-09955; OS9-1MO5P-0594
Morguí, J. A.; Vidal, M.; Emelianov, M.; López-Jurado, J. L.; Latasa, M.; Salat, J.
 Local alkalinity changes in NW Mediterranean following a post-mixing event phytoplankton bloom.

XY0595; EGU2007-A-10157; OS9-1MO5P-0595
 Delgado, J.; Lafuente, G.; **Sánchez, A.;** Vargas, J. M.; Sánchez, J. C.
 Coupled model of normal modes of Gibraltar Strait's short period oscillations

XY0596; EGU2007-A-10772; OS9-1MO5P-0596
Petri, A.; Marcelli, M.; Giuseppe, G.
 Sailing VOS Feasibility Study Project: progress report

OS14 Turbulent mixing in aquatic ecosystems - physical processes and ecosystem responses (co-listed in BG)

Convener: Rippeth, T.
 Co-Convener(s): Huisman, J., Sharples, J.
 Lecture Room 7
 Chairperson: N.N.

13:30–13:45; EGU2007-A-06973; OS14-1MO3O-001
Huisman, J.; Pham Thi, N.N.; Karl, D.M.; Sommeijer, B.
 Reduced mixing generates oscillations and chaos in the oceanic deep chlorophyll maximum (solicited)

13:45–14:00; EGU2007-A-03450; OS14-1MO3O-002
Deleersnijder, E.; Beckers, J.-M.; Delhez, E.
 Does turbulence help sinking phytoplankton species to survive?

14:00–14:15; EGU2007-A-01150; OS14-1MO3O-003
 Koch, M.; Scheuring, I.; Tel, T.
 Sinking phytoplankton in a turbulent flow

14:15–14:30; EGU2007-A-04190; OS14-1MO3O-004
de Swart, H.E.; Schuttelaars, H.M.; Talke, S.A.
 A simple model for phytoplankton growth in turbid estuaries

14:30–14:45; EGU2007-A-01807; OS14-1MO3O-005
Rippeth, TP.; Palmer, MR; Tweddle, JF; Sharples, J; Inall, ME; Holligan, PM; Moore, CM; Simpson, JH
 Diapycnal nutrient fluxes in seasonally stratified shelf seas

14:45–15:00; EGU2007-A-07988; OS14-1MO3O-006
Larsen, K. M.
 Horizontal exchange rate controls the new primary production on the Faroe Shelf.

15:00 END OF SESSION

OS15 Fate of riverine matter in marine environments: pathways, feedbacks, characterization and quantification (co-listed in BG) – Posters

Convener: Kim, J.
 Co-Convener(s): Wagner, T., BONNIN, J.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: KIM, J.-H. AND WAGNER, T.

XY0597; EGU2007-A-02605; OS15-1MO5P-0597
 Lim, Y. C.; Lin, S.; Hsieh, I.-J.; Huang, K.-M.; Chen, C.T.A
 Influence of the Pearl River on the spatial variations of heavy metals and organic carbon in the northern South China Sea continental shelf and slope sediments

XY0598; EGU2007-A-02058; OS15-1MO5P-0598
Kim, J.-H.; Ludwig, W.; Schouten, S.; Kerhervé, P.; Herfort, L.; Bonnin, J.; Sinninghe Damsté, J.S.
 Impact of flood events on the transport of terrestrial organic matter to the ocean: A study of the Têt River (SW France) using the BIT index

XY0599; EGU2007-A-08794; OS15-1MO5P-0599

Kerhervé, P.; Sanchez-Vidal, A.

Accurate isotopic determinations (d13C and d15N) of the organic material from rivers discharging into the Gulf of Lions (NW Mediterranean Sea)

XY0600; EGU2007-A-03447; OS15-1MO5P-0600

Aubert, D; Métais, A; Kerhervé, P; **Kim, J-H**

Characterization of trace metals contents in river suspended matter entering the Gulf of Lion (France)

XY0601; EGU2007-A-08349; OS15-1MO5P-0601

Tesi, T.; Misericocchi, S.; Goñi, M.A.; **Langone, L.**

Comparative organic geochemistries in surface sediments from the Adriatic (Italy) and Gulf of Lions (France): origin, fate and age of terrestrial-derived organic carbon

XY0602; EGU2007-A-10622; OS15-1MO5P-0602

Nunes, J.P.; Ferreira, J.G.; Zhu, M.Y.; The SPEAR partnership

Modelling the transport of nutrients and carbon from catchment to coast – the SPEAR project

Planetary and Solar System Sciences

PS1.4 Experimental Planetology - Space simulations in laboratory

Convener: Colangeli, L.

Co-Convener(s): Sears, D., Seiferlin, K.

Lecture Room 7

Chairperson: N.N.

15:30–15:45; EGU2007-A-02361; PS1.4-1MO4O-001

Seiferlin, K.; Heimberg, M; Thomas, N

The Effect of Soil Cementation on the Thermal Conductivity

15:45–16:00; EGU2007-A-07246; PS1.4-1MO4O-002

Maturilli, A.; Helbert, J.; Moroz, L.

Mars Analogues Emissivity Spectra from the Berlin Emissivity Database (BED)

16:00–16:30; EGU2007-A-09990; PS1.4-1MO4O-003

Ferri, F.; Giacomuzzo, C.; Pavarin, D.; Francesconi, A.; Bettella, A.; Flamini, E.; Angrilli, F.

Impact cratering: hypervelocity experiments in support of planetary space missions (solicited)

16:30–16:45; EGU2007-A-05579; PS1.4-1MO4O-004

Kraal, E.; van Dijk, M.; Postma, G.; Kleinhans, M.

Experimental formation of stepped fan deposits on Mars

16:45–17:00; EGU2007-A-08070; PS1.4-1MO4O-005

Falenty, A.; Kuhs, W. F.

From micrometer scale to planet size – CO₂ Hydrates on Mars

17:00 COFFEE BREAK

Chairperson: N.N.

17:30–17:45; EGU2007-A-05974; PS1.4-1MO5O-001

Nagahara, H.; Ozawa, K.

Evolution of forsterite and metallic iron dust in circumstellar discs

17:45–18:00; EGU2007-A-09113; PS1.4-1MO5O-002

Spencer, M.; Zare, R

Organic signature retention along hypervelocity particle impact tracks in Stardust aerogel

18:00–18:30; EGU2007-A-10702; PS1.4-1MO5O-003

Heggy, E.; Clifford, S. M.; Younsi, A.; Miane, J.L.; Carley, R.; Morris, R.V.

Experimental and Parametric Investigation of the Dielectric Properties of Martian Surface Sediments and Polar Ice-rich Analog Materials (solicited)

18:30–18:45; EGU2007-A-02781; PS1.4-1MO5O-004

Usoiwicz, B.; Lipiec, J.; Usoiwicz, J.B.; Marczewski, W.

Modelling the dielectric permittivity of porous media using statistical-physical model

18:45–19:00; EGU2007-A-08432; PS1.4-1MO5O-005

Kurnosov, A.; Dubrovinsky, L.; Kuznetsov, A.; Dmitriev, V. Methane hydrates in Titan's interior

19:00 END OF SESSION

PS1.5 Societal Benefits of Space Exploration

Convener: Foing, B.

Co-Convener(s): Plattard, S.

Lecture Room 8

Chairperson: B.H.FOING

17:30–17:45; EGU2007-A-11574; PS1.5-1MO5O-001

Dupas, A.

Political and economical drivers for lunar and planetary exploration

17:45–18:00; EGU2007-A-10794; PS1.5-1MO5O-002

Foing, B.H.; ILEWG, &

Panorama of International Moon-Mars Exploration

18:00–18:15; EGU2007-A-11489; PS1.5-1MO5O-003

Farrow, J. B.; **Burke, J. D.**

Summary from ISU Symposium 2007: "Why the Moon?"

18:15–18:30; EGU2007-A-11491; PS1.5-1MO5O-004

TBC, N.

Legal issues in Exploration and Use of Outer Space

18:30–18:45; EGU2007-A-11599; PS1.5-1MO5O-005

Plattard, S.

Models and strategic framework for space exploration

18:45–19:00; EGU2007-A-11680; PS1.5-1MO5O-006

Hufenbach, B.

The European Long-term Strategy for Space Exploration - Development Approach and Status

19:00–19:15; EGU2007-A-11335; PS1.5-1MO5O-007

Arnould, J.

Exploration and Society: a Philosophical Perspective

19:15–19:30; EGU2007-A-00177; PS1.5-1MO5O-008

Muller, C.

Space exploration and Belgian society, 1911-2006

19:30 END OF SESSION

PS1.5 Societal Benefits of Space Exploration – Posters

Convener: Foing, B.

Co-Convener(s): Plattard, S.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 15:30–17:00

Poster Area Halls X/Y

Chairperson: FOING, B.H.

XY0603; EGU2007-A-11490; PS1.5-1MO4P-0603

Plattard, S.

Models and Strategic Framework for Space Exploration

XY0604; EGU2007-A-11576; PS1.5-1MO4P-0604
Steinkellner, M.; Lukaszczyk, A.; SGAC
 Space Generation: Youth Vision and Preparation Activities
 for Exploration (solicited)

PS2.2 Recent Mars Science

Convener: Chicarro, A.
 Lecture Room 15 (F2)
 Chairperson: PINET, P.

8:30–8:45; EGU2007-A-11259; PS2.2-1MO1O-001
Chicarro, A.
 Mars Express - Scientific discoveries of the extended mission

8:45–9:00; EGU2007-A-09588; PS2.2-1MO1O-002
Neukum, G.; Basilevsky, A. T.; Chapman, M. G.; Werner, S. C.; van Gasselt, S.; Jaumann, R.; Hauber, E.; Hoffmann, H.; Wolf, U.; Head, J. W.; The HRSC Co-Investigator Team
 The geologic evolution of Mars: Episodicity of resurfacing events and ages from cratering analysis of image data and correlation with radiometric ages of martian meteorites

9:00–9:15; EGU2007-A-04854; PS2.2-1MO1O-003
Jaumann, R.; Reiss, D.; Sander, T.; Gwinner, K.; Hauber, E.; Hoffmann, H.; Roatsch, T.; Erkeling, G.; Friedrich, S.; Neukum, G.
 Source regions and multiple water release events in Valley Networks of the Libya Montes region on Mars

9:15–9:30; EGU2007-A-00312; PS2.2-1MO1O-004
Di Achille, G.; Ori, G.G.; Reiss, D.
 Evidence for Late Hesperian lacustrine activity in Shalbatana Vallis, Mars

9:30–9:45; EGU2007-A-07933; PS2.2-1MO1O-005
Helbert, J.; Head III, J.W.; Kreslavsky, M.
 Surveying candidate ice-rich environments and deposits on Mars

9:45–10:00; EGU2007-A-09202; PS2.2-1MO1O-006
Fishbaugh, K.; Byrne, S.; Herkenhoff, K.; Thomas, N.; Russell, P.; McEwen, A.; HiRISE Team, the
 The Martian North Polar Layered Deposits at High Resolution Using MRO HiRISE

10:00 COFFEE BREAK

Chairperson: FISHBAUGH, K.

10:30–10:45; EGU2007-A-05724; PS2.2-1MO2O-001
Bibring, J-P.; and the OMEGA, team
 OMEGA/Mars Express: identification, characterization and implications of a Mars global climatic change

10:45–11:00; EGU2007-A-01665; PS2.2-1MO2O-002
Poulet, F.; Vincendon, M.; Langevin, Y.; Bibring, J-P.; Gondet, B.
 Determining the modal mineralogy of the Martian surface using the OMEGA/MEX reflectance data

11:00–11:15; EGU2007-A-08321; PS2.2-1MO2O-003
Loizeau, D.; Mangold, N.; Poulet, F.; Bibring, J-P.; Ansan, V.; Hauber, E.; Langevin, Y.; Gondet, B.; Masson, P.; Neukum, G.
 Stratigraphic correlation between Mawrth Vallis region's clays detected by OMEGA and HRSC color images and DTM

11:15–11:30; EGU2007-A-09342; PS2.2-1MO2O-004
Pinet, P.; Clenet, H.; Chevrel, S.; Baratoux, D.; Daydou, Y.; Heuripeau, F.; Rosenberg, C.; Poulet, F.; LeMouelic, S.; Bibring & the OMEGA team, J.P.
 Mineralogy variations across Syrtis Major and surroundings as inferred from visible-near-infrared spectroscopy by OMEGA/Mars Express

11:30–11:45; EGU2007-A-05656; PS2.2-1MO2O-005
Langevin, Y.; Bibring, J-P.; Gondet, B.; OMEGA team, The
 Observations of the thermal emission of the surface of Mars by OMEGA / Mex after sunset

11:45–12:00; EGU2007-A-09474; PS2.2-1MO2O-006
Vincendon, M.; Langevin, Y.; Poulet, F.; Bibring, J.-P.; Gondet, B.
 Determining the contribution of aerosols in near-IR observations of the "cryptic region" on Mars using OMEGA and CRISM.

12:00 LUNCH BREAK

Chairperson: POULET, F.

13:30–13:45; EGU2007-A-07887; PS2.2-1MO3O-001
Cartacci, M.; Cicchetti, A.; Edenhofer, P.; Federico, C.; Frigeri, A.; Hagfors, T.; Heggy, E.; Herique, A.; Ivanov, A. B.; Kofman, W.; MARSIS Team
 MARSIS over Elysium Planitia: mapping a subsurface structure in an area with a complex geological history

13:45–14:00; EGU2007-A-09569; PS2.2-1MO3O-002
Clifford, S.; Heggy, E.; LeGall, A.; Ciarletti, V.
 The Effect of Vadose Zone Thickness and Moisture Content on the Detectability of Subpermafrost Groundwater by Low-Frequency Radar Sounding on Mars

14:00–14:15; EGU2007-A-07783; PS2.2-1MO3O-003
Calabrese, D.; Cicchetti, A.; Edenhofer, P.; Federico, C.; Frigeri, A.; Hagfors, T.; Heggy, E.; Herique, A.; Kofman, W.; Marinangeli, L.; MARSIS Team
 Basin infills at Ma'adim Vallis as seen by MARSIS subsurface sounding radar

14:15–14:30; EGU2007-A-06012; PS2.2-1MO3O-004
Ivanov, A. B.; Safaeinili, A.; Plaut, J. J.; Picardi, G.
 Observations of the layering structure in the Martian Polar Layered Deposits with the MARSIS instrument

14:30–14:45; EGU2007-A-04664; PS2.2-1MO3O-005
Watters, W.; Zuber, M
 Relating polygonal crater morphology, tectonic setting and shallow crustal structure on Mars: a machine vision approach.

14:45–15:00; EGU2007-A-07978; PS2.2-1MO3O-006
Alberti, G.; Biccari, D.; Cutigni, M.; Federico, C.; Frigeri, A.; Giacomoni, E.; Hagfors, T.; Heggy, E.; Herique, A.; Ivanov, A. B.; SHARAD Team
 Polar layered deposits of Mars as seen by MRO/SHARAD

15:00 COFFEE BREAK

Chairperson: TELLMANN, S.

15:30–15:45; EGU2007-A-07996; PS2.2-1MO4O-001
Formisano, V.; Grossi, M.; Giuranna, M.; Rinaldi, G.
 High Altitude aerosols in the Martian atmosphere

15:45–16:00; EGU2007-A-08874; PS2.2-1MO4O-002
Cottini, V.; Ignatiev, N.I.; Formisano, V.; Grassi, D.
 Monitoring CO in Martian atmosphere with PFS-MEX data

16:00–16:15; EGU2007-A-09026; PS2.2-1MO4O-003
Montmessin, F.; Gondet, B.; Fouchet, T.; Bibring, J.P.; Drossart, P.; Forget, F.; Langevin, Y.; Encrenaz, T.
 Hyperspectral imaging of CO₂ ice clouds on Mars

16:15–16:30; EGU2007-A-11221; PS2.2-1MO4O-004
 Cox, C.; Saglam, A.; Gérard, J.-C.; Bertaux, J.-L.; SPICAV team, .

The NO Martian Nightglow observed with the SPICAM UV Spectrometer and comparison with a one-dimensional model

16:30–16:45; EGU2007-A-03975; PS2.2-1MO4O-005
Nielsen, E.; Fraenz, M.; Zou, H.; Wang, J.-S.; Gurnett, D. A.; Kirchner, D. L.; Morgan, D. D.; Huff, R.; Safaeinili, A.; Plaut, J. J.; The MARSIS/ASPERA team
 Local plasma processes and enhanced electron densities in the lower ionosphere in magnetic cusp regions on Mars.

16:45–17:00; EGU2007-A-05791; PS2.2-1MO4O-006
Safaeinili, A.; Kofman, W.; Mouginot, J.; Ivanov, A.; GIM, Y.; Plaut, J.; Picardi, G
 MARSIS Observation of Mars Ionosphere using Mars Surface Radar Echo

17:00 COFFEE BREAK

Chairperson: SAFAEINILI, A.

17:30–17:45; EGU2007-A-09454; PS2.2-1MO5O-001
Pätzold, M.; Withers, P.; Tellmann, S.; Mendillo, M.; Häusler, B.; Hinson, D.; Tyler, G.L.
 Correlation between third layer formation in the Martian ionosphere and meteor streams at Mars

17:45–18:00; EGU2007-A-03285; PS2.2-1MO5O-002
Tellmann, S.; Pätzold, M.; Häusler, B.; Tyler, G.L.; Hinson, D.P.
 Observations of the Martian Neutral Atmosphere with the Radio Science Experiment MaRS on Mars Express

18:00–18:15; EGU2007-A-08220; PS2.2-1MO5O-003
Picardi, G.P.; Biccari, D.B.; Cartacci, M.C.; Cicchetti, A.C.; Masdea, A.M.; Seu, R.S.; Marini, A.M.; Plaut, J.J.P.; Johnson, WTKJ; Jordan, R.LJ; MARSIS TEAM
 MARSIS DATA INVERSION APPROACH Preliminary results

18:15–18:30; EGU2007-A-05453; PS2.2-1MO5O-004
Smith, D.; Zuber, M.
 Seasonal precipitation depth over the south polar icecap of Mars

18:30–18:45; EGU2007-A-06931; PS2.2-1MO5O-005
 Coradini, A.; **Capaccioni, F.;** Drossart, P.; Capria, M.T.; De Sanctis, M.C.; Filacchione, G.; Henry, F.
 VIRTIS observation of Mars during the Rosetta Mars Swing By

18:45–19:00; EGU2007-A-06349; PS2.2-1MO5O-006
Gondet, B.; Langevin, Y.; Bibring, J.P.; poulet, F.
 Phobos observations by Omega/Mars Express

19:00 END OF SESSION

PS2.3 Atmospheres of terrestrial planets

Convener: Markiewicz, W.
 Co-Convener(s): Montmessin, F.
 Lecture Room 8
 Chairperson: N.N.

13:30–13:45; EGU2007-A-01671; PS2.3-1MO3O-001
Forbes, J.M.; Konopliv, A.
 Oscillation of Venus' Upper Atmosphere

13:45–14:00; EGU2007-A-10842; PS2.3-1MO3O-002
Hollingsworth, J.L.; Schubert, G.; Lebonnois, S.; Covey, C.
 Modeling the atmosphere of Venus: influences of large-scale topography

14:00–14:15; EGU2007-A-09218; PS2.3-1MO3O-003
Keating, G.; Bougher, S.; Theriot, M.; Tolson, R.; Blanchard, R.; Bertaux, J.; Zurek, R.; Murphy, J.
 The Mars Neutral Upper Atmosphere from Equator to Pole from the Mars Reconnaissance Orbiter Accelerometer Experiment

14:15–14:30; EGU2007-A-10891; PS2.3-1MO3O-004
Wallis, M. K.;
 Implication of Martian Deuterium for sources of Atmospheric Water Vapour in the planet's recent past

14:30–14:45; EGU2007-A-01282; PS2.3-1MO3O-005
Mateshvil, N.; Fussen, D.; Vanhellemont, F.; Bingen, C.; Dodion, J.; Daerden, F.; Verhoeven, C.; Depiesse, C.; Muller, C.; Montmessin, F.; SPICAM team
 Martian cloud distribution detected by SPICAM UV channel in nadir mode.

14:45–15:00; EGU2007-A-06650; PS2.3-1MO3O-006
Simon, C.; Witasse, O.; Leblanc, F.; Liliensten, J.; Mouginot, J.; Kofman, W.; Bertaux, J.-L.
 Analysis and modelling of SPICAM data onboard Mars Express

15:00–15:15; EGU2007-A-09403; PS2.3-1MO3O-007
Vincendon, M.; Langevin, Y.; Poulet, F.; Bibring, J.-P.; Gondet, B.
 Mapping of the optical depth of aerosols above the south polar cap of Mars using OMEGA near-IR data.

15:15 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-02528; PS2.3-1MO4O-001
Encrenaz, T.; Fouchet, T.; Melchiorri, R.; Drossart, P.; Gondet, B.; Langevin, Y.; Bibring, J.-P.; Forget, F.; THE OMEGA TEAM
 Seasonal variations of CO and H₂O over Hellas as observed by OMEGA/Mars Express

15:45–16:00; EGU2007-A-04582; PS2.3-1MO4O-002
Haberle, R.; Montmessin, F.; Kahre, M.; Schaeffer, J.
 Simulations of the Martian Water Cycle with the Ames General Circulation Model: Comparison with Mars Express PFS/LW Observations

16:00–16:15; EGU2007-A-03747; PS2.3-1MO4O-003
Read, P. L.; Martin, R.; Lewis, S. R.; Rogberg, P.; Wilson, R. J.; Montabone, L.
 Transient waves in the Martian atmosphere from assimilation of MGS/TES data

16:15–16:30; EGU2007-A-02232; PS2.3-1MO4O-004
Montmessin, F.; Bertaux, J.L.; Forget, F.
 Supercold pockets in the Martian mesosphere

16:30–16:45; EGU2007-A-09595; PS2.3-1MO4O-005
Lewis, S. R.; Montabone, L.; Read, P. L.
 High resolution global simulations of the Martian atmosphere

16:45–17:00; EGU2007-A-06167; PS2.3-1MO4O-006
Rogberg, P.; Read, P.L.; Lewis, S.R.; Montabone, L.; Newman, C.E.
 Assessing Martian atmospheric predictability using a generalcirculation model and assimilated measurements from MGS/TES

17:00 END OF SESSION

PS2.3 Atmospheres of terrestrial planets – Posters

Convener: Markiewicz, W.

Co-Convener(s): Montmessin, F.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0605; EGU2007-A-01598; PS2.3-1MO2P-0605

Kochemasov, G.

Granulation in planetary atmospheres and its relation to orbital frequencies of celestial bodies

XY0606; EGU2007-A-07902; PS2.3-1MO2P-0606

Groeller, H.; **Lammer, H.**; Lichtenegger, H.I.M.; Kulikov, Yu.N.

3-D hot particle and exosphere modelling on Venus

XY0607; EGU2007-A-07638; PS2.3-1MO2P-0607

Peralta, J.; Hueso, R.; Sanchez-Lavega, A.

New measurements of Venus cloud winds from Galileo SSI images

XY0608; EGU2007-A-09909; PS2.3-1MO2P-0608

Iga, S.

A numerical simulation of lower Venus atmosphere.

XY0609; EGU2007-A-05934; PS2.3-1MO2P-0609

Majeed, T.; Shinagawa, H.; Bougher, S. W.; Cravens, T. E.

A time-dependent ionospheric model of Mars: Analysis of MGS-RSS electron density profiles

XY0610; EGU2007-A-10553; PS2.3-1MO2P-0610

Hollingsworth, J.L.; **Kahre, M.A.**; Haberle, R.M.

Mars dust: effects of large-scale extratropical cyclogenesis

XY0611; EGU2007-A-09682; PS2.3-1MO2P-0611

Montabone, L.; Lewis, S. R.; Henri, P.; Read, P. L.

The 2001 planet-encircling dust storm on Mars: a study by means of data assimilation

XY0612; EGU2007-A-04495; PS2.3-1MO2P-0612

Rinaldi, G.; Formisano, V.; Grassi, D.; Nicolay, N.; Giuranna, M.

Study of water ice clouds above Mons Olympus

XY0613; EGU2007-A-03782; PS2.3-1MO2P-0613

Millour, E.; Forget, F.; Gonzalez-Galindo, F.; Lewis, S.R.;

Montabone, L.; Read, P.L.; Lopez-Valverde, M.;

Desjean, M.-C.; Huot, J.-P.; THE GCM/MCD TEAM

The new Mars climate database (version 4.2)

XY0614; EGU2007-A-04949; PS2.3-1MO2P-0614

Quintero, A.; Falcon, N.

Lightning Generation in Titan due to the Electrical Self-polarization Properties of Methane

XY0615; EGU2007-A-04919; PS2.3-1MO2P-0615

Makarieva, A.M.; Gorshkov, V.G.

A new scheme for accounting for the non-radiative heat fluxes in the radiative transfer problem for atmospheric thermal photons

8:30–9:00; EGU2007-A-01074; PS2.5-1MO1O-001

Liou, K.N.; Yang, P.

Radiative Transfer in Ice Clouds: Remote Sensing and Climate Applications (solicited)

9:00–9:15; EGU2007-A-00419; PS2.5-1MO1O-002

Yelle, R. V.; Hurst, S.; Stevenson, S.

CH₄ non-LTE and applications to Titan and early Earth (solicited)

9:15–9:30; EGU2007-A-01609; PS2.5-1MO1O-003

Gazeau, M.-C.; Bénilan, Y.; Jolly, A.; Ferradaz, T.; Guillemin, J.-C.; Raulin, F.; Schwell, M.

Laboratory studies in support of the Cassini-Huygens mission (solicited)

9:30–9:45; EGU2007-A-10103; PS2.5-1MO1O-004

West, R.

Spectroscopy of hydrocarbons and nitriles below 1 micron: Goals of the Cassini/Huygens mission (solicited)

9:45–10:00; EGU2007-A-01802; PS2.5-1MO1O-005

Jacquinet-Husson, N.; Armante, R.; Scott, N.A.; chedin, A.

The GEISA spectroscopic database: current and future archive for planetary atmosphere studies (solicited)

10:00 COFFEE BREAK

Chairperson: L. ROTHMAN & M. MLYNCZAK

10:30–10:45; EGU2007-A-09812; PS2.5-1MO2O-001

Halthore, R. N.

An update on the 'excess' or the 'anomalous' absorption problem (solicited)

10:45–11:00; EGU2007-A-00234; PS2.5-1MO2O-002

Flaud, J.-M.

Laboratory (C₂H₆) and terrestrial (NO⁺) IR spectroscopy (solicited)

11:00–11:15; EGU2007-A-01799; PS2.5-1MO2O-003

Gordon, I.; Dothe, H.; Rothman, L.

The resurrection of the HITEMP database and its application to the study of stellar and planetary atmospheres (solicited)

11:15–11:30; EGU2007-A-01571; PS2.5-1MO2O-004

Mertens, C.

Influence of Particle Precipitation on CO₂ Infrared Emission in Earth's Upper Atmosphere and Implications to Infrared Remote Sensing of the Martian Atmosphere (solicited)

11:30–11:45; EGU2007-A-00181; PS2.5-1MO2O-005

Rinsland, C.

ACE (Atmospheric Chemistry Experiment) Measurements of the upper troposphere and stratosphere (solicited)

11:45–12:00; EGU2007-A-10104; PS2.5-1MO2O-006

Clough, S.

Status of Two Key Elements of the Forward Model in the Longwave: the Water Vapor Continuum and Carbon Dioxide Spectroscopy (solicited)

12:00 END OF SESSION

PS2.5 Spectroscopy and Radiative Transfer in Planetary Atmospheres

Convener: Martin-Torres, J.

Co-Convener(s): Crisp, D., Flaud, J., Rothman, L., Mlynchak, M.

Lecture Room 8

Chairperson: J. MARTIN-TORRES & J.-M. FLAUD

PS2.5 Spectroscopy and Radiative Transfer in Planetary Atmospheres – Posters

Convener: Martin-Torres, J.
Co-Convener(s): Crisp, D., Flaud, J., Rothman, L., Mlynchzak, M.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0616; EGU2007-A-00330; PS2.5-1MO3P-0616
Yankovsky, V.A.; **Manuilova, R.O.**; Kuleshova, V.A.
Kinetics of electronically-vibrationally excited O₂(a¹D_g, v) and O₂(b¹S_g, v) in the Earth middle atmosphere. Retrieval of the ozone concentration altitude profile from the intensities of emissions at 1.27 μ m and 762 nm.

XY0617; EGU2007-A-00332; PS2.5-1MO3P-0617
Manuilova, R.O.; Yankovsky, V.A.; Gusev, O.A.; Kutepov, A.A.

The new model of non-equilibrium middle atmosphere radiation in the infrared ro-vibrational water vapor bands.

XY0618; EGU2007-A-03603; PS2.5-1MO3P-0618
BLACKIE, D.; Blackwell-Whitehead, R.; Stark, G.; Pickering, J.; Rufus, J.; Thorne, A.; Smith, P.L.
High resolution ultra-violet absorption cross sections of sulphur dioxide at 200K

XY0619; EGU2007-A-04242; PS2.5-1MO3P-0619
Wolkenberg, P.; Grassi, D.; Formisano, V.; **Jurewicz, A.**
The impact of Martian aerosols on the retrieval of temperature profile from PFS measurements

XY0620; EGU2007-A-08699; PS2.5-1MO3P-0620
Martin-Torres, J.; Crisp, D.
Analysis of the Near-Infrared Emissions of CO₂ in the Atmosphere of Venus

XY0621; EGU2007-A-09528; PS2.5-1MO3P-0621
Yee, J. H.; Zhu, X.; Swartz, W. H.
Utilities of O₂(1D) Airglow Emission for Mars Atmospheric Ozone Remote Sensing

XY0622; EGU2007-A-10996; PS2.5-1MO3P-0622
Martin-Torres, J.; Mlynchzak, M.
Application of O₂ and OH SABER measurements and studies to the search of O₃ in other planetary atmospheres

XY0623; EGU2007-A-02095; PS2.5-1MO3P-0623
Rothman, L.S.; Gordon, I.E.
HITRAN beyond the terrestrial atmosphere

XY0624; EGU2007-A-04690; PS2.5-1MO3P-0624
Smith, M.; Malathy Devi, V.; Benner, D.
Pressure broadening, shifts, and line mixing in methane

XY0625; EGU2007-A-08424; PS2.5-1MO3P-0625
Fally, S.; Daumont, L.; Hermans, C.; Jenouvrier, A.; Vandaele, A. C.; Carleer, M.
HDO and D₂O line parameters by Fourier Transform Infrared Spectroscopy: The 8800-10800 cm⁻¹ spectral region

PS4 Small Bodies and Dust – Posters

Convener: Krueger, H.
Co-Convener(s): Schwehm, G., Müller, T.
Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0626; EGU2007-A-01007; PS4-1MO2P-0626
Kovalenko, N.; Churyumov, K.
Physical and dynamical peculiarities of Centaurs' population objects

XY0627; EGU2007-A-05550; PS4-1MO2P-0627
Shchuko, O.B.; Shchuko, S.D.; Kartashov, D.V.; Orosei, R.; Coradini, A.; OB
Kuiper-belt objects and 26Al

XY0628; EGU2007-A-08011; PS4-1MO2P-0628
Lin, H.-W.; Ip, W.-H.; Kinoshita, D.
Photometric Observations of Dwarf Planet and TNOs on Lulin Observatory

XY0629; EGU2007-A-01507; PS4-1MO2P-0629
Müller, T. G.; Barnes, P. J.
3.2 mm lightcurve observations of (4) Vesta and (9) Metis with the Australia Telescope Compact Array

XY0630; EGU2007-A-02763; PS4-1MO2P-0630
Kukko, A.; Kaasalainen, M.; **Kaasalainen, S.**
Laboratory Ground Truth for Space Remote Sensing: Asteroid Light Curve and Shape Model Simulation

XY0631; EGU2007-A-06797; PS4-1MO2P-0631
Coradini, A.; Ammannito, E.; Capaccioni, F.; Capria, M.T.; De Sanctis, M.C.; Filacchione, G.; Piccioni, G.; Dami, M.; Barbis, A.; Russell, C.T.
Imaging spectroscopy of millbillillie: looking forward to Vesta

XY0632; EGU2007-A-10494; PS4-1MO2P-0632
Virtanen, J.; Muinonen, K.
On asteroid impact risk analysis using short-arc data

XY0633; EGU2007-A-02350; PS4-1MO2P-0633
Spjuth, S.; Küppers, M.; Keller, H. U.
Optimizing the Rosetta flyby of asteroid 2867 Steins for OSIRIS

XY0634; EGU2007-A-05501; PS4-1MO2P-0634
Olsen, O.
Orbital resonance widths in an uniformly rotating second degree and order gravity field

XY0635; EGU2007-A-01757; PS4-1MO2P-0635
Delanoye, S. N.; De Keyser, J.
Study of C₂N₂ in a cometary coma

XY0636; EGU2007-A-08569; PS4-1MO2P-0636
Kawakita, H.
High-dispersion infrared spectroscopy of comet C/2004 Q2 (Machholz)

XY0637; EGU2007-A-02501; PS4-1MO2P-0637
Lin Zhong-Yi, Lin; Ip Wing-Huen, Ip
Activity and Morphology of Comet 73P/Schwassmann-Wachmann 3 close to its closest approach to the Earth

XY0638; EGU2007-A-02744; PS4-1MO2P-0638
Rengel, M.; Jones, G. H.; Küppers, M.; Keller, H. U.; Owens, M.
The Ion Tail of Comet Machholz observed by OSIRIS as a Tracer of the Solar Wind Velocity

XY0639; EGU2007-A-03367; PS4-1MO2P-0639
Capria, M.T.; Cremonese, G.; Bhardwaj, A.; De Sanctis, M.C.; Mazzotta Epifani, E.
High resolution monitoring of 9P/Tempel 1 during the flyby of DEEP IMPACT

XY0640; EGU2007-A-04436; PS4-1MO2P-0640
Barthelemy, M.; Zender, J.; Heather, D.; Vazquez, J.L.; Wirth, K.; Manaud, N.; Ortiz, I.; Dowson, J.; Arviset, C.; Parilla, E.
The ROSETTA data inside the Planetary Science Archive

XY0641; EGU2007-A-01800; PS4-1MO2P-0641
Myesen, E.

Content of radiometric data from a cometary orbiter: Rosetta

XY0642; EGU2007-A-07731; PS4-1MO2P-0642
Krüger, H.; Engrand, C.; Fischer, H.; Hilchenbach, M.; Kissel, J.; Stephan, T.; Thirkell, L.; Thomas, R.; Tieloff, M.; Varnuza, K.

Laboratory calibration of Rosetta/COSIMA: preparation for comet 67P/Churyumov-Gerasimenko

XY0643; EGU2007-A-10256; PS4-1MO2P-0643

Wallis, M. K.; Wickramasinghe, N. C.

Melt Structures in Comets

XY0644; EGU2007-A-08052; PS4-1MO2P-0644

Kobayashi, H.; Kawakita, H.

Fluorescence Model of Water Hot-Bands in Comets

XY0645; EGU2007-A-06557; PS4-1MO2P-0645

Agarwal, J.; Mueller, M.; Boehnhardt, H.; Reach, W.T.; Sykes, M.V.; Lien, D.J.; Gruen, E.

The large particle component of the dust from comet 67P/Churyumov-Gerasimenko

XY0646; EGU2007-A-01406; PS4-1MO2P-0646

Kitazawa, Y.; Noguchi, T.; Neish, M.J.; Yamagata, I.; Kimoto, Y.; Ishizawa, J.; Fujiwara, A.; Suzuki, M.; Yamamura, Y.; Yamane, S.

Passive Measurement of Dust Particles on the ISS (MPAC): Status Report of the Post Flight Analysis

XY0647; EGU2007-A-08310; PS4-1MO2P-0647

Sasaki, S.; Ohashi, H.; Hirai, T.; Muranaga, K.; Iwai, T.; Shoji, S.; Shibata, H.; Nogami, K.

Development of plane-parallel impact-ionization dust detectors with large aperture

XY0648; EGU2007-A-02230; PS4-1MO2P-0648

Rubin-Zuzic, M.; Thomas, H.; **Zhdanov, S.;** Morfill, G.

Circulation' dynamo in complex plasma

XY0649; EGU2007-A-06555; PS4-1MO2P-0649

Ueno, M.; Ishiguro, M.; Kimata, M.; Hong, S.; Satoh, T.; Iwagami, N.; Usui, F.; Uemizu, K.; Imamura, T.; Nakamura, M. Observations of Zodiacal Light during the cruising phase of PLANET-C/VCO Mission

XY0650; EGU2007-A-10810; PS4-1MO2P-0650

Espy, A.J.; Dermott, S.F.; Kehoe, T.J.

Sources of the Zodiacal Cloud

XY0651; EGU2007-A-10863; PS4-1MO2P-0651

Kehoe, T. J.; Dermott, S.F.; Espy, A. J.

Dynamical evolution of asteroidal dust particles and their orbital element distribution in near-Earth space

XY0652; EGU2007-A-00559; PS4-1MO2P-0652

Kozak, P.; Rozhilo, O.; Taranukha, Yu.

Mini-catalogue of kinematical and photometrical parameters for some TV meteors in 2002

XY0653; EGU2007-A-05519; PS4-1MO2P-0653

Barentsen, G.

Online reporting and automated analysis of visual meteor shower observations

XY0654; EGU2007-A-01754; PS5-1MO2P-0654

McKenna-Lawlor, S.M.P.; Kallio, E.; Lammer, H.; Schmidt, W.; Janhunen, P.

Modelled Solar Wind and Magnetospheric Ion Impact on Mercury's Surface in response to elevated, prolonged, solar activity in December, 2006

XY0655; EGU2007-A-01267; PS5-1MO2P-0655

Martinecz, C.; Fraenz, M.; Woch, J.; Krupp, N.; Rousos, E.; Dubinin, E.; Motschmann, U.; Boesswetter, A.; Simon, S.; Barabash, S.

Locations of the plasma boundaries at Venus - Venus Express ASPERA-4 observations

XY0656; EGU2007-A-01730; PS5-1MO2P-0656

Fraenz, M.; Dubinin, E.; Martinecz, C.; Roussos, E.; Woch, J.; Frahm, R.; Winningham, J.D.; Coates, A.J.; Soobiah, Y.; Lundin, R.

Photo Electron Boundaries at Mars and Venus

XY0657; EGU2007-A-06083; PS5-1MO2P-0657

Jarvinen, R.; **Kallio, E.;** Barabash, S.; Zhang, T. L.; Fedorov, A.; Sillanpää, I.; Janhunen, P.; ASPERA-4, Team Plasma interaction between Venus and the solar wind: A hybrid modelling study

XY0658; EGU2007-A-03899; PS5-1MO2P-0658

Ferrier, C.; Fedorov, A.; Sauvaud, J.A.; Mazelle, C.; Barabash, S.

A general shape and ion contents of the wakes behind Mars and Venus

XY0659; EGU2007-A-05053; PS5-1MO2P-0659

Blanco-Cano, X.; Omid, N.; Russell, C. T.

Foreshock cavities and ULF waves

XY0660; EGU2007-A-10016; PS5-1MO2P-0660

Anagnostopoulos, G.; **Tenentes, V.;** Vassiliadis, E.; Saris, E.; Lutsenko, V.; Mavromichalaki, H.

the quasi-perpendicular bow shock as a temporal barrier and accelerator of magnetospheric particles

XY0661; EGU2007-A-05683; PS5-1MO2P-0661

Bespalov, P.A.; Misonova, V.G.; Cowley, S.W.H

Formation of bi-directional field-aligned particle fluxes on auroral field lines by interaction with transient density cavities stimulated by kinetic Alfvén waves

XY0662; EGU2007-A-06124; PS5-1MO2P-0662

Kallio, E.; Fedorov, A.; Barabash, S.; Yamauchi, M.; Jarvinen, R.; Sillanpää, I.; Janhunen, P.; ASPERA-3, Team ASPERA-3/MEX observations at Mars and their interpretation by a hybrid model

XY0663; EGU2007-A-08340; PS5-1MO2P-0663

Yamauchi, M.; **Futaana, Y.;** Fedorov, A.; Dubinin, E.; Lundin, R.; Frahm, R.; Barabash, S.; Winningham, D.; THE ASPERA-3 TEAM

IMF direction derived from cycloid-like ion distributions observed by Mars Express

XY0664; EGU2007-A-02388; PS5-1MO2P-0664

Dubinin, E.; Chanteur, G.; Fraenz, M.; Modolo, R.; Woch, J.; Roussos, E.; Barabash, S.; Lundin, R.

Asymmetry of plasma fluxes at Mars. ASPERA-3 observations and hybrid simulations

XY0665; EGU2007-A-02780; PS5-1MO2P-0665

Edberg, N.; Lester, M.

Martian Magnetic Pileup Boundary Statistics from MGS MAG data

XY0666; EGU2007-A-01867; PS5-1MO2P-0666

Kleimann, J.; Fränz, M.; Woch, J.; Frahm, R.; Winningham, J.D.

Modeling of photoelectron spectra observed in the Martian ionosphere

PS5 Planetary Plasma Physics – Posters

Convener: Kallio, E.

Co-Convener(s): Bertucci, C.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0667; EGU2007-A-02809; PS5-1MO2P-0667

Chanteur, G.M.; Modolo, R.; Dubinin, E.; Fraenz, M.
Capture of solar wind alpha-particles by the Martian atmosphere

XY0668; EGU2007-A-03806; PS5-1MO2P-0668

Grodent, D.; Gérard, J.-C.; Radioti, A.; Bonfond, B.; Saglam, A.

Jupiter's main auroral oval: what main oval?

XY0669; EGU2007-A-05920; PS5-1MO2P-0669

Ge, Y. S.; Jian, L.; **Russell, C. T.**

Jovian Substorms: Comparison with their Terrestrial Counterparts

XY0670; EGU2007-A-00323; PS5-1MO2P-0670

Romanov, S. A.; Savin, S. P.; Amata, E.; Dunlop, M.

Low frequency wave dispersion relations in the outer cusp region

XY0671; EGU2007-A-01903; PS5-1MO2P-0671

Israelevich, P.; Ershkovich, A.

Bifurcation of the jovian magnetotail current

XY0672; EGU2007-A-06879; PS5-1MO2P-0672

Masters, A.; Dougherty, M. K.; Achilleos, N.; Bertucci, C.
Kronian bow shock survey: results from the first five orbits of the Cassini spacecraft

XY0673; EGU2007-A-03999; PS5-1MO2P-0673

Bebesi, Z.; Erdos, G.; Szego, K.; Arridge, C.S.; Coates, A.J.; Bertucci, C.; Dougherty, M.K.; Thomsen, M.F.; Young, D.T.
Particle dynamics at SLAMS observed at the bow shock of Saturn

XY0674; EGU2007-A-09737; PS5-1MO2P-0674

Jackman, C.M.; The Cassini MAPS team

A multi-instrument view of tail reconnection at Saturn

XY0675; EGU2007-A-10731; PS5-1MO2P-0675

Jones, G. H.; Roussos, E.; **Krupp, N.;** Woch, J.; Lagg, A.; Krimigis, S. M.

Short-lived dispersive electron events in Saturn's magnetosphere: A thunderstorm-induced phenomenon?

XY0676; EGU2007-A-10021; PS5-1MO2P-0676

Leisner, J. S.; **Russell, C. T.;** Russell, K. K.; Dougherty, M. K.

Constructing a stress index for the saturnian magnetosphere

XY0677; EGU2007-A-04639; PS5-1MO2P-0677

Persoon, A.M.; Gurnett, D.A.; Kurth, W.S.; Hospodarsky, G.B.; Santolik, O.; Coates, A.J.; McAndrews, H.J.
Electron densities from funnel-shaped auroral hiss emissions in Saturn's auroral zone

XY0678; EGU2007-A-04235; PS5-1MO2P-0678

Hospodarsky, G.; Averkamp, T.; Kurth, W.; Gurnett, D.; Dougherty, M.; Louarn, P.

Wave normal calculations of saturnian plasma waves at high magnetic latitudes using the Cassini radio and plasma wave science five-channel waveform receiver

XY0679; EGU2007-A-06202; PS5-1MO2P-0679

Sergis, N.; Krimigis, S.M.; Mitchell, D.G.; Hamilton, D.C.; Krupp, N.; Dougherty, M.

Plasma pressure in Saturn's magnetosphere dominated by energetic (> 10 keV) ions

XY0680; EGU2007-A-07107; PS5-1MO2P-0680

Louarn, P.; Kurth, W.S.; Hospodarsky, G. B.; Gurnett, D. A.
Could Saturn's magnetosphere behave as Jupiter's

XY0681; EGU2007-A-06530; PS5-1MO2P-0681

Morooka, M. W.; Modolo, R.; Wahlund, J.-E.; Gurnett, D. A.; Kurth, W. S.; Coates, A.; Lewis, G. R.; Arridge, C. S.; Dougherty, M. K.

Structure of the Co-rotating high Density Plasma Region in the Outer Magnetosphere of the Saturn

XY0682; EGU2007-A-06741; PS5-1MO2P-0682

Schippers, P.; THE MAPS TEAM

Analysis of inter - calibrated electron observations in

XY0683; EGU2007-A-03040; PS5-1MO2P-0683

Bonfond, B.; Gérard, J.-C.; Grodent, D.

Morphology of the Io footprint

XY0684; EGU2007-A-09628; PS5-1MO2P-0684

Szego, K.; Bertucci, C.; Coates, A.J.; Cray, F.; Erdos, G.; Hartle, R.; Sittler, E.C.; Young, D.T.

On the charged particle environment of Titan during the T9 flyby

XY0685; EGU2007-A-08316; PS5-1MO2P-0685

Ågren, K.; Westerberg, M.; Wahlund, J.-E.; Galand, M.; Müller-Wodarg, I.; Lummerzheim, D.; Kurth, W. S.; Coates, A.

Cold Plasma Observations in the Deep Ionosphere of Titan

XY0686; EGU2007-A-05327; PS5-1MO2P-0686

Modolo, R.; Wahlund, J.-E.; Canu, P.; Kurth, W.S.; Coates, A.; Bertucci, C.; Dougherty, M.

Structure of the wake of Titan from RPWS-LP observations

XY0687; EGU2007-A-00541; PS5-1MO2P-0687

Simon, S.; Kleindienst, G.; Boesswetter, A.; Bagdonat, T.; Motschmann, U.; Glassmeier, K. H.; Bertucci, C.; Dougherty, M. K.

3D multispecies hybrid simulations of Titan's highly variable plasma environment- Comparison with Cassini MAG data

XY0688; EGU2007-A-04507; PS5-1MO2P-0688

Wei, H. Y.; Russell, C. T.; Neubauer, F. M.; Wahlund, J. -E.; Bertucci, C.; Dougherty, M. K.

Interaction of the Saturnian magnetospheric plasma with Titan: comparison study with the Venus-Solar Wind interaction

XY0689; EGU2007-A-06479; PS5-1MO2P-0689

Lilensten, J.; Witasse, O.; **Simon, C.;** Gronoff, G.; Thissen, R.; Dutuit, O.; Alcaraz, C.; Soldi-Lose, H.; Franceschi, P.; Žabka, J.

Doubly-charged ions in planetary ionospheres

XY0690; EGU2007-A-00109; PS5-1MO2P-0690

Kryvdyk, V.

Particles dynamics and theirs non-thermal radiation in heterogeneous magnetosphere with variable magnetic fields

Seismology

SM3 Techniques of near-surface seismic and georadar imaging

Convener: Nielsen, L.

Co-Convener(s): Müller, C.

Lecture Room 26

Chairperson: MÜLLER, C.

15:30–15:45; EGU2007-A-08915; SM3-1MO4O-001

Tsoflis, G.; Stockli, D.; Christie, M.; Black, R.

Assessing off-fault deformation at an extensional tectonic setting using 3-D GPR (solicited)

15:45–16:00; EGU2007-A-02829; SM3-1MO4O-002

McClymont, A.; Green, A.; Nobes, D.

Visualizing active faults from 3-D GPR data

16:00–16:15; EGU2007-A-03689; SM3-1MO4O-003
Carbonell, R.; Perez-Estaun, A.; Carretero, G.; Bueno, J.
 Geophysical Characterization of Fractures Within a Granitic Pluton

16:15–16:30; EGU2007-A-10283; SM3-1MO4O-004
Grasmueck, M.; Viggiano, D.A.
 Near-Surface Time-Lapse and Polarization Surveying at Field Sites with Precision 3D GPR (solicited)

16:30–16:45; EGU2007-A-01744; SM3-1MO4O-005
Shtivelman, V.; Keydar, S.; Pelman, D.; Arzi, A.
 Imaging near-surface inhomogeneities using seismic diffracted waves

16:45–17:00; EGU2007-A-11050; SM3-1MO4O-006
Gazdova, R.; Vilhelm, J.
 Determination of dispersion curve of surface wave generated by impulsive source in shallow seismics

17:00 END OF SESSION

SM3 Techniques of near-surface seismic and georadar imaging – Posters

Convener: Nielsen, L.
 Co-Convener(s): Müller, C.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
 Poster Area Hall A
 Chairperson: N.N.

A0243; EGU2007-A-03992; SM3-1MO5P-0243
Guasch, Ll; Mateo, MA; Lo Iacono, C; Gràcia, E; Carbonell, R
 First attempt to evaluate the size of the peat-like deposits formed by the seagrass Posidonia Oceanica using high resolution seismics

A0244; EGU2007-A-10397; SM3-1MO5P-0244
Müller, C.; Woelz, S.; Jokisch, T.; Ersoy, Y.; Wendt, G.; Rabbel, W.
 Ultra-High-Resolution Marine 2D/3D Seismic Investigation of the Limantepe/Carantina Island Archaeological Site (Urla/Turkey)

A0245; EGU2007-A-03491; SM3-1MO5P-0245
Missiaen, T.; Slob, E.; Donselaar, M.E.
 Shallow geophysics applied in a tidal flat area

A0246; EGU2007-A-09204; SM3-1MO5P-0246
 Polom, U.; **Rühaak, W.;** Gorling, L.; Schulz, R.
 Shallow high resolution reflection seismic survey within a factorial building using shear-waves

A0247; EGU2007-A-03513; SM3-1MO5P-0247
Caselles, J.O.; Clapes, J.; Osorio, R.; Martínez, G.; Canas, J.A.; Pujades, Ll.G.; Pérez Gracia, V.
 Integrated geophysical survey for prospecting Mallorca cathedral soil

A0248; EGU2007-A-01410; SM3-1MO5P-0248
Kamkar-Rouhani, A.
 Seismic survey design for exploration of subsurface coal seams in Mazino and Parvadeh areas, Tabas, Iran

A0249; EGU2007-A-02883; SM3-1MO5P-0249
Valenta, J.
 Crack detection using a 3D seismic tomography

A0250; EGU2007-A-00241; SM3-1MO5P-0250
 Li, Y.-W.; **Jeng, Y.;** Chen, C.-S.
 Adaptive filtering of random noise in ultra-shallow seismic data

A0251; EGU2007-A-04765; SM3-1MO5P-0251
Kim, K. Y.; Hwang, Y. G.; Cheong, D. K.; Kim, H.-J.
 Geostatistical analysis of acoustic profiling data in the Soyang Lake, Korea

A0252; EGU2007-A-10698; SM3-1MO5P-0252
Bodet, L.; Clorennec, D.; Abraham, O.
 Near offsets effects on Rayleigh-wave dispersion measurements inferred from laser-Doppler physical modelling

A0253; EGU2007-A-04176; SM3-1MO5P-0253
Yedlin, M.; Pichot, C.; Aliferis, I.; Dauvignac, J.; Gaffet, S.
 Ultra-wideband microwave imaging of heterogeneities

A0254; EGU2007-A-10093; SM3-1MO5P-0254
Albrecht, C.; Schmidt, K.; Gerber, R.; Behrens, T.; Felix-Henningsen, P.; Scholten, T.
 Ground-Penetrating Radar investigation of representative transects in the Nidda catchment (Hesse/ Germany)

A0255; EGU2007-A-08043; SM3-1MO5P-0255
 Møller, I.; **Nielsen, L.;** Nielsen, L.H.; Johannessen, P.N.; Pejrup, M.
 Mapping the architecture of Danish Wadden Sea barrier islands using GPR

A0256; EGU2007-A-08217; SM3-1MO5P-0256
Nielsen, L.; Looms, M.C.; Hansen, T.M.; Cordua, K.S.; Jensen, K.H.; Binley, A.
 Accounting for data error and model correlation in hydro-geophysical cross-borehole GPR tomography studies

SM4 Computational wave propagation

Convener: Stupazzini, M.
 Co-Convener(s): Festa, G.
 Lecture Room 26
 Chairperson: N.N.

13:30–13:45; EGU2007-A-09911; SM4-1MO3O-001
Martin, R.; Komatitsch, D.; Ezziani, A.
 An optimized Convolution-Perfectly matched layer (CPML) absorbing technique for 3D Poroelastic seismic wave propagation based on finite difference and spectral element methods.

13:45–14:00; EGU2007-A-02929; SM4-1MO3O-002
 Seriani, G.; **Oliveira, S. P.**
 Optimum blended spectral element operators for forward modelling

14:00–14:15; EGU2007-A-03418; SM4-1MO3O-003
 Käser, M.; **Gallovic, F.;** Stupazzini, M.
 3D numerical Modeling of Effects of complicated Rupture Geometries and random Media on Earthquake Ground Motions

14:15–14:30; EGU2007-A-08951; SM4-1MO3O-004
Chaljub, E.; Tsuno, S.; Bard, P.-Y.; Cornou, C.
 Comparison of numerical predictions of 3D ground motion in the alpine valley of Grenoble, France

14:30–14:45; EGU2007-A-03924; SM4-1MO3O-005
Cesca, S.; Braun, T.; Tessmer, E.; Dahm, T.
 Influence of topography on the seismic waveforms associated to eruptive events at Stromboli volcano

14:45–15:00; EGU2007-A-02437; SM4-1MO3O-006
Rabinowitz, P.; Sun, C.
 High Resolution Image Stacking in Geophysical Seismic Data Processing

15:00 END OF SESSION

SM4 Computational wave propagation – Posters

Convener: Stupazzini, M.

Co-Convener(s): Festa, G.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 17:30–19:00

Poster Area Hall A

Chairperson: N.N.

A0257; EGU2007-A-05220; SM4-1MO5P-0257

Bouchaala, F.; Guennou, C.

A model for viscoelastic waves propagation and its validation

A0258; EGU2007-A-09516; SM4-1MO5P-0258

Martin, R.; Barucq, H.; Duquet, B.; Pratt, F.

A 3D Tracing Waves Method for the construction of seismic propagators: The 3D Global Screen Propagator.

A0259; EGU2007-A-00475; SM4-1MO5P-0259

Malyskyy, D.; Mujla, O.; Pak, R.; Kozlovskyj, E.

Recurrent modeling of seismic waves in layered media.

A0260; EGU2007-A-04250; SM4-1MO5P-0260

Yedlin, M.; Seymour, B.

Green's functions for the one-dimensional wave equation with variable coefficients

A0261; EGU2007-A-04299; SM4-1MO5P-0261

Stiller, M.; Jaeckel, K.-H.; Stier, F.; DESIRE group, &

Suppression of (sub)harmonic noise on Vibroseis data

A0262; EGU2007-A-06856; SM4-1MO5P-0262

Nguyen, X.N.; Heimann, S.; Dahm, T.

Modeling of Scholte wave transmission through the corrugated interface

A0263; EGU2007-A-08755; SM4-1MO5P-0263

Essen, K.; Bohlen, T.; Friederich, W.; Meier, T.

Modelling of Rayleigh-type seam waves in disturbed coal seams and around a coal mine roadway

A0264; EGU2007-A-10206; SM4-1MO5P-0264

Klien, E.; Haines, A. J.

The perfectly matched layer in a novel triangular finite element method for seismic waves

A0265; EGU2007-A-10386; SM4-1MO5P-0265

Krotkiewski, M.; Dabrowski, M.; Podladchikov, Y.Y.

High-resolution 3D modeling of wave scattering by an oil reservoir

A0266; EGU2007-A-02322; SM4-1MO5P-0266

Gallovic, F.; Barsch, R.; Igel, H.; Moczo, P.; Pazak, P.; Mai, P. M.; Qin, Y.

The SPICE Library: Codes, Training Material and Benchmarking in Computational Seismology

SM5 Seismic Imaging with Coda and Noise

Convener: Wegler, U.

Co-Convener(s): Korn, M., Margerin, L., Roux, P.

Lecture Room 26

Chairperson: N.N.

8:30–8:45; EGU2007-A-01797; SM5-1MO10-001

Lambert, M.; Schmalholz, S.; Podladchikov, Y.

Low-Frequency Anomalies in spectral Ratios of Microtremors above and nearby Hydrocarbon Reservoirs: A Case Study in Austria

8:45–9:00; EGU2007-A-00622; SM5-1MO10-002

Sens-Schönfelder, C.; Margerin, L.; Wegler, U.

Propagation and multiple conversion scattering of seismic energy in the earth's crust

9:00–9:15; EGU2007-A-03423; SM5-1MO10-003

De Siena, L.; Del Pezzo, E.; Tramelli, A.; Bianco, F.; De Lorenzo, S.

Testing coda methods in high resolution seismic imaging of active volcanoes: application to Campi Flegrei and Mt. Vesuvius.

9:15–9:30; EGU2007-A-01326; SM5-1MO10-004

Brenguier, F.; Shapiro, N. M.; Campillo, M.; Ferrazzini, V.; Nercissian, A.; Coutant, O.; Duputel, Z.

Seismic imaging and monitoring of the Piton de la Fournaise volcano from ambient seismic noise correlations

9:30–9:45; EGU2007-A-04601; SM5-1MO10-005

Yao, H.; van der Hilst, R. D.; Campman, X.; de Hoop, M. V.

Surface wave array tomography in SE Tibet with empirical Green's functions from ambient noise, direct waves, and coda waves

9:45–10:00; EGU2007-A-07918; SM5-1MO10-006

Draganov, D.; Wapenaar, K.; Mulder, W.A.; Singer, J.; Verdel, A.

Retrieving reflection arrivals from seismic background-noise field data using seismic interferometry

10:00 END OF SESSION

SM5 Seismic Imaging with Coda and Noise – Posters

Convener: Wegler, U.

Co-Convener(s): Korn, M., Margerin, L., Roux, P.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 13:30–15:00

Poster Area Hall A

Chairperson: N.N.

A0267; EGU2007-A-04988; SM5-1MO3P-0267

Krasnoshchekov, D.N.; Kaazik, P.B.; Ovtchinnikov, V.M.

PKiKP coda features at precritical distances

A0268; EGU2007-A-10593; SM5-1MO3P-0268

Ruigrok, E.; Campman, X.; Draganov, D.; Wapenaar, K.; Rondenay, S.

Application of seismic interferometry to teleseismic array data

A0269; EGU2007-A-03396; SM5-1MO3P-0269

Landes, M.; Shapiro, N.M.; Stutzmann, E.

Crustal and uppermost mantle structure beneath Azores Islands from ambient seismic noise correlations.

A0270; EGU2007-A-06476; SM5-1MO3P-0270

Pérez-Ruiz, J. A.; Luzón, F.; Sánchez-Sesma, F. J.

Retrieval of elastic Green's tensor near a cylindrical inhomogeneity from vector correlations

A0271; EGU2007-A-00828; SM5-1MO3P-0271

Sens-Schönfelder, C.; Wegler, U.

Environmental influences on seismic velocities inside Merapi volcano inferred with Passive Image Interferometry

A0272; EGU2007-A-01983; SM5-1MO3P-0272

Wegler, U.; Sens-Schönfelder, C.

Decrease of crustal shear wave velocity associated with the 2004, Mw = 6.6 Mid-Niigata earthquake

A0273; EGU2007-A-02986; SM5-1MO3P-0273

Pandolfi, D.; Bean, C.J.; Saccorotti, G.

seismic velocity variations at Mt. Etna during the 2002-2003 eruption measured using the Coda Wave Interferometry technique

A0274; EGU2007-A-02305; SM5-1MO3P-0274

Tramelli, A.; **Del Pezzo, E.;** Fehler, M.C.

Scattering images of active volcanoes: Campi Flegrei and Vesuvius

A0275; EGU2007-A-07881; SM5-1MO3P-0275
Steiner, B.; Saenger, E.H.; Schmalholz, S.M.
 Detection of hydrocarbon reservoirs in applying time reverse modeling for microtremors

A0276; EGU2007-A-03433; SM5-1MO3P-0276
Kuehn, D.; Ohrnberger, M.; Vollmer, D.; Dahm, T.; Scherbaum, F.; Dehghani, A.
 Imaging a shallow salt diapir beneath the densely built-up city area of Hamburg, Northern Germany, using ambient noise recordings

A0277; EGU2007-A-03321; SM5-1MO3P-0277
Frehner, M.; Schmalholz, S.M.; Podladchikov, Y.; Holzner, R.
 Low frequency spectral modification of geoseismic background noise due to interaction with oscillating fluids entrapped in subsurface porous rocks

A0278; EGU2007-A-04047; SM5-1MO3P-0278
Przybilla, J.; **Korn, M.**
 Complete vector-wave envelopes in 3D random media based on radiative transfer theory and with Born scattering coefficients

A0279; EGU2007-A-07411; SM5-1MO3P-0279
SAHIN, S.
 The Scattering Attenuation of Seismic Wave In Southwest Anatolia

A0280; EGU2007-A-00314; SM5-1MO3P-0280
Mahood, M.; Hamzehloo, H.
 Low Coda Qc in the Zarand region East-Central of Iran

SM7 Testing Current Approaches to Inversion for Earth Structure and Earthquake Sources: Resolution, Robustness and Reliability

Convener: Maupin, V.
 Co-Convener(s): Mai, P., Ampuero, J.
 Lecture Room 26
 Chairperson: N.N.

10:30–10:45; EGU2007-A-04373; SM7-1MO2O-001
Boschi, L.; Fry, B.; Peter, D.; Ekstrom, G.; Giardini, D.
 Towards higher Resolution Tomography at the global and regional Scales

10:45–11:00; EGU2007-A-08655; SM7-1MO2O-002
Lebedev, S.
 Benchmarking tomographic techniques with SPICE synthetic datasets and the validation and testing of the Automated Multimode Inversion (AMI)

11:00–11:15; EGU2007-A-04061; SM7-1MO2O-003
Jacobsen, B.H.
 Identifying adverse effects of wrong sensitivity kernels in tomographic inversion

11:15–11:30; EGU2007-A-05119; SM7-1MO2O-004
Uchide, T.; Ide, S.
 Multi-scale Slip Inversion – Development and Application

11:30–11:45; EGU2007-A-10050; SM7-1MO2O-005
Delouis, B.; **Vallée, M.;** Cruz-Atienza, V.
 The Mw=6.3 Saintes earthquake (West Indies) : source kinematics determination and uncertainties in a poorly known crustal structure

11:45–12:00; EGU2007-A-07351; SM7-1MO2O-006
Mai, P.M.; Monelli, D.; Festa, G.; Francois-Holden, C.; Burjanek, J.; Di Carli, S.; Delouis, B.; Zahradnik, J.; Ampuero, J.-P.; Madariaga, R.
 Source-inversion blindtest: initial results and further developments

12:00 END OF SESSION

SM7 Testing Current Approaches to Inversion for Earth Structure and Earthquake Sources: Resolution, Robustness and Reliability – Posters

Convener: Maupin, V.
 Co-Convener(s): Mai, P., Ampuero, J.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
 Poster Area Hall A
 Chairperson: N.N.

A0281; EGU2007-A-06864; SM7-1MO5P-0281
Deuss, A.; Woodhouse, J.H.
 Long-period mantle structure from Earth's free oscillation spectra

A0282; EGU2007-A-08466; SM7-1MO5P-0282
Kammann, P.
 A new Multiscale Method for Earth Structure Determination from normal Mode Splitting

A0283; EGU2007-A-05064; SM7-1MO5P-0283
Qin, Y.; Capdeville, Y.; Maupin, V.; Montagner, J.; Boschi, L.
 Inversion of SPICE benchmark dataset and test of global tomographic models

A0284; EGU2007-A-02924; SM7-1MO5P-0284
Bodin, T.; **Maupin, V.;** Pedersen, H.A.
 Testing the resolution of surface wave velocity measurements over small-aperture arrays

A0285; EGU2007-A-02368; SM7-1MO5P-0285
Svenningsen, L.; **Jacobsen, B.H.**
 Improving linearity and uniqueness in seismological receiver function inversion

A0286; EGU2007-A-09753; SM7-1MO5P-0286
Monteiller, V.; Valette, B.
 Tomography by travel time analysis : a multiscale approach

A0287; EGU2007-A-02983; SM7-1MO5P-0287
Loris, I.; Nolet, G.; Daubechies, I.; Dahlen, F.A.
 Tomographic inversion using L1-norm regularization of wavelet coefficients

A0288; EGU2007-A-04889; SM7-1MO5P-0288
DÄ??bski, W.
 Inverse theory: from least squares optimization to Monte Carlo sampling

A0289; EGU2007-A-02582; SM7-1MO5P-0289
Ruzek, R.
 ANNO - a powerful tool for solving non-linear equations

A0290; EGU2007-A-00474; SM7-1MO5P-0290
Smaglichenko, T.A.
 New differentiated approach for seismic tomography

A0291; EGU2007-A-05465; SM7-1MO5P-0291
Aochi, H.; Salichon, J.; Lemoine, A.
 Validation of teleseismic inversion of the 2004 Les Saintes, Lesser Antilles, earthquake (Mw6.3) from 3D FD forward modeling

A0292; EGU2007-A-08491; SM7-1MO5P-0292
Benetatos, C.; Dreger, D.; **Kiratz, A.**
 Synthetic tests to explore the resolution of slip models obtained from the inversion of teleseismic waveforms: complex and segmented rupture of the 14 August 2003, Mw6.2 Lefkada (Ionian Islands) earthquake

A0293; EGU2007-A-07683; SM7-1MO5P-0293

Francois-Holden, C

Nonlinear kinematic inversion applied to the SPICE blindtest on kinematic source inversion

A0294; EGU2007-A-05605; SM7-1MO5P-0294

Buehler, J.S.; Mai, P.M.; Jonsson, S.

Source-modelling of the 2003 Bam earthquake using multiple data sets

A0295; EGU2007-A-04177; SM7-1MO5P-0295

Monelli, D.; Mai, P. M.

The 2000 Western Tottori earthquake source imaged through inversion of strong motion data

A0296; EGU2007-A-04158; SM7-1MO5P-0296

Monelli, D.; Mai, P.M.

Bayesian estimation of kinematic earthquake source parameters through non-linear inversion of strong motion data

SM16 New approaches to seismological data mining and real time seismology

Convener: Rietbrock, A.

Co-Convener(s): Ohrnberger, M.

Lecture Room 26

Chairperson: N.N.

17:30–17:45; EGU2007-A-07758; SM16-1MO5O-001

Riggelsen, C.; Ohrnberger, M.; Scherbaum, F.; Koehler, A.

Graphical Models for Automatic Seismic Signal Classification

17:45–18:00; EGU2007-A-02609; SM16-1MO5O-002

Baig, A.; Campillo, M.; Stehly, L.

Data-adaptive filtering of seismic noise correlations

18:00–18:15; EGU2007-A-05106; SM16-1MO5O-003

Olivieri, M.; **Michelini, A.;** Lomax, A.

New Robust automatic Earthquake Locations for the Italian Region

18:15–18:30; EGU2007-A-05362; SM16-1MO5O-004

Pinsky, V.; Horiuchi, S.

Real-time robust location algorithm for the early warning system

18:30–18:45; EGU2007-A-02972; SM16-1MO5O-005

Hildyard, M.; Rietbrock, A.

Real-time magnitude estimation from first P-arrivals using an aftershock dataset

18:45–19:00; EGU2007-A-09654; SM16-1MO5O-006

Scognamiglio, L.; Tinti, E.; Lauciani, V.; Quintiliani, M.; Michelini, A.; Malagnini, L.; Dreger, D.

Near real-time regional moment tensor estimation using Italian broadband stations

19:00 END OF SESSION

SM16 New approaches to seismological data mining and real time seismology – Posters

Convener: Rietbrock, A.

Co-Convener(s): Ohrnberger, M.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 13:30–15:00

Poster Area Hall A

Chairperson: N.N.

A0297; EGU2007-A-02006; SM16-1MO3P-0297

Koehler, N.; Wenzel, F.; Erdik, M.; Zschau, J.; Boese, M.

An Earthquake Disaster Information system for the Marmara region in Turkey (EDIM)

A0298; EGU2007-A-02195; SM16-1MO3P-0298

Nippres, S.E.J.; Rietbrock, A.

Robust automatic P-phase picking using the ANCORP continuous seismic dataset

A0299; EGU2007-A-03843; SM16-1MO3P-0299

Beyreuther, M.; Wassermann, J.

Continuous Earthquake Detection and Classification using Hidden Markov Models

A0300; EGU2007-A-06321; SM16-1MO3P-0300

Köhler, A.; Ohrnberger, M.; Scherbaum, F.

Clustering of seismic signals in wavefields of complex composition using self-organizing maps

A0301; EGU2007-A-06995; SM16-1MO3P-0301

Kueperkoch, L.; Bruestle, A.; Meier, T.; Friederich, W.

Automatic signal detection using higher order statistics

A0302; EGU2007-A-07156; SM16-1MO3P-0302

Barsch, R.; Igel, H.; Wassermann, J.

Web-based technology for storage, processing, and simulation of multi-component data in seismology – First steps towards a new design

A0303; EGU2007-A-09219; SM16-1MO3P-0303

Weber, B.; Becker, J.; Hanka, W.; Heinloo, A.; Hoffmann, M.

Kraft, T.; Pahlke, D.; Reinhardt, J.; Saul, J.; Thoms, H

SeisComp3 - automatic and interactive real time data processing

Soil System Sciences

SSS2 Soil as a record of the past

Convener: Carnicelli, S.

Co-Convener(s): Davidson, D., Courty, M., Pustovoytov, K., Durand, N., Kühn, P., Deckers, K.

Lecture Room 33

Chairperson: DAVIDSON, D.A.

8:30–8:45; EGU2007-A-01861; SSS2-1MO1O-001

Golding, K.A.; Davidson, D.A.

Evidence for waste management and disposal in Scottish Royal Burghs

8:45–9:00; EGU2007-A-02627; SSS2-1MO1O-002

Adderley, P.; Magnavita, C.

Early cultural land-use practices in North East Nigeria: Are human responses to past-climate changes evident in the soils-based record?

9:00–9:15; EGU2007-A-10859; SSS2-1MO1O-003

Courty, M.A.; Brasseur, B.; Fedoroff, N.

The soil record of instantaneous processes linked to cosmic events and related consequences

9:15–9:30; EGU2007-A-02129; SSS2-1MO1O-004

KIM, KJY

Paleosol Stratigraphy and Geochronological Implication in the paleolithic sites of South Korea

9:30–9:45; EGU2007-A-10257; SSS2-1MO1O-005

Durand, N.; Hamelin, B.; Deschamps, P.; Gunnell, Y.; Curmi, P.

Timing of calcrete development using U-Th-isochrone method: results and limitations from two sites in peninsular India

9:45–10:00; EGU2007-A-05803; SSS2-1MO1O-006

Breecker, D.; Sharp, Z.; McFadden, L.

Seasonal variation in the carbon isotope composition and concentration of soil CO₂ gives insight to the formation of modern pedogenic carbonate

10:00 END OF SESSION

SSS2 Soil as a record of the past – Posters

Convener: Carnicelli, S.

Co-Convener(s): Davidson, D., Courty, M., Pustovoytov, K., Durand, N., Kühn, P., Deckers, K.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 17:30–19:00

Poster Area Hall A

Chairperson: PUSTOVOYTOV, K.

A0304; EGU2007-A-06320; SSS2-1MO5P-0304

Schneider, H.; Höfer, D.; Trog, C.; Hilbich, C.; Daut, G.; Mäusbacher, R.

Geoarcheological reconstruction of the coast development in the Algarve Region (South Portugal)

A0305; EGU2007-A-10456; SSS2-1MO5P-0305

Miller, C.; Goldberg, P.; Schiegl, S.; Conard, N.

The micromorphology of Paleolithic cave sites of the Swabian Jura, Baden-Württemberg, Germany

A0306; EGU2007-A-02092; SSS2-1MO5P-0306

Davidson, D.; Wilson, C.; Blunn, M.; Cairns, D.; Cowie, J.

SASSA: a soil analysis support system for archaeologists

A0307; EGU2007-A-07432; SSS2-1MO5P-0307

Pirson, S.; **Court-Picon, M.;** Damblon, F.; Haesaerts, P.; Debenham, N.; Draily, C.

Belgian cave entrance and rock-shelter sequences as palaeoenvironmental and palaeoclimatic data recorders: the example of the Walou cave multi-proxy study.

A0308; EGU2007-A-07164; SSS2-1MO5P-0308

Bajnóczi, B.

Pedogenic carbonate in Quaternary paleosols from Hungary

A0309; EGU2007-A-10880; SSS2-1MO5P-0309

Courty, M.-A.; Lebel, S.; Rimmer, S. M.

Climate fluctuations during OIS 6-7 reflected in the dynamic of pedogenic carbonates at the Bau de l'Aubesier rockshelter, Monieux, Vaucluse (France)

A0310; EGU2007-A-02731; SSS2-1MO5P-0310

Kuzyakov, Y.; Schevtzova, E.; Pustovoytov, K.

Principles and potential of ¹⁴C labeling for studying re-crystallization of soil carbonates

A0311; EGU2007-A-05549; SSS2-1MO5P-0311

Pampura, T.; Demkin, V.; Probst, A.

Investigation of lead origin and fate in soils using geochemical and archeological methods

A0312; EGU2007-A-09477; SSS2-1MO5P-0312

Hannam, J.A.

Soil magnetism and soil processes in the spatial domain: Applications for landmine clearance

A0313; EGU2007-A-10711; SSS2-1MO5P-0313

Komoróczy, Z.; Székely, B.; Molnár, G.; Catt, L.; Booth, A.; Dövényi, P.

Multimethod geophysical study of anomalous light-grey stripes in Quaternary sediments revealed by archive aerial photography

A0314; EGU2007-A-05793; SSS2-1MO5P-0314

Dirksen, O.; Danhara, T.; Takahara, H.; Ikeda, Sh.; Sasaki, N.

Marker ash layers of Central and Southern Kamchatka – unique stratigraphic tool for detail paleoenvironmental studies

A0315; EGU2007-A-06522; SSS2-1MO5P-0315

Ciampalini, R.; Benvenuti, M.; **Carnicelli, S.**

Unconformities, surfaces and soils: integrating soil-, morpho- and sedimentary stratigraphy

SSS10 3D Visualization and Quantification of Soil Pore Geometries (co-listed in HS)

Convener: Peth, S.

Co-Convener(s): Mele, G., Smucker, A.

Lecture Room 33

Chairperson: PETH, S.

10:30–10:45; EGU2007-A-11298; SSS10-1MO2O-001

Favretto, S.; Schena, G.

TOMOLAB: a new X-ray microtomography facility for geosciences applications

10:45–11:00; EGU2007-A-01625; SSS10-1MO2O-002

Sleutel, S.; Cnudde, V.; Masschale, B.; Vlassenbroek, J.;

Dierick, M.; Van Hoorebeke, L.; Jacobs, P.; De Neve, S.

Application of X-ray computed tomography for the visualisation of the soil microstructure and soil organic matter

11:00–11:15; EGU2007-A-08186; SSS10-1MO2O-003

Weller, U.; Kuka, K.; Vogel, H.-J.

Quantitative morphology of soil porosity based on X-ray tomography

11:15–11:30; EGU2007-A-10901; SSS10-1MO2O-004

Mele, G.; Kaestner, A.; Terribile, F.

Soil microtomography - Pores quantification by X-ray and serial sectioning

11:30–11:45; EGU2007-A-02754; SSS10-1MO2O-005

Kulenkampff, J.; Richter, M.; Gründig, M.; Seese, A.

Observation of transport processes in soils and rocks with Positron Emission Tomography

11:45–12:00; EGU2007-A-03540; SSS10-1MO2O-006

Carminati, A.; Kaestner, A.; Lehmann, P.; Fluehler, H.

Water distribution in and between soil aggregates: X-ray tomography and modeling

12:00 END OF SESSION

SSS10 3D Visualization and Quantification of Soil Pore Geometries (co-listed in HS) – Posters

Convener: Peth, S.

Co-Convener(s): Mele, G., Smucker, A.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 17:30–19:00

Poster Area Hall A

Chairperson: MELE, G.

A0316; EGU2007-A-10980; SSS10-1MO5P-0316

Pereira, M.F.L.; **Cruvinel, P.E.;** Costa, L. F.; Silva, A.M.

Three-dimensional visualization tool based on parallel algorithms and graphical library VTK for agricultural tomography

A0317; EGU2007-A-11349; SSS10-1MO5P-0317

Bizzarro, R.; Di Matteo, B.; Mele, G.

3D reconstruction of soil samples: an automated sequential removal technique

A0318; EGU2007-A-08895; SSS10-1MO5P-0318

Papadopoulos, A.; Bird, N R A; Whitmore, A; Mooney, S J

Visualisation of intra-aggregate pore space in 3-D and effects of perimeter fractal dimension on pore network stability

A0319; EGU2007-A-11020; SSS10-1MO5P-0319
Kuka, K.; Weller, U.; Vogel, H.J.; Franko, U.
 3D-Visualization of soil structure in two different plots of
 'Static Fertilization experiment' Bad Lauchstädt

A0320; EGU2007-A-01056; SSS10-1MO5P-0320
Peth, S.; Horn, R.; Smucker, A.; Beckmann, F.
 Visualizing and quantifying pore space geometry of two
 contrasting soil aggregates

A0321; EGU2007-A-04930; SSS10-1MO5P-0321
Badorreck, A.; Gerke, H.H.; Vontobel, P.; Hüttl, R.-F.
 Characterization of flow in lignitic mine soil using neutron
 tomography

SSS12 Transport in preferential flow domains of the soil porous system: Measuring, interpretation, models, upscaling (co-listed in HS)

Convener: Kutilek, M.
 Co-Convener(s): Coppola, A., Gerke, H., Pagliai, M.
 Lecture Room 33
 Chairperson: KUTILEK, M.

13:30–14:00; EGU2007-A-08862; SSS12-1MO3O-001
Vogel, H.-J.
 Preferential flow as a consequence of soil structure - mea-
 surements, models, predictability (solicited)

14:00–14:15; EGU2007-A-06486; SSS12-1MO3O-002
Coppola, A.; Comegna, A.; Basile, A.
 Effective hydraulic properties and temporal evolution of soil
 water content profiles of aggregated soils

14:15–14:30; EGU2007-A-02813; SSS12-1MO3O-003
Lipiec, J.; Siczek, A.; Nosalewicz, A.; Kotowska, U.
 Leaching of some agricultural chemicals in relation to pore
 structure and preferential flow

14:30–14:45; EGU2007-A-03477; SSS12-1MO3O-004
Kodesova, R.; Kocarek, M.; Kodes, V.; Kozak, J.; Zigova, A.
 Impact of varying micromorphology on water flow and solute
 transport

14:45–15:00; EGU2007-A-05504; SSS12-1MO3O-005
Gerke, H.H.; Badorreck, A.
 Single- and dual-porosity modeling of flow in reclaimed
 mine soil cores with embedded lignitic fragments

15:00 COFFEE BREAK

Chairperson: COPPOLA, A.

15:30–16:00; EGU2007-A-01644; SSS12-1MO4O-001
Or, D
 Limits of applicability of the Richards equation from scaling
 capillary, gravity and viscous forces in unsaturated porous
 media (solicited)

16:00–16:15; EGU2007-A-01928; SSS12-1MO4O-002
Germann, P. F.; Hincapié, I. A.
 Rivulet flow puts preferential flow between Darcy's law and
 Richards' equation

16:15–16:30; EGU2007-A-03732; SSS12-1MO4O-003
Carminati, A.; Fluehler, H.
 Water flow through aggregated soils: the role of the contacts

16:30–16:45; EGU2007-A-05562; SSS12-1MO4O-004
Zehe, E.; Samaniego, L.
 Stochastic modelling of preferential transport at the field
 scale: a structural approach

16:45–17:00; EGU2007-A-07062; SSS12-1MO4O-005
Tarquis, A.M.; Bird, N.R.; Nobles, M.; McInnes, K.J.;
 McMichael, B.L.
 Statistical description of a structured clay soil using dye
 infiltration experiments

17:00 END OF SESSION

SSS12 Transport in preferential flow domains of the soil porous system: Measuring, interpretation, models, upscaling (co-listed in HS) – Posters

Convener: Kutilek, M.
 Co-Convener(s): Coppola, A., Gerke, H., Pagliai, M.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
 Poster Area Hall A
 Chairperson: GERKE, H.H.

A0322; EGU2007-A-02213; SSS12-1MO5P-0322
Alaoui, A.; Goetz, B.
 Dye tracer and MACRO model to investigate macropore flow

A0323; EGU2007-A-01974; SSS12-1MO5P-0323
Mirzaei, M.; Das, D.B.
 Dynamic effect in Pc-S relationship for two-phase flow in
 3D heterogeneous porous media: experiment and modeling

A0324; EGU2007-A-03609; SSS12-1MO5P-0324
Stumpp, C.; Maloszewski, P.; Stichler, W.; Fank, J.
 Quantification of preferential flow in cropped lysimeters
 using environmental isotopes

A0325; EGU2007-A-02845; SSS12-1MO5P-0325
Koehne, J.M.
 Model simulation of solute and pesticide transport in soils
 with preferential flow paths: a review

A0326; EGU2007-A-02864; SSS12-1MO5P-0326
Köhne, J.M.; Simunek, J.
 Modeling surface runoff and infiltration in soil with mobile
 and immobile water regions

A0327; EGU2007-A-10619; SSS12-1MO5P-0327
Gärdenäs, A.; Šimunek, J.; Jarvis, N.; van Genuchten, M.
 Th
 Two-dimensional modelling of preferential water flow and
 pesticide transport from a tile-drained field.

A0328; EGU2007-A-04193; SSS12-1MO5P-0328
Sander, T.; Gerke, H. H.
 Modelling earthworm induced preferential flow in a Paddy
 rice soil

A0329; EGU2007-A-06502; SSS12-1MO5P-0329
Coppola, A.; Comegna, A.; Basile, A.
 Water flow in soils related to local-scale heterogeneities:
 modeling and validation experiments

A0330; EGU2007-A-06605; SSS12-1MO5P-0330
Böhm, C. ; Ellerbrock, R.H.; Gerke, H.H.
 Method for characterising small-scale composition of
 organic matter on structural soil surfaces using diffuse
 reflectance spectroscopy

A0331; EGU2007-A-08597; SSS12-1MO5P-0331
Dohnal, M.; Dusek, J.; Vogel, T.; Cislerova, M.; Lichner, L.
 Dye tracer infiltration into macroporous soil simulated by a
 dual-permeability model

A0332; EGU2007-A-09978; SSS12-1MO5P-0332
Germer, K.; Braun, J.; Färber, A.
 Flow through and around an artificial macropore: experi-
 mental investigations in a specific laboratory soil column

A0333; EGU2007-A-11275; SSS12-1MO5P-0333
Braudeau, E.; Salahat, M.; Mohtar, E.H.; Najim, M.A.
 Soil water potential: measurement and modeling of the tensiometric curve

A0334; EGU2007-A-03518; SSS12-1MO5P-0334
Kutilek, M.; Jendele, L.; Krejča, M.
 Comparison of empirical, semi-empirical and physically based models of soil hydraulic functions

A0335; EGU2007-A-05905; SSS12-1MO5P-0335
Deb, S. K.; Miyazaki, T.; Kojima, M.
 The diversion capacity of curve-shaped capillary barrier interface

A0336; EGU2007-A-01539; SSS12-1MO5P-0336
Hincapié, I.; Fässler, J.; Vogt, P.; Germann, P.
 Rivulet approach to preferential infiltration in a soil column

A0337; EGU2007-A-03726; SSS12-1MO5P-0337
Rajkai, RK; **Fodor, FN**
 Compaction effect on soil hydraulic conductivity

A0338; EGU2007-A-03743; SSS12-1MO5P-0338
Martins da Silva, M.; **Köhne, S.;** Köhne, J.M.; Lennartz, B.
 Are redox-patterns of Stagnosol subsoils related to preferential flow paths?

A0339; EGU2007-A-10595; SSS12-1MO5P-0339
Trinks, S.; Stoffregen, H.; Wessolek, G.
 Modelling the heterogeneity of artificial debris layers of urban soils

A0340; EGU2007-A-11276; SSS12-1MO5P-0340
Ghanbarian, B.; Liaghat, A.M.
 Prediction soil water retention curve from soil particle-size analysis using fractal geometry

A0341; EGU2007-A-01819; SSS12-1MO5P-0341
Skierucha, S
 Temperature correction of TDR determined soil water content values

A0342; EGU2007-A-02696; SSS12-1MO5P-0342
Lehmann, P.; Shokri, N.; Vontobel, P.; Or, D.
 Preferential evaporation in the presence of textural contrasts

A0343 Preferential flow and soil porous systems

Solar-Terrestrial Sciences

ST2/PS5.2 Theory and simulations of solar system plasmas (co-organized by PS) – Posters

Convener: Belmont, G.
 Co-Convener(s): Büchner, J., Leubner, M., Palmroth, M.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 15:30–17:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0691; EGU2007-A-00526; ST2/PS5.2-1MO4P-0691
Panov, E.V.; Buechner, J.; Fraenz, M.; Korth, A.; Fornacon, K.-H.; Reme, H.
 Magnetopause current sheet thickness and surrounding magnetic turbulence

XY0692; EGU2007-A-00884; ST2/PS5.2-1MO4P-0692
Lee, K. W.; Elkina, N.V.; Buechner, J.
 Linearly unstable modes and nonlinear saturation mechanism in coronal current-driven plasma

XY0693; EGU2007-A-03275; ST2/PS5.2-1MO4P-0693
Garcia, G.; **Forme, F.**
 A collisional kinetic model of the large field-aligned currents in the auroral ionosphere

XY0694; EGU2007-A-10422; ST2/PS5.2-1MO4P-0694
Guio, P.; Forme, F.
 Zakharov simulations of Langmuir turbulence: effects on waves observed by incoherent scattering

XY0695; EGU2007-A-07438; ST2/PS5.2-1MO4P-0695
Mottez, F.; Belmont, G.; Chust, T.; Hess, S.
 Particular initial perturbations that kill Landau damping.

XY0696; EGU2007-A-10524; ST2/PS5.2-1MO4P-0696
Roth, I.
 Bootstrap electron energization at solar and planetary environments.

XY0697; EGU2007-A-11042; ST2/PS5.2-1MO4P-0697
Cai, D.; Lembege, B.
 Hysteresis of Magnetospheric Structure Varying Southward IMF in Global Three-dimensional Electro-Magnetic Particle Simulation

XY0698; EGU2007-A-07011; ST2/PS5.2-1MO4P-0698
Cai, D.; Lembege, B.; Nishikawa, K-I
 Current Disruption and Dynamics of the tail in 3D PIC simulation of the magnetosphere during IMF rotation from north to south

XY0699; EGU2007-A-06288; ST2/PS5.2-1MO4P-0699
Lepreti, F.; Carbone, V.; Veltri, P.
 Dynamical model for the spatio-temporal intermittency of the turbulent energy cascade: first results and possible applications to coronal loops

XY0700; EGU2007-A-06129; ST2/PS5.2-1MO4P-0700
Sulem, P.L.; Passot, T.; Borgogno, D.
 Generalized MHD for weakly nonlinear waves in the gyrokinetic regime

XY0701; EGU2007-A-00553; ST2/PS5.2-1MO4P-0701
Servidio, S.; Carbone, V.; Veltri, P.; Primavera, L.
 Nonlinear Dynamics of Hall MHD Equations: Spontaneous Excitation of Magnetosonic Fluctuations

XY0702; EGU2007-A-00654; ST2/PS5.2-1MO4P-0702
Buchlin, E.; Verdini, A.; Velli, M.; Cargill, P. J.
 Turbulence in anisotropic MHD plasmas

XY0703; EGU2007-A-00655; ST2/PS5.2-1MO4P-0703
Galtier, S.; **Buchlin, E.**
 Multi-scale Hall-MHD turbulence in the solar wind

XY0704; EGU2007-A-01194; ST2/PS5.2-1MO4P-0704
Onofri, M.; Veltri, P.
 Spectral anisotropy in magnetohydrodynamic turbulence

XY0705; EGU2007-A-01484; ST2/PS5.2-1MO4P-0705
Mann, G.; Warmuth, A.; Aurass, H.
 Electron acceleration by the reconnection outflow shock during solar flares

XY0706; EGU2007-A-01764; ST2/PS5.2-1MO4P-0706
Faganello, M.; **Califano, F.;** Pegoraro, F.
 Two Fluid collisionless simulations on the Kelvin - Helmholtz instability and vortex induced inertial reconnection in the external region of the magnetotail

XY0707; EGU2007-A-01769; ST2/PS5.2-1MO4P-0707
Kostomarov, D.P.; Echkina, E. Y.; Inovenkov, I. N.; Reutov, M. V.
 The magnetic reconnection in 3D structurally unstable solar plasma configuration

XY0708; EGU2007-A-01981; ST2/PS5.2-1MO4P-0708
Fahr, H.J.; Siewert, M.
 Changing ion distribution functions at the passage of the solar wind plasma over the termination shock

XY0709; EGU2007-A-01982; ST2/PS5.2-1MO4P-0709
Siewert, M.; Fahr, H.-J.

Analytic relations between the upstream and downstream distribution functions of an ion plasma crossing an MHD shock

XY0710; EGU2007-A-01694; ST2/PS5.2-1MO4P-0710
Toth, G.; **Gombosi, T.I.;** Sokolov, I.V.; De Zeeuw, D.L.; Ridley, A.J.; Manchester, W.B.; Ma, Y.
 Validation of the Space Weather Modeling Framework

XY0711; EGU2007-A-02994; ST2/PS5.2-1MO4P-0711
Sauer, K.; Dubinin, E.; Mjølhus, E.; Baumgaertel, K.
 Banana-polarized solitons related to Ulysses observations

XY0712; EGU2007-A-04255; ST2/PS5.2-1MO4P-0712
Zelenyi, L.; Malova, H.; Popov, V.; Delcourt, D.; Petrukovich, A.; Shen, C.; Runov, A.
 Multiscale and asymmetric current sheets in the Earth's magnetosphere

XY0713; EGU2007-A-04418; ST2/PS5.2-1MO4P-0713
Vocks, C.; Mann, G.
 Generation of supra-thermal electrons in the quiet solar corona

XY0714; EGU2007-A-04512; ST2/PS5.2-1MO4P-0714
Araneda, J.; Marsch, E.; **Viñas, A.**
 Collisionless Damping of Parametrically Unstable Alfvén Waves in the Solar Wind

XY0715; EGU2007-A-04890; ST2/PS5.2-1MO4P-0715
Podgorny, A. I.; Podgorny, I. M.; Meshalkina, N. S.
 MHD Simulation of Magnetic Field Evolution in Preflare State above the Active Region AR 0365

XY0716; EGU2007-A-05435; ST2/PS5.2-1MO4P-0716
Gubchenko, V.M.; Biernat, H.K.; Rucker, H.O.
 On energy, helicity and force characteristics of the generated magnetotail/solar streamer described in kinetic approach.

XY0717; EGU2007-A-07714; ST2/PS5.2-1MO4P-0717
Sadovski, A.
 Electromagnetic waves generated by ion distribution with velocity space holes

XY0718; EGU2007-A-09038; ST2/PS5.2-1MO4P-0718
Arnold, L.; Dreher, J.; Grauer, R.
 Numerical simulation of expanding flux ropes

XY0719; EGU2007-A-09673; ST2/PS5.2-1MO4P-0719
Kartalev, M.; **Amata, E.;** Dobrev, P.; Marcucci, M.F.; Coco, I.; Savin, S.
 Comparison of Numerical Modelling and Cluster Observations of Magnetosheath Flow near the Cusps

XY0720; EGU2007-A-10248; ST2/PS5.2-1MO4P-0720
Ferencz, O.E.; Steinbach, P.; Ferencz, Cs.; **Lichtenberger, J.;** Berthelier, J.J.; Lefevre, F.; Parrot, M.
 Guided UWB transient phenomena in anisotropic plasmas

XY0721; EGU2007-A-10074; ST2/PS5.2-1MO4P-0721
Zharkova, V.V.; Agapitov, A.
 Energy exchange between accelerated electrons and protons in an RCS with variable electric field

XY0722; EGU2007-A-00099; ST7-1MO3P-0722
de Lucas, A.; Gonzalez, W. D.; Echer, E.; Guarnieri, F. L.; Dal Lago, A.; Vieira, L. E.; da Silva, M. R.; Saraiva, A. C.
 A comparison of interplanetary parameters and geomagnetic indices during intense and super intense magnetic storms

XY0723; EGU2007-A-00369; ST7-1MO3P-0723
Echer, E.; Alves, M. V.; Gonzalez, W. D.; Balmaceda, L. A.; Guarnieri, F. L.
 Geomagnetic index variability and ring current asymmetry during April 1999 (magnetic cloud driven) and February 2000 (complex ejecta driven)

XY0724; EGU2007-A-00594; ST7-1MO3P-0724
Kuznetsova, T. V.; Laptukhov, A. I.
 Geomagnetic activity response to changes of orientation of the solar wind velocity, the interplanetary magnetic field and the solar wind electric field with respect to geomagnetic moment taking into account annual and daily motion the Earth

XY0725; EGU2007-A-01232; ST7-1MO3P-0725
Lutsenko, V.N.; Gusev, A.A.; Delcourt, D.
 New method of checking the Earth's magnetic field models

XY0726; EGU2007-A-01383; ST7-1MO3P-0726
Mager, P.N.; Klimushkin, D. Yu.
 Spatial localization and azimuthal wave numbers of Alfvén waves generated by drift-bounce resonance in the magnetosphere

XY0727; EGU2007-A-01384; ST7-1MO3P-0727
Klimushkin, D. Yu.; Mager, P.N.
 Alfvén ship waves: emission of ULF waves by substorm injected particles

XY0728; EGU2007-A-01965; ST7-1MO3P-0728
Pallocchia, G.; Cattaneo, M. B.; Dandouras, I.; Kistler, L. M.; Klecker, B.; Carlson, C. W.; Korth, A.; McCharty, M.; Lundin, R.; Balogh, A.
 Interplanetary shock waves in the Earth's magnetosheath: CLUSTER observations

XY0729; EGU2007-A-02579; ST7-1MO3P-0729
Jhuang, B.-Y.; Shue, J.-H.; Song, P.
 A Study of Dawn-Dusk Asymmetry of the Magnetopause Shape

XY0730; EGU2007-A-03230; ST7-1MO3P-0730
Kudela, K.
 Transmissivity predictions for cosmic rays in disturbed magnetosphere: a case study

XY0731; EGU2007-A-03381; ST7-1MO3P-0731
Simunek, J.; Safrankova, J.; Nemecek, Z.
 Temporal vs spatial changes of dispersion patterns at the cusp

XY0732; EGU2007-A-03393; ST7-1MO3P-0732
Tkachenko, O.; Safrankova, J.; Nemecek, Z.; Simunek, J.; Prech, L.
 Vortex-like structure in the cusp-magnetosheath interface

XY0733; EGU2007-A-03401; ST7-1MO3P-0733
Gutynska, O.; Safrankova, J.; Nemecek, Z.
 Two-point observations of magnetosheath fluctuations

XY0734; EGU2007-A-04080; ST7-1MO3P-0734
Klassen, A.; Gomez-Herrero, R.; Boehm, E.; Mueller-Mellin, R.; Heber, B.; Wimmer-Schweingruber, R.
 Observations of energetic electrons far upstream of the Earth's bow - shock at COSTEP/SOHO

XY0735; EGU2007-A-04090; ST7-1MO3P-0735
Jelinek, K.; Nemecek, Z.; Safrankova, J.
 Influence of the tilt angle on the bow shock location

ST7 Open session on the magnetosphere (including Hannes Alfvén Medal Lecture) – Posters

Convener: Milan, S.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 13:30–15:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0736; EGU2007-A-04106; ST7-1MO3P-0736
Dusik, S.; Safrankova, J.; Nemecek, Z.; Simunek, J.
 Determination of the LLBL profile under different IMF conditions using Te-Ne plots

XY0737; EGU2007-A-04230; ST7-1MO3P-0737
Stenberg, G.; Yordanova, E.; André, M.; Vaivads, A.; Retinò, A.; Buchert, S.; Hamrin, M.
 The characteristics of thin current sheets in the magnetosheath

XY0738; EGU2007-A-04392; ST7-1MO3P-0738
Agapitov, A. V.; Cheremnykh, O. K.; Parnowski, A. S.
 Comparison of magnetometric observational data with theoretical model of ballooning eigenmodes in the inner magnetosphere of the Earth

XY0739; EGU2007-A-04753; ST7-1MO3P-0739
Shue, J.-H.; Ieda, A.; Lui, A.T.Y.; Parks, G. K.; Mukai, T.
 Two classes of earthward plasma sheet fast flows

XY0740; EGU2007-A-04779; ST7-1MO3P-0740
Eriksson, T.; Blomberg, L.; Schaefer, S.; Glassmeier, K.-H.
 Sunward propagating Pc5 wave observed in the post-midnight magnetosphere flank

XY0741; EGU2007-A-04915; ST7-1MO3P-0741
Yahnin, A.G.; Yahnina, T.A.; Frey, H.U.
 Two-dimensional view of the proton precipitation related to geomagnetic Pc1 pulsations

XY0742; EGU2007-A-05272; ST7-1MO3P-0742
Du, A.; Sun, W.; Zhou, X.-Y.
 An Insight into Auroral Electrojet Development: Identification and Decoupling of DP1 and DP2 Current Systems

XY0743; EGU2007-A-05339; ST7-1MO3P-0743
Keika, K.; Nakamura, R.; Baumjohann, W.; Runov, A.; Takada, T.; Klecker, B.; Re`me, H.; Dandouras, J.; Lucek, E.; Frey, H.
 Implication for O+ Acceleration in the Magnetotail triggered by Solar Wind Compression: 24 August 2005 Event

XY0744; EGU2007-A-05346; ST7-1MO3P-0744
Keika, K.; Nakamura, R.; Baumjohann, W.; Runov, A.; Takada, T.; Klecker, B.; Re`me, H.; Dandouras, J.; Lucek, E.
 Estimate of the Orientation and Current Density in the Plasma Sheet: Application of the Energetic Ion Sounding Technique

XY0745; EGU2007-A-05411; ST7-1MO3P-0745
Smolin, S.
 Model of the pitch angle diffusion

XY0746; EGU2007-A-05434; ST7-1MO3P-0746
Dandouras, I.; Vallat, C.; Ganushkina, N.; Reme, H.; Cao, J.
 Energetic ion dynamics of the inner magnetosphere revealed in coordinated Cluster- Double Star observations

XY0747; EGU2007-A-05662; ST7-1MO3P-0747
Barkhatov, N.A.; Levitin, A.E.; Tserkovnik, O.M.
 Influence of Solar Wind Parameters and Interplanetary Magnetic Field on Global and Polar Indices of Geomagnetic Activity during Geomagnetic Storms

XY0748; EGU2007-A-05744; ST7-1MO3P-0748
Snekvik, K.; Nakamura, R.; Haaland, S.; Østgaard, N.
 A statistical survey of the electric field Z(GSM) component in the plasma sheet based on Cluster data

XY0749; EGU2007-A-06118; ST7-1MO3P-0749
Laundal, K.M.; Østgaard, N.
 Global observations of proton precipitation during the 21.-25. October 2001 geomagnetic storm

XY0750; EGU2007-A-06182; ST7-1MO3P-0750
Lucek, E. A.; Horbury, T. S.; Dandouras, I.; Reme, H.
 Properties of magnetic structures within the quasi-parallel shock: evidence for refraction

XY0751; EGU2007-A-06295; ST7-1MO3P-0751
De Michelis, P.; Consolini, G.; Tozzi, R.
 On the spectral and statistical properties of principal components of geomagnetic daily changes

XY0752; EGU2007-A-06439; ST7-1MO3P-0752
Terada, N.; Tanaka, T.
 Numerical modeling of the circulation of ionospheric particles in the magnetosphere: Gyrokinetic approach

XY0753; EGU2007-A-06547; ST7-1MO3P-0753
Waara, M.; Nilsson, H.; Arvelius, S.; Marghitu, O.; Yamauchi, M.; Stenberg, G.; André, M.; THE CIS TEAM
 Oxygen ion outflow observed at high altitude

XY0754; EGU2007-A-06966; ST7-1MO3P-0754
Jankovicova, D.; Voros, Z.
 The Influence of Solar Wind Turbulence on Geomagnetic Activity

XY0755; EGU2007-A-07161; ST7-1MO3P-0755
Kozak, L.V.; Lui, A.T.Y.; Ivchenko, V.M.
 Statistical analysis of magnetic field fluctuations in the Earth's magnetotail

XY0756; EGU2007-A-07244; ST7-1MO3P-0756
Nakamura, T.; Fujimoto, M.; Otto, A.
 Plasma mixing and transport across the tail-magnetopause during northward IMF caused by the coupling between the MHD-scale Kelvin-Helmholtz vortex and magnetic reconnection: 2D and Two-fluid simulations

XY0757; EGU2007-A-07439; ST7-1MO3P-0757
Blockx, C.; Gérard, J.-C.; Coumans, V.; Hubert, B.; Connors, M.
 Global morphology of substorm growth phases observed by the IMAGE-SI12 imager

XY0758; EGU2007-A-07818; ST7-1MO3P-0758
Vogiatzis, I. I.; Sarris, T. E.; Sarris, E. T.; Fritz, T. A.; Zong, Q.-G.; Zhang, H.
 Ion acceleration up to supra-thermal energies due to wave-particle interactions in the cusp region. A CLUSTER case study.

XY0759; EGU2007-A-08434; ST7-1MO3P-0759
Lindstedt, T.; Khotyaintsev, Yu. V.; Vaivads, A.
 Reconnection separatrix regions at the magnetopause: Cluster observations

XY0760; EGU2007-A-08732; ST7-1MO3P-0760
Grebowsky, J.; Sibeck, D.; Mauk, B.; Fox, N.; Giles, B.
 Living With a Star Radiation Belt Storm Probes and associated Geospace missions

XY0761; EGU2007-A-08973; ST7-1MO3P-0761
Amata, E.; De Franceschi, G.; Alfonsi, L.; Romano, V.; Marcucci, M.F.; Coco, I.; Lester, M.; Dyson, P. L.
 Statistical Correlation between GPS Scintillations and HF Backscatter

XY0762; EGU2007-A-09370; ST7-1MO3P-0762
Trenchi, L.; Marcucci, M.F.; Palloccchia, G.; Bavassano Cattaneo, M. B.; Reme, H.; Kistler, L.; Klecker, B.; Korth, A.; Carr, C.M.
 Study of the occurrence of reconnection jets at the dayside magnetopause with Double Star.

XY0763; EGU2007-A-09473; ST7-1MO3P-0763
Maggiolo, R.; Sauvaud, J.-A.; Lucek, E.
 Dayside reconnection under extremely low solar wind density conditions

XY0764; EGU2007-A-10119; ST7-1MO3P-0764
Anagnostopoulos, G.; Vassiliadis, E.; Tenentes, V.; Plainaki, C.; Mavromichalaki, H.
Signature of shock drift acceleration of energetic (<1 MeV) ions near the earth's bow shock on May 4, 1998

XY0765; EGU2007-A-10148; ST7-1MO3P-0765
Westerberg, L.G.; Åkerstedt, H.O.
Large Scale Flow Near a Reconnection Site at the Dayside Magnetopause: A 3D Analytical Model Coupled with Cluster Multi-Spacecraft Data

XY0766; EGU2007-A-10263; ST7-1MO3P-0766
Alexandrova, O.; Budnik, E.; Génot, V.; Lacombe, C.; Jacquy, C.; Dandouras, I.; Lucek, E.
Statistical study of magnetic field fluctuations in the Earth magnetosheath

XY0767; EGU2007-A-10718; ST7-1MO3P-0767
Brown, P.; dunlop, M.W.; balogh, A.; carr, C.; gloag, J.; lucek, E.; oddy, T
Calibration techniques for magnetometers implementing on-board de-spinning algorithms - filling the gaps within the Cluster dataset.

XY0768; EGU2007-A-10861; ST7-1MO3P-0768
Mursula, K.; Holappa, L.; Karinen, A.
Motivations and Implications for Revising the Dst Index

ST8 Coupling between regions and scales: the future is multipoint and multi-instrument – Posters

Convener: Beloff, N.
Co-Convener(s): Schwartz, S., Lester, M., Ridley, A., Gombosi, T., Vaivads, A.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: WALKER, S.

XY0769; EGU2007-A-03198; ST8-1MO4P-0769
Volwerk, M.; Lester, M.; Lui, T.; The IssiAndCluster Team
Magnetospheric response to a fast flow in the tail: A THEMIS approaching configuration study

XY0770; EGU2007-A-03248; ST8-1MO4P-0770
Juusola, L.; Amm, O.; Frey, H.U.; Nakamura, R.; Ogawa, Y.; Owen, C.J.; Sergeev, V.
Ionospheric signatures during a magnetotail flux rope event

XY0771; EGU2007-A-05608; ST8-1MO4P-0771
Fontaine, D.; Roux, A.; Le Contel, O.; Robert, P.; Sauvaud, J.A.; Owen, C.J.
Electron populations in thin current sheets close to and during substorms

XY0772; EGU2007-A-06461; ST8-1MO4P-0772
Grocott, A.; Yeoman, T.K.; Milan, S.E.; Amm, O.; Frey, H.U.; Juusola, L.; Nakamura, R.; Owen, C.J.; Rème, H.; Takada, T.
Multi-scale observations of magnetotail flux transport during IMF-northward non-substorm intervals

XY0773; EGU2007-A-07692; ST8-1MO4P-0773
Berthomier, M.; Berthelier, J.-J.; Fontaine, D.; Amiaud, L.
High-time resolution particle instrumentation for cross-scale coupling studies in Earth's plasma sheet

XY0774; EGU2007-A-09620; ST8-1MO4P-0774
Khotyaintsev, Yu.V.; Vaivads, A.; Retinò, A.; Owen, C.J.
Observations of Reconnection Onset at the Magnetopause

XY0775; EGU2007-A-09954; ST8-1MO4P-0775
Sauvaud, J.-A.; Jacquy, C.; Lucek, E.; Zhang, T. L.; Cao, C. B.; Reeves, G. D.
Dynamics of the tail during substorms: TCR and Current Disruptions

XY0776; EGU2007-A-03167; ST8-1MO4P-0776
Seki, Y.; Shinohara, I.; Schwartz, S.; Mazelle, C.; Meziane, K.; Fujimoto, M.; Lucek, E.
The role of shock reformation at oblique collision-less shocks

XY0777; EGU2007-A-04677; ST8-1MO4P-0777
Zhou, X.; Lummerzheim, D.
Auroral observation using NIR camera onboard balloons: A new approach for dayside and conjugate auroral observations

XY0778; EGU2007-A-05208; ST8-1MO4P-0778
Asano, Y.; THE CLUSTER ELECTRON STUDY TEAM
Characteristics of electron flat-top distribution observed by Cluster

XY0779; EGU2007-A-05324; ST8-1MO4P-0779
Hobara, Y.; Walker, S. N.; Dunlop, M.; Balikhin, M.; Pokhotelov, O. A.; Nilsson, H.; Reme, H.
Multi-point observations of ULF foreshock waves by Cluster and wave mode identification

XY0780; EGU2007-A-05348; ST8-1MO4P-0780
Hobara, Y.; Walker, S. N.; Balikhin, M.; Pokhotelov, O.A.; Andre, M.; Dunlop, M.; Reme, H.
Cluster observations of electrostatic solitary waves near the Earth's bow shock

XY0781; EGU2007-A-06015; ST8-1MO4P-0781
Escoubet, C. P.; Berchem, J.; Bosqued, J. M.; Taylor, M. G.; Trattner, K. J.; Pitout, F.; Laakso, H.; Masson, A.; Dunlop, M.; Reme, H.; Cusp team
Cusp dynamics observed by Cluster using multi-point measurements

XY0782; EGU2007-A-06152; ST8-1MO4P-0782
Behlke, R.; Kucharek, H.; Bale, S.D.; André, M.; Lucek, E.A.
Dissipation at the Earth's quasi-parallel bow shock: Cluster observations of the electric potential and ion reflection rates

XY0783; EGU2007-A-07767; ST8-1MO4P-0783
Asnes, A.; Borg, A. L.; Taylor, M. G.; Escoubet, P.; Friedel, R. W.; Reeves, G. D.; Daly, P.; Fazakerley, A.; Lucek, E. A.
High resolution measurements of electron distributions in the proximity of near Earth neutral lines by Cluster

XY0784; EGU2007-A-09383; ST8-1MO4P-0784
Bunescu, C.; Marghitu, O.; Klecker, B.; McFadden, J.
Cluster/FAST conjunctions as a tool to investigate auroral acceleration

XY0785; EGU2007-A-10673; ST8-1MO4P-0785
Vaivads, A.; Retinò, A.; Nakamura, R.; Owen, C. J.; Fujimoto, M.; Schwartz, S.
Key science questions in magnetic reconnection motivating the necessity of Cross-Scale mission (solicited)

XY0786; EGU2007-A-05859; ST8-1MO4P-0786
Hasegawa, H.; **Fujimoto, M.;** Matsumoto, Y.; Nakamura, T.; Nariyuki, Y.; Tanaka, K. G.
A theorists' expectation for the Cross-Scale mission: Boundary layer science

XY0787; EGU2007-A-06996; ST8-1MO4P-0787
Sahraoui, F.; Belmont, G.; Grison, B.; Pinçon, J.-L.; Roux, A.; Rezeau, L.; Cornilleau-Wehrin, N.
Determination of 3D k-turbulent spectra from multipoint measurements: Cluster and Cross-Scale missions

XY0788; EGU2007-A-08438; ST8-1MO4P-0788
Marcucci, M.F.; Bavassano Cattaneo, M.B.; Retinò, A.
 Improvement expected from multiscale measurements: two Cluster studies

XY0789; EGU2007-A-09091; ST8-1MO4P-0789
Walker, S.; Balikhin, M.; Alleyne, H.; Andre, M.; Dunlop, M.; Krasnoselskikh, V.; Yearby, K
 Lower hybrid waves at the terrestrial bow shock: Revisited

XY0790; EGU2007-A-09611; ST8-1MO4P-0790
Yordanova, E.; Vaivads, A.; Andre, M.; Buchert, S. C.
 The evolution of intermittency in the magnetosheath turbulence downstream of a quasi-parallel bow shock

XY0791; EGU2007-A-03624; ST8-1MO4P-0791
De Keyser, J.; **Crosby, N.B.**
 Interactive Software for Processing and Visualizing Multi-point and Multi-Instrument Data (solicited)

XY0792; EGU2007-A-01005; ST8-1MO4P-0792
Karpachev, A.; Biktash, L.; Maruyama, T.
 Multi-satellite observations of the ionospheric structures (solicited)

XY0793; EGU2007-A-02424; ST8-1MO4P-0793
Beloff, N.; Karpachev, A.T.; Denisenko, P.F.; Lester, M.; Carozzi, T.D.; Karhunen, T.
 Detection of the Large-Scale TIDs associated with auroral activity using SuperDARN data

XY0794; EGU2007-A-02721; ST8-1MO4P-0794
Hamrin, M.; Börlin, N.; Rönmark, K.; Vedin, J.; Buchert, S.
 Estimating time and space derivatives using GALS

XY0795; EGU2007-A-04985; ST8-1MO4P-0795
Kozelov, B. V.
 Multi-scale features of aurora and electric field fluctuations at the high latitudes

XY0796; EGU2007-A-05163; ST8-1MO4P-0796
Wang, H.; Ridley, A.; Ma, S.Y.; Luehr, H.
 Multisatellite and ground station network observation of a substorm onset

XY0797; EGU2007-A-06102; ST8-1MO4P-0797
De Keyser, J.; Darrouzet, F.; Roth, M.; Décréau, P.M.E.; Dunlop, M.W.
 Computing gradients from multi-point data: Recent progress

XY0798; EGU2007-A-09178; ST8-1MO4P-0798
Stauning, P.; Watermann, J.; Troshichev, O.
 Transpolar ionospheric currents derived from Ørsted and from ground

XY0799; EGU2007-A-09206; ST8-1MO4P-0799
Echim, M.M.; Roth, M.; De Keyser, J.
 Coupling between magnetospheric and ionospheric scales in discrete auroral arcs formation

XY0800; EGU2007-A-10459; ST8-1MO4P-0800
Clausen, L.; Yeoman, T.K.
 Conjoint measurements of ULF pulsations

XY0801; EGU2007-A-11159; ST8-1MO4P-0801
Malo, J. O.; Thide, B.
 Kenya International Radio Observatory

ST9 Linear and nonlinear wave particle interactions in space plasmas

Convener: Pickett, J.
 Co-Convener(s): Tsurutani, B., Pottellette, R.
 Lecture Room 11
 Chairperson: POTTELETTE, R.

13:30–13:45; EGU2007-A-01333; ST9-1MO3O-001
Tsurutani, B.T.; Echer, E.E.; Guarnieri, F.L.
 The causes of MDs in interplanetary space: Ulysses

13:45–14:00; EGU2007-A-11181; ST9-1MO3O-002
Zharkova, V.V.; Gordovskyy, M.
 Proton beam kinetics in flaring atmospheres with density gradients

14:00–14:15; EGU2007-A-01098; ST9-1MO3O-003
Lee, K. W.; Elkina, N.V.; Buechner, J.
 High frequency electron/electron modes in solar plasma: linear approach

14:15–14:45; EGU2007-A-05087; ST9-1MO3O-004
Bale, S. D.; Goetz, K.; Kellogg, P. J.; Bougeret, J.-L.; Briand, C.; Maksimovic, M.; Mangeney, A.; Salem, C.
 Langmuir and electrostatic waveforms in the solar wind and shocks: First results from the S/WAVES experiment on STEREO (solicited)

14:45–15:00; EGU2007-A-03190; ST9-1MO3O-005
Briand, CB.; Mangeney, AM; Califano, FC; Bale, SDB; Bougeret, JLB; Maksimovic, MM
 Langmuir waves: Vlasov simulations and STEREO/Waves observations

15:00 COFFEE BREAK

Chairperson: PICKETT, J.

15:30–15:45; EGU2007-A-02967; ST9-1MO4O-001
Trakhtengerts, V. Y.; Demekhov, A. G.; Titova, E. E.; Kozelov, B. V.; Santolik, O.; Macusova, E.; Gurnett, D. A.; Pickett, J. S.; Rycroft, M. J.; Nunn, D.
 Comparison of Cluster data for VLF chorus waves and the backward-wave oscillator model for chorus formation

15:45–16:15; EGU2007-A-04738; ST9-1MO4O-002
Omura, Y.; Katoh, Y.; Furuya, N.; Summers, D.
 Simulations of chorus waves and acceleration of electrons to relativistic energies (solicited)

16:15–16:30; EGU2007-A-05502; ST9-1MO4O-003
Parks, G.; Lee, E.; Lin, N.; Mozer, F.; Wilber, M.; Dandouras, I.; Reme, H.; Lucek, E.; Fazakerley, A.; Goldstein, M.; PEACE and STAFF and WHISPER
 Nonlinear Electromagnetic Pulses Detected During Super-Alfvénic Flowing Plasmas in the Earth's Plasma Sheet

16:30–16:45; EGU2007-A-00860; ST9-1MO4O-004
Teste, A.; Fontaine, D.; Canu, P.; Décréau, P.; Fazakerley, A.
 Cluster observations of beam-plasma instabilities above the polar cap by northward IMF

16:45–17:00; EGU2007-A-01004; ST9-1MO4O-005
Ghosh, S. S.; Lakhina, G. S.
 Effect of the second ion species on positive amplitude electron acoustic solitary wave

17:00 COFFEE BREAK

Chairperson: TSURUTANI, B.

17:30–17:45; EGU2007-A-07474; ST9-1MO5O-001
Lundin, R.; Guglielmi, A.
 Attractive and repulsive ponderomotive forces in space- and astrophysical plasmas

17:45–18:00; EGU2007-A-04812; ST9-1MO5O-002
Pilipenko, V.A.; Fedorov, E.N.; Engebretson, M.J.
 Interaction of Alfvén waves with resistive layers

18:00–18:15; EGU2007-A-04243; ST9-1MO5O-003
 Hanasz, J.; **Schreiber, R.**; Pickett, J.; de Feraudy, H.
 Pulsations of the Auroral Kilometric Radiation in the Pc-1 frequency range

18:15–18:30; EGU2007-A-02495; ST9-1MO5O-004
Parrot, M.; Sauvaud, J.A.; Berthelier, J.J.; Lebreton, J.P.
 First in-situ observations of strong ionospheric perturbations generated by a powerful VLF ground-based transmitter

18:30–18:45; EGU2007-A-05116; ST9-1MO5O-005
Inan, U.; Piddychiy, D.; Peter, W.; Parrot, M.; Sauvaud, J.A.
 Lightning-Induced Electron Precipitation: DEMETER and Ground-based Observations

18:45–19:00; EGU2007-A-10315; ST9-1MO5O-006
Atamaniuk, B.; Volokitin, S. A.
 Nonlinear saturation of Farley-Buneman instability

19:00 END OF SESSION

ST10 Coupling processes of radiation belts and plasmasphere

Convener: Laakso, H.
 Co-Convener(s): Friedel, R., Masson, A., Bencze, P.
 Lecture Room 11
 Chairperson: N.N.

8:30–9:00; EGU2007-A-10869; ST10-1MO1O-001
Elkington, S.R.; Chan, A.A.; Yue, B.; Wiltberger, M.
 Flux variations in the radiation belts and the influence of coupling at the outer boundary (solicited)

9:00–9:15; EGU2007-A-04663; ST10-1MO1O-002
Santolik, O.; Gurnett, D.A.; Pickett, J.S.; Trakhtengerts, V.Y.; Demekhov, A.G.; Cornilleau-Wehrin, N.; Daly, P.W.; Fazakerley, A.
 Hiss and chorus emissions: loss and source mechanisms for energetic particles (solicited)

9:15–9:30; EGU2007-A-04723; ST10-1MO1O-003
Kanekal, S. G.; Baker, D. N.; Blake, J. B.; Fennell, J. F.; Selesnick, R. S.; Vassiliadis, D.
 Characteristics of Relativistic Electron Energization and Loss in the Earth's Outer Zone (solicited)

9:30–9:45; EGU2007-A-11226; ST10-1MO1O-004
 Friedel, R.; Chen, Y.; Reeves, G.; Cayton, T.
 Pitch angle evolution of energetic electrons at geosynchronous orbit during disturbed times

9:45–10:00; EGU2007-A-04749; ST10-1MO1O-005
Puhl-Quinn, P.; Matsui, H.; Mishin, E.; Mouikis, C.; Kistler, L.; Khotyaintsev, Y.; D'aurio, P.; Lucek, E.
 Cluster and DMSP Observations of SAID Electric Fields

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–11:00; EGU2007-A-03545; ST10-1MO2O-001
Shprits, Y.
 Influence of the plasmasphere on the dynamics of the electron radiation belts fluxes (solicited)

11:00–11:15; EGU2007-A-05661; ST10-1MO2O-002
Sarris, T.; Li, X.; Temerin, M.
 Modelling electron fluxes and the evolution of phase space density profiles under the effect of ULF pulsations

11:15–11:30; EGU2007-A-03750; ST10-1MO2O-003
Maget, V.; Bourdarie, S.; Boscher, D.
 Effects of the plasmasphere and the plasmopause on the radiation belts in Salammbô code

11:30–11:45; EGU2007-A-04725; ST10-1MO2O-004
Webb, P.; Benson, R.; Denton, R.; Goldstein, J.; Garcia, L.; Reinisch, B.
 A global plasmasphere electron density database determined from IMAGE RPI dynamic spectra

11:45–12:00; EGU2007-A-07390; ST10-1MO2O-005
Lichtenberger, J.
 Determination of plasmopause position with Automatic Whistler Detector and Analyzer system

12:00 END OF SESSION

Stratigraphy, Sedimentology and Palaeontology

SSP1 Open session on Sedimentology, Stratigraphy and Palaeontology - Posters only (co-listed in CL) – Posters

Convener: Smit, J.
 Co-Convener(s): Reijmer, J., Samankassou, E.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
 Poster Area Hall A
 Chairperson: N.N.

A0344; EGU2007-A-00066; SSP1-1MO5P-0344
Shitta, K.A.
 Lithostratigraphy of Nigeria-An Overview

A0345; EGU2007-A-00374; SSP1-1MO5P-0345
Podobina, V.
 Stratigraphy of the marine Paleogene of the south-east of Western Siberia based on foraminifera

A0346; EGU2007-A-00614; SSP1-1MO5P-0346
Kapochkin, B.B.; Kucherenko, N.V.; Dolya, V.D.
 Global warming as a result of total action of anthropogenic and geothermic factors

A0347; EGU2007-A-00657; SSP1-1MO5P-0347
 Karnaukh, V. N.; **Bordiyan, O. V.**
 Pleistocene - Holocene sedimentary evolution of the Japan Basin (Japan Sea) from seismic stratigraphy

A0348; EGU2007-A-00732; SSP1-1MO5P-0348
Anisimova, S.; Dol'nik, T.
 Peculiarities of Late Proterozoic of fossilized organogenic constructions in the South-Western Pribaikalie (Southern Siberia)

A0349; EGU2007-A-01367; SSP1-1MO5P-0349
 Ghazi, S.G.; **Butt, A.A.B.**
 The Permian stratigraphic framework of the Salt Range Pakistan

A0350; EGU2007-A-01390; SSP1-1MO5P-0350
Lalomov, A.; Berthault, G.
 Determination of actual time of sedimentation of Cambrian – Ordovician sandstones of North-West Russian platform

A0351; EGU2007-A-01459; SSP1-1MO5P-0351
 Sadegholvad, M.J.; Faghhi, A.
 Age and microfacies of the Jahrum formation, Zagros Mountains, Iran

A0352; EGU2007-A-01874; SSP1-1MO5P-0352
Lokier, S.W.; Steuber, T.
 Seasonal dynamics of a modern sabkha surface

A0353; EGU2007-A-02285; SSP1-1MO5P-0353

Radecki-Pawlik, A.; Wyzga, B.; Zawiejska, J.
Variation of bed-material grain size along a mountain, gravel-bed river affected by gravel extraction and channelization

A0354; EGU2007-A-02478; SSP1-1MO5P-0354

Rahman, R
Detrital garnet chemistry of the subsurface Neogene reservoir sandstones from the Surma Group in the Bengal Basin, Bangladesh: Implications for provenance

A0355; EGU2007-A-03030; SSP1-1MO5P-0355

Mafany, G.T.; Ernst, GGJ; Fantong, WY; Suh, CE; Njome, SM; Sparks, RSJ; Ayonghe, SN
Reconstructing paleoeruption characteristics from tuff rings in Batoke, Cameroon

A0356; EGU2007-A-03055; SSP1-1MO5P-0356

Soto, M.B.; **Aldana, M.**
Modeling of stratigraphic columns using Markov Chains, Gibbs Sampling and Metropolis-Hasting algorithms, Campo Lama, Venezuela

A0357; EGU2007-A-03232; SSP1-1MO5P-0357

Sogin, M.L.; de Leeuw, J.W.; Amaral-Zettler, L.; Herndl, G.; Patterson, D.J.; **van der Meer, M.;** Schouten, S.; Stal, L.
International census of marine microbes

A0358; EGU2007-A-03295; SSP1-1MO5P-0358

Osama Hlal, O. H
The diagenetic and reservoir-quality evolution pathways of shoreface sandstones within a sequence stratigraphic context: an example from the Ponta Grossa formation (Devonian), Paraná Basin, Brazil

A0359; EGU2007-A-03351; SSP1-1MO5P-0359

Sengun, F.; Calik, A.
Geological, mineralogical and petrographical features of the Karabiga metamorphic rocks (Biga Peninsula), NW Turkey

A0360; EGU2007-A-04375; SSP1-1MO5P-0360

Lalomov, A.; Berthault, G.
Determination of actual time of sedimentation of Cambrian – Ordovician sandstones of North-West Russian platform

A0361; EGU2007-A-04775; SSP1-1MO5P-0361

Al-Juboury, A.
Sedimentology of the Khabour Formation (Ordovician) of Iraq

A0362; EGU2007-A-05980; SSP1-1MO5P-0362

Mohamed, Y.; Suliman, S
Sedimentation framework and tectonostratigraphic development, case study from Muglad rift basin, Sudan

A0363; EGU2007-A-06042; SSP1-1MO5P-0363

KUDRASS, H.R.; Spiess, V.; Schwenk, T.; France-Lanord, Ch.
Variation of Sediment distribution in the submarine Delta of the Ganges-Brahmaputra - high and low Sealevel Situations

A0364; EGU2007-A-06103; SSP1-1MO5P-0364

Bahrami, M.
Sedimentology and paleogeography of Plio- Pleistocene Bakhtyari Formation at Ghalat and Garu- Charmakan Mountain+s , NW of Shiraz , Iran

A0365; EGU2007-A-06688; SSP1-1MO5P-0365

Tolosana-Delgado, R.; von Eynatten, H.
Petrographic composition of sediments vs. grain size: a statistical model

A0366; EGU2007-A-06725; SSP1-1MO5P-0366

Hordijk, K.; van der Meulen, A
Middle Miocene pikas from north-central Spain

A0367; EGU2007-A-07250; SSP1-1MO5P-0367

Chiu, J.K.; Liu, C.S.
Chirp echo characters and Late Quaternary sedimentation offshore Southwestern Taiwan: the comparison of sedimentary process in the passive and active continental margin

A0368; EGU2007-A-08526; SSP1-1MO5P-0368

Proske, U.; Hanebuth, T.
Holocene sedimentation in the Banc d'Arguin, Mauritania

A0369; EGU2007-A-08729; SSP1-1MO5P-0369

Lasalle, S.; Guillot, F.; Averbuch, O.; Pellenard, P.; Deconinck, J.F.; Devleeschouwer, X.; Herbosch, A.
Volcanic origin of K-bentonite: criteria from zircons

A0370; EGU2007-A-09086; SSP1-1MO5P-0370

Mikes, T.; Tolosana-Delgado, R.; von Eynatten, H.
Garnet composition and provenance analysis: towards accurate source assignment of single grain analyses

A0371; EGU2007-A-09684; SSP1-1MO5P-0371

Kóródy, G.; Jordán, Gy
Statistical analysis of borehole-datasets near Bátaapáti, South Hungary

A0372; EGU2007-A-09764; SSP1-1MO5P-0372

de Trizio, V. A.; Quali-quantitative evaluation of pollution risk in
Quali-quantitative evaluation of pollution risk in an important area of the industrial site of Taranto (Southern Italy). (cancelled)

A0373; EGU2007-A-10513; SSP1-1MO5P-0373

Pereira, E.; Bergamaschi, S.
New data of the Ordovician glaciation in Paraná basin – Brazil

A0374; EGU2007-A-10519; SSP1-1MO5P-0374

Lasalle, S.; **Guillot, F.;** Paquette, J.L.; Averbuch, O.; Pellenard, P.; Deconinck, J.F.; Devleeschouwer, X.; Herbosch, A.
Zircon U-Pb ages from late Frasnian K-bentonites of Frasnes (Belgium)

A0375; EGU2007-A-10631; SSP1-1MO5P-0375

Tan, K.P.; **Lawrie, K.C.;** Gibson, D.
Integrating experimental petrophysical studies with field studies to produce semi-quantitative 3D products from airborne electromagnetic (AEM) data.

A0376; EGU2007-A-10898; SSP1-1MO5P-0376

Rendle-Buehring, R.H.; Reijmer, J.J.G.; Schwarz, J.; Steinke, S.
Latest Developments on the use of Grain-size Parameters in Periplatform Carbonates

A0377; EGU2007-A-10914; SSP1-1MO5P-0377

Székely, B.; Dunkl, I.
An old problem revisited: What do fission track ages of sediments tell us?

A0378; EGU2007-A-10971; SSP1-1MO5P-0378

Hajnal, Z.; Süle, S.; Pandit, B.
Regional Tectonic and Petrophysical Study in and around the Weyburn Oil Field, Southern Saskatchewan, Canada

A0379; EGU2007-A-10977; SSP1-1MO5P-0379

Süle, S.; Hajnal, Z.; Pandit, B.
Regional Tectonic and Petrophysical Study in and around the Weyburn Oil Field, Southern Saskatchewan, Canada

A0380; EGU2007-A-11046; SSP1-1MO5P-0380

Schönian, F.
A multiple-center glaciation in the Late Ordovician? Tillites from southern Bolivia suggest an independent, temperate ice shield in South America.

A0381; EGU2007-A-11052; SSP1-1MO5P-0381
Butt, A.A.B; Munir, M.M
 The Paleogene of Azad Kashmir, Hazara Kashmir Syntaxis, Pakistan

A0382; EGU2007-A-11471; SSP1-1MO5P-0382
Dubey, N.; Bheemalingeswara, K.; Tadesse, N.
 Sedimentology and lithostratigraphy of the Mesozoic successions of Mekelle Basin of Ethiopia, Northeastern Africa

SSP4 3-d modelling of sedimentary Systems – Posters

Convener: Kukla, P.
 Co-Convener(s): Aigner, T., Borgomano, J.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
 Poster Area Hall A
 Chairperson: KUKLA, P.; AIGNER, T.; BORGOMANO, J.

A0383; EGU2007-A-11555; SSP4-1MO5P-0383
 Gari, J.; Viseur, S.; **Borgomano, J.;** Lamarche, J.; Nardou, S.
 Stochastic and forward modelling of a carbonate platform constrained by outcrop data: the Upper Cretaceous Beausset carbonate margin, South of France

A0384; EGU2007-A-06245; SSP4-1MO5P-0384
 Back, S.; Strozyk, F.; **Kukla, P.**
 A combined 3D surface-subsurface model of the middle Miocene Belait Delta, onshore Brunei Darussalam, NW Borneo

A0385; EGU2007-A-06445; SSP4-1MO5P-0385
Salcher, B.; Faber, R.; Wägreich, M.
 4 D modelling of alluvial fans

A0386; EGU2007-A-09442; SSP4-1MO5P-0386
Rühaak, W.; Günther, T.; Gorling, L.; Schulz, R.
 Integration of geophysical data into a three-dimensional geometrical model

A0387; EGU2007-A-04771; SSP4-1MO5P-0387
Nasuti, A
 3D gravity modeling of sedimentary basins with variable density contrast

SSP10 Modelling subaqueous gravity flow processes and their deposits – Posters

Convener: Luthi, S.
 Co-Convener(s): Baas, J., Mulder, T.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
 Poster Area Hall A
 Chairperson: N.N.

A0388; EGU2007-A-02380; SSP10-1MO5P-0388
 Salles, T.; **Mulder, T.;** Gaudin, M.; Lopez, S.; Cacas, M.C.; Cirac, P.
 Simulating the 1999 turbidity current in Capbreton canyon (French Atlantic Coast) using a Cellular Automata model

A0389; EGU2007-A-04371; SSP10-1MO5P-0389
Sumner, E; Talling, P; Amy, L
 Sediment deposition and deposit growth at the base of turbulent flows

A0390; EGU2007-A-06668; SSP10-1MO5P-0390
BAAS, JH; Best, JL; Peakall, J
 Can Vertical Stacking Of Low-Angle Bedforms Produce Rhythmic Bedding in Slurry Flow Deposits?

A0391; EGU2007-A-08025; SSP10-1MO5P-0391
Silva Jacinto, R; Baas, J H
 Modelling rheological and turbulence regimes in kaolinite-rich sediment flows

A0392; EGU2007-A-10568; SSP10-1MO5P-0392
Flood, R.D.; Hiscott, R.N.; Aksu, A.E.; Kinney, J.; Yasar, D.
 Morphology and evolution of a channel system created by salinity underflow into the Black Sea

SSP16/CL45 Climate events recorded in speleothems (co-organized by CL) (co-listed in IG)

Convener: Spötl, C.
 Co-Convener(s): Cheng, H., Fleitmann, D., Genty, D.
 Lecture Room 32
 Chairperson: N.N.

13:30–14:00; EGU2007-A-01137; SSP16/CL45-1MO3O-001
Drysdale, R; Zanchetta, G; Hellstrom, J; Maas, R; Fallick, A
 Major climate events of the last 130 ka recorded in Corchia Cave (Italy) speleothems (solicited)

14:00–14:15; EGU2007-A-01327; SSP16/CL45-1MO3O-002
Wainer, K.; Genty, D.; Blamart, D.; Caillon, N.; Ghaleb, B.; Barr-Matthews, M.; Plagnes, V.; Quinif, Y.
 High resolution isotopic and trace element record of the last interglacial from a flowstone from the Villars cave (SW France)

14:15–14:30; EGU2007-A-01561; SSP16/CL45-1MO3O-003
 Constantin, S.; **Onac, B.;** Fleitmann, D.; Tamas, T.
 Stable isotope profiles of two Holocene speleothems from Romania suggest paleovegetation changes

14:30–14:45; EGU2007-A-01698; SSP16/CL45-1MO3O-004
McDonald, J; Drysdale, R; Hellstrom, J; Hodge, E; McKinsey, L; Greig, A
 Drought histories from active stalagmites, Wombeyan Caves, SE Australia

14:45–15:00; EGU2007-A-05224; SSP16/CL45-1MO3O-005
Bar-Matthews, M.; Vaks, A.; Ayalon, A.; Almogi-Labin, A.
 Origin and dust distribution during glacials and interglacials in the Eastern Mediterranean: the speleothems record

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-08393; SSP16/CL45-1MO4O-001
De Geest, P.; Verheyden, S.; Cheng, H.; Edwards, L.; Keppens, E.
 Indian Ocean Monsoon Variability recorded in Holocene High-Resolution Speleothem Records From Soqatra Island (Yemen).

15:45–16:00; EGU2007-A-08429; SSP16/CL45-1MO4O-002
Hoffmann, D.L.; Richards, D.A.; Smart, P.L.; Borton, C.J.; Edwards, R.L.
 U-Th ages of multiple-phases of speleothem growth in the Bahamas and middle - late Pleistocene sea-level change

16:00–16:15; EGU2007-A-09777; SSP16/CL45-1MO4O-003
Boch, R.; Spötl, C.; Kramers, J.
 Early Holocene climate events recorded in fast growing stalagmites from the SE-fringe of the Alps (Austria)

16:15–16:30; EGU2007-A-09991; SSP16/CL45-1MO4O-004

Tan, M

Climatic similarities and differences between the northeastern and southwestern China over the last millennium: a new perspective on the stalagmite records

16:30–16:45; EGU2007-A-10174; SSP16/CL45-1MO4O-005

van Breukelen, M.R.; **Vonhof, H.B.**; Wester, W.C.G.; Kroon, D.

Stable isotope composition of carbonate and fluid inclusions in Holocene stalagmites from the Amazon Basin

16:45–17:00; EGU2007-A-10875; SSP16/CL45-1MO4O-006

Mattey, D.; Duffet, J.; Fisher, R.; Lowry, D.; Atkinson, T.; Fairchild, I.; Latin, J-P; Ainsworth, M.; Balestrino, J.; Durrell, R

Fidelity of isotope climate proxies in a modern speleothem: prospects for climate hindcasting

17:00 COFFEE BREAK

Chairperson: N.N.

17:00 END OF SESSION

SSP22 Understanding the linkages of geosphere and biosphere evolution during Cenozoic and Mesozoic times (co-sponsored by IAS)

Convener: Herrle, J.

Co-Convener(s): Erba, E., Weissert, H.

Lecture Room 32

Chairperson: HERRLE, J., PREMOLI-SILVA, I., WEIS-SERT, H.

8:30–8:45; EGU2007-A-05010; SSP22-1MO1O-001

Szulc, J.

Depositional sequences and faunal composition and evolution in an ocean-periphery basin: An example of the Middle Triassic Muschelkalk, Central Europe

8:45–9:00; EGU2007-A-02315; SSP22-1MO1O-002

Weissert, H.; Rais, P.; Louis Schmid, B.; Bernasconi, S.

Late Jurassic carbonate oceans and an El Nino-type climate mode

9:00–9:15; EGU2007-A-04067; SSP22-1MO1O-003

Casellato, C.E.; Erba, E.

Change in the earth system and calcareous nannofossil evolution: does any linkage exist? An example from the Late Jurassic Tethys Ocean

9:15–9:30; EGU2007-A-05576; SSP22-1MO1O-004

Gröcke, D.R.; Joeckel, R.M.; Ludvigson, G.A.; Ufnar, D.F.; Witzke, B.L.; Ravn, R.L.

Recognizing the Albian–Cenomanian (OAE1d) sequence boundary using plant carbon isotopes: evidence for sea-level fall during an OAE

9:30–9:45; EGU2007-A-04212; SSP22-1MO1O-005

Parente, M.; Frijia, G.; Di Lucia, M.

Stepwise larger foraminifera extinction at the Cenomanian–Turonian boundary: a role for nutrients?

9:45–10:00; EGU2007-A-07338; SSP22-1MO1O-006

Schulte, P.; Sprong, J.; Speijer, R.P.; Youssef Ali, M.; Krumm, S.

Sedimentology and quantitative mineralogy of the Danian–Selandian (D–S) transition on the southern Tethyan margin in Egypt: Implications for sequence stratigraphy and eustatic sea-level changes

10:00 COFFEE BREAK

Chairperson: N.N.

10:00 END OF SESSION

SSP22 Understanding the linkages of geosphere and biosphere evolution during Cenozoic and Mesozoic times (co-sponsored by IAS) – Posters

Convener: Herrle, J.

Co-Convener(s): Erba, E., Weissert, H.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 15:30–17:00

Poster Area Hall A

Chairperson: N.N.

A0393; EGU2007-A-05640; SSP22-1MO4P-0393

Herrle, J.O.

Major changes in the marine and terrestrial environment during the latest Aptian and earliest Albian

A0394; EGU2007-A-06017; SSP22-1MO4P-0394

Neuhuber, S.; **Wagreich, M.**

Timing and stratigraphy of the change from anoxic to oxic oceans during the Turonian

A0395; EGU2007-A-08470; SSP22-1MO4P-0395

Petrizzo, M. R.; Huber, B. T.; Wilson, P. A.; MacLeod, K. G.

Late Albian-early Cenomanian planktonic foraminifera and stable isotope records from the western subtropical North Atlantic (ODP Leg 171B, Blake Nose)

A0396; EGU2007-A-09465; SSP22-1MO4P-0396

Graziano, R.

Cyanobacteria Blooms and Drowning Unconformities of Carbonate Platforms: Signs of Earth's Endogenic, Global Control on the Productivity of Carbonate Depositional System. Examples from the Jurassic-Cretaceous of the Mediterranean Tethys.

A0397; EGU2007-A-01332; SSP22-1MO4P-0397

Maghfouri moghaddam, I

Microbiostatigraphy of the Tarbur Formation(Campanian-Masstrichtian)of the Zagros Range

A0398; EGU2007-A-02118; SSP22-1MO4P-0398

Maghfouri Moghaddam, I

Microbiostatigraphy of the Tatbur Formation(Upper Cretaceous)of the Zagros Range,Western Iran

A0399; EGU2007-A-08116; SSP22-1MO4P-0399

Agnini, C.; Fornaciari, E.; Raffi, I.; Rio, D.; Röhl, U.; Westerhold, T.

Interactions between early Paleogene calcareous nannoplankton evolution and changes in environmental conditions: evidence from ODP Site 1262

A0400; EGU2007-A-08046; SSP22-1MO4P-0400

Varrone, D.; d'Atri, A.

Foramol ramp evolution in different tectonic settings: examples from internal and external Cenozoic Alpine basins (Western Italy)

A0401; EGU2007-A-07193; SSP22-1MO4P-0401

Koskeridou, E.; Drinia, H.; Antonarakou, A.; Kyriacopoulos, K.

Benthic fauna of a Pleistocene shallow water hydrothermal vent, Kos Island, Aegean Sea

A0402; EGU2007-A-08922; SSP22-1MO4P-0402
Koskeridou, E.; Agiadi-Katsiaouni, K.; Moissette, P.
Fish otoliths and depth variations in the Plio-Pleistocene of Rhodes island, Aegean Sea

A0403; EGU2007-A-08556; SSP22-1MO4P-0403
Barut, I.F.; Meric, E.; Aysar, N.; Unlu, V.S.
Factor determining the distribution of benthic foraminiferal assemblages in the Saltpan and Salt Lakes of Gulf of Saros

A0404; EGU2007-A-10460; SSP22-1MO4P-0404
Gavrilov, Yu.; Shcherbinina, E.
Plausible scenario of certain biospheric events

A0405; EGU2007-A-04913; SSP22-1MO4P-0405
Babazadeh, A.; Amirov, E.
Ostracodes as an indicator of habitat (case study of Holocene ostracodes in the delta of Kura river, the Caspian Sea, Azerbaijan)

Tectonics and Structural Geology

TS0 Open session – Posters

Convener: Ranero, C.
Co-Convener(s): Storti, F., Vannucchi, P.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0802; EGU2007-A-00923; TS0-1MO3P-0802
Majka, J.; Czerny, J.; Manecki, M.; Mazur, S.
New evidence for a late Neoproterozoic (ca. 650 Ma) metamorphic event in the Caledonian basement of Wedel Jarlsberg Land, West Spitsbergen

XY0803; EGU2007-A-02669; TS0-1MO3P-0803
Novák, A.; Madarasi, A.; **Kohlbeck, F.;** Ádám, A.; Szarka, L.; DIMS MT2006
Magnetotellurics along the Austro-Hungarian CELEBRATION-7 profile

XY0804; EGU2007-A-03754; TS0-1MO3P-0804
Häusler, H.; **Scheibz, J.;** Kohlbeck, F.; Kostial, D.; Chwatal, W.
Complementary geophysical investigations revealing camouflaged tectonic structures in the Northern Burgenland (Austria)

XY0805; EGU2007-A-04841; TS0-1MO3P-0805
Häusler, H.; Tódt, T.; Hodits, B.; Hinsch, R.; Grasemann, B.; Payer, T.
The Neusiedl Fault: Results from ultra-high resolution seismics in Lake Neusiedl (Northern Burgenland, Austria)

XY0806; EGU2007-A-06632; TS0-1MO3P-0806
Solaro, G.; Tizzani, P.; Milano, G.; Pauselli, C.
Rheological behaviour of the crust from Neapolitan Volcanic Zone to Apulia foreland, Southern Apennine (Italy)

TS2.1 Faulting in carbonate rocks: new insights on deformation mechanisms, petrophysics, and fluid flow properties – Posters

Convener: Tondi, E.
Co-Convener(s): Agosta, F.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0807; EGU2007-A-01320; TS2.1-1MO3P-0807
Peacock, DCP.; Mann, A.
The chronology of faults, veins, stylolites and joints in carbonate rocks (solicited)

XY0808; EGU2007-A-02148; TS2.1-1MO3P-0808
Antonellini, M.; Tondi, E.; Agosta, F.; Aydin, A.; Cello, G.
Failure modes in carbonates and their impact for fault development: Majella mountain, central Apennines, Italy

XY0809; EGU2007-A-06101; TS2.1-1MO3P-0809
Agosta, F.; Alessandroni, M.; Tondi, E.
Failure modes and fault development in the Miocene carbonate grainstones, Lettomanoppello area, Maiella Mt. (Italy)

XY0810; EGU2007-A-02722; TS2.1-1MO3P-0810
Kurz, W.; Hausegger, S.; **Rabitsch, R.;**
Formation of fault breccias and cataclastic shear zones within layered carbonates: examples from the Eastern Alps

XY0811; EGU2007-A-04008; TS2.1-1MO3P-0811
Ganas, A.; **Spina, V.;** Drakatos, G.; Economou, A.; Alexandropoulou, N.
Geo-structural analyses along the Corini and Erithres active faults, Viotia region, central Greece

XY0812; EGU2007-A-02062; TS2.1-1MO3P-0812
Baud, P.; Vajdova, V.; Vinciguerra, S.; Wong, T.; Reuschle, T.
Compactant and dilatant failure in porous carbonate rocks (solicited)

Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 15:30–17:00

Poster Area Halls X/Y
Chairperson: N.N.

XY0813; EGU2007-A-02067; TS2.1-1MO4P-0813
Carvalho Coelho, L.; **Drummond Alves, J.L.;** Baud, P.; Guevara Junior, N.O.; Wong, T.
The impact of constitutive modeling of porous carbonate rocks on wellbore stability analysis

XY0814; EGU2007-A-04354; TS2.1-1MO4P-0814
Vitale, S.V.; D'Amore, M.D.A.; Frijia, G.F.; Guerriero, V.G.; Iannace, A.I.; Mazzoli, S.M.; Parente, M.P.
Quantifying the role of mechanical stratigraphy and dolomitization in fractured carbonates: the added value of a scale-independent approach linked to petrophysical classes

XY0815; EGU2007-A-02228; TS2.1-1MO4P-0815
Janssen, C.; Rybacki, E.; Dresen, G.
Critical re-evaluation of calcite twins as a low-temperature deformation geothermometer

XY0816; EGU2007-A-10959; TS2.1-1MO4P-0816
Kennedy, L.A.
The effects of dolomite gouge on permeability

XY0817; EGU2007-A-01058; TS2.1-1MO4P-0817
Dmitrievsky, A.N.; **Balanyuk, I.E.;** Akivis, T.M.; Chaikina, O.N.
Influence of Fracture Zones on the Deformation of the Astrakhan Carbonate massif and on Formation of the Giant Hydrocarbon Deposit

XY0818; EGU2007-A-01204; TS2.1-1MO4P-0818
Larsen, B.; Grunnaleite, I.; Gudmundsson, A.
How fracture systems control fluid transport in shallow-water carbonate rocks: an example from the Gargano Peninsula, Italy

TS2.3 Controls on the 3D Orientation of Brittle Fractures: Integrating Theory with Field & Laboratory Measurements

Convener: Healy, D.

Co-Convener(s): Borja, R., Jones, R.

Lecture Room 7

Chairperson: HEALY, D.

10:30–10:45; EGU2007-A-10933; TS2.3-1MO2O-001

Borja, R.I.; Rice, J.R.

Influence of 3D stress state on the triggering and evolution of shear localization and cataclastic flow in porous rocks

10:45–11:00; EGU2007-A-02100; TS2.3-1MO2O-002

Haimson, B.

The effect of the intermediate principal stress on the brittle fracture of rocks (solicited)

11:00–11:15; EGU2007-A-05180; TS2.3-1MO2O-003

Reches, Z.; Buseti, S.; Sagy, A.

Could multiple (“conjugate”) sets of tensile fractures develop simultaneously? (solicited)

11:15–11:30; EGU2007-A-05875; TS2.3-1MO2O-004

Goodwin, L.; Rawling, G.; Riley, P.; Lewis, C.

Non-plane strain in near-surface normal faults in granular porous media (solicited)

11:30–11:45; EGU2007-A-00379; TS2.3-1MO2O-005

Collettini, C.

Frictional control on mainshock and aftershock rupture planes (solicited)

11:45–12:00; EGU2007-A-04717; TS2.3-1MO2O-006

Eichhubl, P.

Orientation of compaction-dominated deformation bands in Aztec Sandstone at Valley of Fire, Nevada, USA.

12:00 END OF SESSION

TS2.3 Controls on the 3D Orientation of Brittle Fractures: Integrating Theory with Field & Laboratory Measurements – Posters

Convener: Healy, D.

Co-Convener(s): Borja, R., Jones, R.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: JONES, R.

XY0819; EGU2007-A-07359; TS2.3-1MO3P-0819

Healy, D.; Borja, R.; Jones, R.

Controls on the 3D Orientation of Brittle Fractures: Integrating Theory with Field & Laboratory Measurements (solicited)

XY0820; EGU2007-A-00619; TS2.3-1MO3P-0820

De Paola, N.; Collettini, C.; Trippetta, F.; Barchi, M. R.; Minelli, G.

A mechanical model for complex fault patterns induced by fluid overpressures due to dehydration reaction within evaporitic rocks

XY0821; EGU2007-A-03300; TS2.3-1MO3P-0821

Exner, U.; Grasemann, B.

A 3D structural model of fault drag from differential GPS mapping: evidence for rotation of high-angle normal faults

XY0822; EGU2007-A-03637; TS2.3-1MO3P-0822

Lohr, T.; Krawczyk, C. M.; Oncken, O.; Tanner, D. C.

3D fault development – displacement variation and morphology analysis of faults identified from 3D seismics

XY0823; EGU2007-A-05677; TS2.3-1MO3P-0823

Jones, R.R.; Kokkalas, S.; Healy, D.

3D fault connectivity, curvature and segmentation due to oblique extension (solicited)

XY0824; EGU2007-A-00259; TS2.3-1MO3P-0824

Tejchman, J.; Wu, W.

A director theory for anisotropy of granular media

XY0825; EGU2007-A-00764; TS2.3-1MO3P-0825

Foster, C.; Regueiro, R.; Borja, R.

Localization analysis of a three-invariant plasticity model with combined isotropic/kinematic hardening

XY0826; EGU2007-A-00991; TS2.3-1MO3P-0826

Sanz, P.; Borja, R.; Pollard, D.

Finite Element Modeling of Fault Related Folds Using Large Deformation Contact Mechanics (solicited)

XY0827; EGU2007-A-02607; TS2.3-1MO3P-0827

Healy, D.; Nippres, SEJ; Jones, RR; Holdsworth, RE

Polymodal faulting by crack or anticrack interaction (solicited)

XY0828; EGU2007-A-07884; TS2.3-1MO3P-0828

Jamtveit, B.; Iyer, K.; Royne, A.; Malthe-Sorensen, A.; Mathiesen, J.; Feder, J.

2- and 3-D hierarchical fracturing driven by hydration reactions

XY0829; EGU2007-A-08914; TS2.3-1MO3P-0829

Corver, M.P.; Werner, E.

Analogue modeling: the role of indenter geometry and erosion in double-vergent orogens.

XY0830; EGU2007-A-10465; TS2.3-1MO3P-0830

Osokina, D.N.; Yakovlev, F.L.; Voitenko, V.N.

Second rank fractures and 3D stress & strain local fields of fault with sides friction as ones development's stages evidence: theory, experiment and natural examples (on the basis of “fracture-crack” and “fracture – shear zone” models study).

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 15:30–17:00

TS Poster Area

Chairperson: N.N.

TS2.4 Absolute dating of the brittle deformation (co-listed in IG) – Posters

Convener: Garcia, S.

Co-Convener(s): Arnaud, N.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0831; EGU2007-A-07896; TS2.4-1MO3P-0831

Enjoly, R.; Monié, P.; Arnaud, N.; Chauvet, A.; Vauchez, A.
A comparative study of the variability of argon isotopic behaviour in pseudotachylites: Examples from Surinam, Turkey, Norway, and Alps.

XY0832; EGU2007-A-09344; TS2.4-1MO3P-0832

Warr, L.N.; van der Pluijm, B.

Dating young frictional melts of the Alpine Fault (New Zealand) by laser ablation $^{40}\text{Ar}/^{39}\text{Ar}$ step heating analysis

XY0833; EGU2007-A-06782; TS2.4-1MO3P-0833

Martin, S.; Vigano', A.; Godard, G.; Laurenzi, M.; Fellin, M.G.

Structural “old” records in young faults: a case study from Eastern Italian Alps

XY0834; EGU2007-A-02289; TS2.4-1MO3P-0834
Drake, H.; Sandström, B.; Page, L.; Tullborg, E-L
 40Ar/39Ar ages of fracture fillings in crystalline Precambrian bedrock, Sweden.

XY0835; EGU2007-A-10276; TS2.4-1MO3P-0835
Haines, S.; van der Pluijm, B.
 Dating the Pyrenean orogenic wedge – Fault gouge ages and thrust belt evolution in the Spanish Pyrenees

XY0836; EGU2007-A-04746; TS2.4-1MO3P-0836
Takagi, H.; Murakami, M.; Tagami, T.; Iwano, H.; Danhara, T.
 Fission-track dating of zircons in pseudotachylytes from a brittle-ductile shear zone

XY0837; EGU2007-A-02732; TS2.4-1MO3P-0837
Rabitsch, R.; Wölfler, A.; Kurz, W.
 Fission track dating in fault zones: an example from the Eastern Alps

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 15:30–17:00

TS Poster Area
 Chairperson: N.N.

TS3.2 Seismogenic coupling zones - state and processes

Convener: Krawczyk, C.
 Co-Convener(s): Rietbrock, A., Ranero, C.
 Lecture Room 5 (I)
 Chairperson: N.N.

13:30–13:45; EGU2007-A-07051; TS3.2-1MO3O-001
Kukowski, N.; Hampel, A.; Norabuena, E.O.; Bialas, J.
 The impact of the descending, rough surface Nazca plate on the hazard potential of the Peruvian convergent margin

13:45–14:00; EGU2007-A-06274; TS3.2-1MO3O-002
Voelker, D.; Grevemeyer, I.; He, J.; Wang, K.; Heesemann, M.
 Thermal Regime of the Chilean Subduction Zone at 38°S and 43°S: modeling Results and Implications for Seismicity

14:00–14:15; EGU2007-A-06466; TS3.2-1MO3O-003
Rietbrock, A.; Haberland, Ch.; Lange, D.; Dahm, T.; Lodge, A.; Bataille, K.; Tilmann, F.; Flueh, E.; TIPTEQ Research Group, .
 Studying the Seismogenic Coupling Zone with a Passive Seismic Array: The TIPTEQ experiment in Southern Chile

14:15–14:30; EGU2007-A-09389; TS3.2-1MO3O-004
Krawczyk, C.M.; Brasse, H.; Haberland, C.; Echtler, H.P.; Wigger, P.; Ritter, O.; Alasonati, P.; Bataille, K.; TIPTEQ Research Group, .
 Depth-graded properties in the seismogenic zone at the South-Central Chilean margin from onshore geophysical observations

14:30–14:45; EGU2007-A-08132; TS3.2-1MO3O-005
Vannucchi, P.; Remitti, F.
 Double décollement zone bordering the subduction channel in an ancient erosive subduction complex: implications for seismogenesis (solicited)

14:45–15:00; EGU2007-A-09295; TS3.2-1MO3O-006
 Behrmann, J.H.; Kukowski, N.; Krawczyk, C.M.; Rietbrock, A.; Schilling, F.; TIPTEQ Research Group, the
 Changing material properties across the south central Chile forearc and impact on seismogenic zone behaviour

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-09439; TS3.2-1MO4O-001
Bangs, N. L.; Moore, G. F.; Yoro, T.; Tanaka, H.; Uraki, S.; Kuramoto, S.; Pangborn, E. M.; Tobin, H. J.
 The 3D structure of the Nankai subduction zone splay fault along the NanTroSEIZE Kumano transect (solicited)

15:45–16:00; EGU2007-A-11527; TS3.2-1MO4O-002
 Ranero, C.R.; Grevemeyer, I.; Weinrebe, W.; Barckhausen, U.; Sahling, H.
 The hydrological system of erosional convergent margins and its influence on long-term tectonics and interplate seismogenesis

16:00–16:15; EGU2007-A-08766; TS3.2-1MO4O-003
Bousquet, R.; Wichura, H.; Oberhänsli, R.; De Capitani, C.; Goffé, B.
 Fluids release, vein formation and their influence on subduction earthquakes

16:15–16:30; EGU2007-A-04248; TS3.2-1MO4O-004
Heesemann, M.; Grevemeyer, I.; Villinger, H.; Flueh, E.; Scherwath, M.; Völker, D.; Eduardo Contreras-Reyes, E.; the TIPTEQ Research Group, and
 Seaward thermal and structural variability along the rupture area of the 1960 Chile Earthquake and its impact on the seismogenic updip limit

16:30–16:45; EGU2007-A-07265; TS3.2-1MO4O-005
Blumberg, S.; Arz, H.W.; Echtler, H.; Lamy, F.; Haug, G.H.; Oncken, O.
 Late Quaternary forearc tectonics documented in marine and lacustrine sediments – Examples from South Central Chile

16:45–17:00; EGU2007-A-02212; TS3.2-1MO4O-006
Melnick, D.; Bookhagen, B.; Moreno, M.; Echtler, H. P.; Rosenau, M.; Klotz, J.; Strecker, M. R.; the TIPTEQ Research Group, .
 Mechanical coupling between megathrust and forearc crustal-scale faults: Insights from the Arauco Bay area, Chile (37°S)

17:00 END OF SESSION

TS3.3/NH4.4 Earthquake Geology (co-organized by NH)

Convener: Caputo, R.
 Co-Convener(s): Pavlides, S.
 Lecture Room 5 (I)
 Chairperson: CAPUTO, R.

8:30–8:45; EGU2007-A-01780; TS3.3/NH4.4-1MO1O-001
Gutiérrez, F.; Bruhn, R.L.; McCalpin, J.P.; Guerrero, J.; Lucha, P.
 Evidence of compressional active tectonics in Ragged Mountain Fault (Southern Alaska)

8:45–9:00; EGU2007-A-01642; TS3.3/NH4.4-1MO1O-002
Brum da Silveira, A.; Cabral, J.; Ribeiro, A.
 The Vidigueira and Alqueva faults (SE Portugal, W Iberia): an example of coupled reverse and normal active faulting in a compressive stress regime.

9:00–9:15; EGU2007-A-00010; TS3.3/NH4.4-1MO1O-003
Estrada, B.; Clark, D.; Dentith, M.; Wyrwoll, K.
 New insights on intraplate seismicity from a "tectonically stable" region in the southwest of Australia

9:15–9:30; EGU2007-A-02560; TS3.3/NH4.4-1MO1O-004
Sherman, S.I.
 Strong earthquakes in the recent fracturing zone of the lithosphere in the Baikal rift system

9:30–9:45; EGU2007-A-07854; TS3.3/NH4.4-1MO1O-005
Shafei Bafti, A.; Shahpasandzadeh, M.; Iranmanesh, F.; Tavakoli, F.; Shirzaii, M.
 Quaternary slip rate on the Kuh Banan strike-slip fault system, Southeast Iran, inferred from geomorphic features and geodetic measurements

9:45–10:00; EGU2007-A-07198; TS3.3/NH4.4-1MO1O-006
Heimann, A.; Baer, G.; Frieslander, U.; Gluck, D.; Greenbaum, N.; Nof, R.; Shamir, G.; Zilberman, E.
 Is the Carmel Fault, a major branch of the Dead Sea Transform, active?

10:00 COFFEE BREAK

Chairperson: PAVLIDES, S. - COLLETTINI, C.

10:30–10:45; EGU2007-A-01886; TS3.3/NH4.4-1MO2O-001
Stewart, I.; Sintubin, M.; Similox-Tolon, D
 Archaeoseismology: A New Standardised Methodology Using Logic Trees

10:45–11:00; EGU2007-A-01711; TS3.3/NH4.4-1MO2O-002
ten Veen, J.H.; Alçiçek, M.C.; Boulton, S.; Özkul, M.
 The role of the Fethiye-Burdur fault zone in the neotectonic evolution of SW Turkey – a combined geological / geoarchaeological approach

11:00–11:15; EGU2007-A-09610; TS3.3/NH4.4-1MO2O-003
Comerci, V.; Di Salvo, C.; Gubbiotti, A.; Guerrieri, L.; Vittori, E.
 Intensity and coseismic surface rupture parameters

11:15–11:30; EGU2007-A-04886; TS3.3/NH4.4-1MO2O-004
Ganas, A.; Spina, V.; Alexandropoulou, N.; Oikonomou, A.; Tondi, E.; Drakatos, G
 The Corini Active Fault in Southwestern Viotia region, central Greece: segmentation, stress analysis and extensional strain patterns

11:30–11:45; EGU2007-A-02982; TS3.3/NH4.4-1MO2O-005
Argnani and the TAORMINA-2006 TEAM, A.; THE TAORMINA-2006 TEAM
 Active tectonics in the Messina Straits and surroundings: preliminary results from the TAORMINA-2006 seismic cruise

11:45–12:00; EGU2007-A-03148; TS3.3/NH4.4-1MO2O-006
Sutherland, R.; the Alpine Fault team
 Do great earthquakes occur on the Alpine fault in central South Island, New Zealand?

12:00 END OF SESSION

TS4.1 Deformation processes: microstructures, textures, rheology (co-listed in MPRG)

Convener: Stunitz, H.
 Co-Convener(s): Heilbronner, R., de Bresser, H.
 Lecture Room 3
 Chairperson: N.N.

8:30–8:45; EGU2007-A-08024; TS4.1-1MO1O-001
Drury, M.R.; Pennock, G.M.
 Subgrain rotation recrystallization in minerals (solicited)

8:45–9:00; EGU2007-A-04976; TS4.1-1MO1O-002
Valcke, S.L.A.; De Bresser, J.H.P.; Drury, M.R.; Pennock, G.M.
 Heterogeneous microstructures in deformed calcite: the relationship of recrystallised grains, core and mantle subgrains to deformation conditions

9:00–9:15; EGU2007-A-09082; TS4.1-1MO1O-003
Brodhag, S.; Herwegh, M.; Berger, A.; Pfiffner, A.
 The role of static processes on microstructure and textures

9:15–9:30; EGU2007-A-04956; TS4.1-1MO1O-004
Trepmann, C.A.; Stöckhert, B.; Dorner, D.; Küster, M.; Röller, K.
 Dynamic and static recrystallization following high stress deformation of quartz – experiment and nature (solicited)

9:30–9:45; EGU2007-A-08356; TS4.1-1MO1O-005
Leiss, B.; Küster, Y.; Seidel, T.; Schramm, M.; Ullemeyer, K.
 Deformation mechanisms of naturally deformed halite mylonites from salt diapirs of the North German Zechstein Basin: Evidences from neutron texture analyses

9:45–10:00; EGU2007-A-08244; TS4.1-1MO1O-006
Cuisiat, F.; Skurtveit, E.; Cleave, R.
 Experimental study of clay-smear and shear band formation in unconsolidated sediments

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-04064; TS4.1-1MO2O-001
White, J.C.;
 Natural deformation of ultra-fine-grained (UFG) and nanostructured limestone (solicited)

10:45–11:00; EGU2007-A-06098; TS4.1-1MO2O-002
ten Grotenhuis, S.; de Bresser, J.; Spiers, C.
 Behaviour of two-phase shear zones in high strain deformation experiments

11:00–11:15; EGU2007-A-06886; TS4.1-1MO2O-003
Menegon, L.; Pennacchioni, G.; Spiess, R.
 The role of dissolution-precipitation creep on the development of crystallographic preferred orientation of K-feldspar in granitic mylonites

11:15–11:30; EGU2007-A-07532; TS4.1-1MO2O-004
Raimbourg, H.; Kimura, G.
 Deformation microstructures and rheological evolution of granulite-facies shear zones in Hokkaido, Japan

11:30–11:45; EGU2007-A-06603; TS4.1-1MO2O-005
Díaz-Azpiroz, M.; Lloyd, G.E.
 Lattice preferred orientation and seismic fabric of metabasites deformed under medium-to-high temperature conditions from the Aracena metamorphic belt (SW Spain)

11:45–12:00; EGU2007-A-06815; TS4.1-1MO2O-006
Fussey, F.; Handy, M.R.
 The propagation of greenschist-facies mylonitic shear zones in rocks with structural anisotropy

12:00 END OF SESSION

TS4.1 Deformation processes: microstructures, textures, rheology (co-listed in MPRG) – Posters

Convener: Stunitz, H.
Co-Convener(s): Heilbronner, R., de Bresser, H.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0838; EGU2007-A-04964; TS4.1-1MO3P-0838

Trepmann, C.A.

Microstructures in quartz veins from the Rochechouart impact structure and St. Paul de la Roche, France – high stress behaviour of quartz during rapid loading

XY0839; EGU2007-A-06551; TS4.1-1MO3P-0839

Díaz-Azpiroz, M.; Lloyd, G.E.

Continuous slip-system transition in naturally deformed plagioclases from the Southern Iberian shear zone (SW Spain)

XY0840; EGU2007-A-03021; TS4.1-1MO3P-0840

Kilian, R.; Heilbronner, R.; Stunitz, H.; Menegon, L

Fabric development in localized ductile shear zones in metagranites of the Gran Paradiso nappe

XY0841; EGU2007-A-07194; TS4.1-1MO3P-0841

Kellermann Slotemaker, A.; **de Bresser, J.H.P.;** Spiers, C.J.
Microstructural evolution of synthetic Fe-bearing forsterite aggregates deforming by grain size sensitive creep

XY0842; EGU2007-A-02370; TS4.1-1MO3P-0842

Delle Piane, C.; Burlini, L.; Kunze, K.

Mechanical and microstructural response to multiple deformation events: insights from torsion experiments on Carrara marble

XY0843; EGU2007-A-08802; TS4.1-1MO3P-0843

Küster, Y.; Leiss, B.; Schramm, M.

Microstructural and crystallographic features and deformation characteristics of the halite fabric type 'Kristallbrocken' from the German Zechstein Basin

XY0844; EGU2007-A-02723; TS4.1-1MO3P-0844

Schoenherr, J.; Schlöder, Z.; Urai, J.L.

Microstructural evolution of deeply buried and surface-piercing Infra-Cambrian Ara Salt from interior Oman: From deposition via burial to uplift

XY0845; EGU2007-A-08112; TS4.1-1MO3P-0845

Armann, M.; Kunze, K.; Burlini, L.; Burg, J.-P.

The evolution of microstructure and crystallographic preferred orientation of synthetic rocksalt with increasing shear strain: Insights from torsion experiments

XY0846; EGU2007-A-07430; TS4.1-1MO3P-0846

Iyer, K.; Jamtveit, B.; Malthé-Sørenssen, A.; Mathiesen, J.; Feder, J

Reaction-assisted hierarchical fracturing during serpentinization

XY0847; EGU2007-A-04546; TS4.1-1MO3P-0847

Booth-Rea, G.; Martínez-Martínez, J.M.; **Azañón, J.M.**

Cooling during crustal underplating at the base of the Calar-Alto unit (Nevado Filabride complex, eastern Betics)

XY0848; EGU2007-A-10220; TS4.1-1MO3P-0848

Doman, D.; Riller, U.

The importance of discontinuous deformation in the eastern Sudbury Igneous Complex, Canada.

XY0849; EGU2007-A-08773; TS4.1-1MO3P-0849

Pueyo Anchuela, Ó.; Gil Imaz, A.; Ipas Lloréns, J.F.; Pocoví Juan, A.; Millán Garrido, H.

Pre-lithification deformations inferred by anisotropy of magnetic susceptibility studies. An example from the Larres marls Formation (Eocene, Southern Pyrenees)

XY0850; EGU2007-A-08451; TS4.1-1MO3P-0850

Kreiter, S.; Mörz, T.; Feeser, V.

Micromechanical control of gas hydrate texture in sediment

XY0851; EGU2007-A-00811; TS4.1-1MO3P-0851

Suetnova, Elena; Cherniavsky, Vladi

Mechanics of time-dependent compaction in accumulating sediments

XY0852; EGU2007-A-03547; TS4.1-1MO3P-0852

Clariana, P.; García-Sansegundo, J.

Micro and mesostructural evidences of north-verging folds in the eastern sector of Pallaresa massif. Axial zone, central Pyrenees

XY0853; EGU2007-A-04438; TS4.1-1MO3P-0853

Gutierrez, M.; Garcia-Sansegundo, J.

Variscan superimposed folding in the Alpine Bono thrust sheet, Axial Zone of the Pyrenees (Spain)

XY0854; EGU2007-A-03763; TS4.1-1MO3P-0854

Vollbrecht, A.; **Leiss, B.;** Banaszak, M.; Ullemeyer, K.

Blastomylonites of the Paleoproterozoic Loftahammar-Linköping Deformation Zone (LLDZ) in southern Sweden, evidence for syndeformational alkali-metasomatism

XY0855; EGU2007-A-00408; TS4.1-1MO3P-0855

Iacopini, D.; Carosi, R

Fabric attractors in non steady - state flow and their application to shear zones

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 15:30–17:00

TS Poster Area
Chairperson: N.N.

TS6.1 Continental and oceanic wrench systems from top to bottom – Posters

Convener: Teyssier, C.

Co-Convener(s): Whitney, D., Brocard, G., Storti, F.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0856; EGU2007-A-10574; TS6.1-1MO3P-0856

Fernández-Ibáñez, F.; Soto, J.I.

Using shallow seismicity and stress field to characterize active wrench systems in the Gibraltar Arc (Western Mediterranean)

XY0857; EGU2007-A-04240; TS6.1-1MO3P-0857

Heinrichs, T.; Al-Zoubi, A

The northern end of the Dead Sea pull-apart basin : shape and relation to Dead Sea Transform

XY0858; EGU2007-A-07632; TS6.1-1MO3P-0858

Ben-Avraham, Z.; Tibor, G.; Al-Zoubi, A.; Niemi, T.;

Hartman, G.; Sade, R.A.; Akawi, E.; Hall, J.; Abueladas, A.
High resolution marine geophysical survey in the northern Gulf of Eilat/Aqaba

XY0859; EGU2007-A-00904; TS6.1-1MO3P-0859

Cifci, G.; Gurcay, S.; Dondurur, D.; Okay, S.; Pekcetinoz, B.

Multi-Channel Seismic Reflection Survey in Gulf of Sigacik and Kusadasi (western Turkey)

XY0860; EGU2007-A-09433; TS6.1-1MO3P-0860
Antobreh, A.A.; Faleide, J.I.; Tsikalas, F.; Planke, S.
 Crustal architecture of the Ghana transform margin deduced from combined interpretation of MCS data and 2D gravity modelling

XY0861; EGU2007-A-02107; TS6.1-1MO3P-0861
Valls, R.
 Geological evolution of the NW corner of the Caribbean Plate

XY0862; EGU2007-A-08298; TS6.1-1MO3P-0862
Marchal, D.; Alvear, M.; Daniel, J-M.
 Influence of the mechanical stratigraphy in the growth of transpressional structures: 4D analogue modeling and applications to the La Concepción field, Venezuela.

XY0863; EGU2007-A-02326; TS6.1-1MO3P-0863
Balsamo, F.; Storti, F.; Giordano, G.; Rossetti, F.
 The Campbell Fault: structural data along a major right-lateral strike-slip fault system in north Victoria Land, Antarctica

XY0864; EGU2007-A-04054; TS6.1-1MO3P-0864
Khatib, Dr
 Mechanism of rotation & deformation of fault rocks in Boushad transpressional shear zone, east of Iran

XY0865; EGU2007-A-05530; TS6.1-1MO3P-0865
Bistacchi, A.; Massironi, M.; Menegon, L.
 Mapping fault-zone architecture along a major Alpine wrench lineament: the Pusteria Fault

XY0866; EGU2007-A-03442; TS6.1-1MO3P-0866
Fritz, H.; Tenczer, V.; Bauernhofer, A.; Hauzenberger, C.A.
 Two Orogens – one Shear Belt: 1Ga of repeated deformation along the Central Tanzanian Shear Belt

XY0867; EGU2007-A-06179; TS6.1-1MO3P-0867
Unzog, W
 Structurally controlled ore mineralizations in a large-scale continental wrench corridor, Nuijiang valley, China

XY0868; EGU2007-A-09704; TS6.1-1MO3P-0868
Denèle, Y.; Olivier, Ph.; Gleizes, G.; Barbey, P.
 Lateral flow of the middle crust in a transpressive regime: the Hospitalet Variscan thermal gneiss dome (Pyrenees, France)

XY0869; EGU2007-A-05581; TS6.1-1MO3P-0869
Whitney, D.L.; Teyssier, C.
 Gneiss domes in continental wrench zones

XY0870; EGU2007-A-00992; TS6.1-1MO3P-0870
Kanjanapayont, P.; Edwards, M.A.; Grasemann, B.
 Strain styles within the Klong Marui continental wrench fault, southern Thailand

XY0871; EGU2007-A-03640; TS6.1-1MO3P-0871
Diamantopoulos, A.; Fountoulis, I.; Dimitrakopoulos, D.
 Deformation-induced structural zonation during inhomogeneous non-coaxial strain: an alternative to extensional tectonics

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 15:30–17:00

TS Poster Area
 Chairperson: N.N.

Convener: Briais, A.
 Co-Convener(s): Morris, A., FONTAINE, F., Chavagnac, V.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 13:30–15:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0872; EGU2007-A-01667; TS8.4/GD06.1/GMPV16-1MO3P-0872
Hébert, R.; Guilmette, C.; Bédard, É.; Dostal, J.; Wang, C.; Li, Y.
 Yarlung Zangbo suture zone ophiolites: mantle and crustal compositions

XY0873; EGU2007-A-08269; TS8.4/GD06.1/GMPV16-1MO3P-0873
Luis, J.; Lourenço, N.; Mata, J.; Madureira, P.; Miranda, M.; Goslin, J.; Perrot, J.; Brachet, C.; Simão, N.
 The “STRIPAREA” cruise: highly detailed multibeam bathymetry survey of Azores Triple Junction area

XY0874; EGU2007-A-06795; TS8.4/GD06.1/GMPV16-1MO3P-0874
Fournier, M.; Chamot-Rooke, N.; Fabbri, O.; Huchon, P.; Lepvrier, C.; Maillot, B.; Petit, C.
 Geophysical survey of the Arabia-India-Somalia triple junction: First results of the AOC cruise (Aden-Owen-Carlsberg) in the NW Indian Ocean

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 15:30–17:00

Poster Area Halls X/Y
 Chairperson: N.N.

XY0875; EGU2007-A-07846; TS8.4/GD06.1/GMPV16-1MO4P-0875
Maia, M.; The PLURIEL Team
 The PLURIEL cruise: insights on temporal evolution of a ridge-hotspot interaction.

XY0876; EGU2007-A-06972; TS8.4/GD06.1/GMPV16-1MO4P-0876
Briais, A.; Ondreas, H.; Klingelhofer, F.; Dosso, L.; Guillou, H.
 Off-axis volcanic ridges on the flanks of the Pacific-Antarctic Ridge

XY0877; EGU2007-A-05197; TS8.4/GD06.1/GMPV16-1MO4P-0877
Simonov, V.A.; Kovyazin, S.V.; Sharkov, E.V.
 Physico-chemical conditions of intrusive complexes forming in the Sierra-Leone Region(Central Atlantic)

XY0878; EGU2007-A-03056; TS8.4/GD06.1/GMPV16-1MO4P-0878
Godard, M.; Lagabriele, Y.; Alard, O.; Gréau, Y.; Harvey, J.
 Partial melting and mantle dynamics at slow spreading ridges: New insights from the geochemistry of peridotites drilled at ODP Sites 1272 and 1274 (Mid-Atlantic Ridge)

XY0879; EGU2007-A-08996; TS8.4/GD06.1/GMPV16-1MO4P-0879
Lissenberg, C.J.; Dick, H.J.B.; Mével, C.
 The effect of melt-rock reaction in the lower oceanic crust on mid-ocean ridge basalt compositions

XY0880; EGU2007-A-03387; TS8.4/GD06.1/GMPV16-1MO4P-0880
Lambart, S.; Laporte, D.; Schiano, P.
 Focused flow and basalt-peridotite interactions beneath mid-ocean ridges: an experimental study

TS8.4/GD06.1/GMPV16 Structure and Dynamics of Mid-Ocean Ridges (co-organized by GD & GMPV) – Posters

XY0881; EGU2007-A-03288; TS8.4/GD06.1/GMPV16-1MO4P-0881

Dusunur, D.; Cannat, M.; Escartin, J.; Lucazeau, F.; Fontaine, F.
Thermal structure of the slow-spreading segment center in the presence of crustal magma chamber

XY0882; EGU2007-A-05472; TS8.4/GD06.1/GMPV16-1MO4P-0882

Tentler, T.; Mulugeta, G.
Magmatic control of extensional deformation at spreading ridges

XY0883; EGU2007-A-06913; TS8.4/GD06.1/GMPV16-1MO4P-0883

Crawford, W.; Seher, T.; Singh, S.; Carton, H.; Combier, V.; Cannat, M.
Near-constant layer 2A thickness along the slow-spreading Lucky Strike segment of the Mid-Atlantic Ridge

TS8.5/GD06.2/GMPV17 Tracing hydrothermal circulation at Mid-ocean ridges using geochemistry, geophysics and modelling – Posters

Convener: Chavagnac, V.

Co-Convener(s): FONTAINE, F., Briais, A., Morris, A.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0884; EGU2007-A-02490; TS8.5/GD06.2/GMPV17-1MO3P-0884

Wu, J.
Hydrothermal source of dissolved iron in the tropical Pacific Ocean

XY0885; EGU2007-A-10604; TS8.5/GD06.2/GMPV17-1MO3P-0885

Gennerich, H.-H.; Marbler, H.; Pape, T.; Weber, S.; Villinger, H.

The structure of the plume at the Mid Atlantic Ridge above the Logatchev Hydrothermal Field in temperature and turbidity data

XY0886; EGU2007-A-10782; TS8.5/GD06.2/GMPV17-1MO3P-0886

Abratis, M.; Frost, B.R.; Searle, R.; IODP Exp. 304/305 Shipboard Scientific Party
Hydrothermal alteration of the oceanic crust recorded by basaltic dykes at Atlantis Massif oceanic core complex, 30°N Mid-Atlantic Ridge

XY0887; EGU2007-A-06633; TS8.5/GD06.2/GMPV17-1MO3P-0887

Alt-Epping, P.; Diamond, L.W.
Fully coupled reactive transport simulations of hydrothermal circulation in oceanic hydrothermal systems

XY0888; EGU2007-A-07354; TS8.5/GD06.2/GMPV17-1MO3P-0888

Ray, D.; Mevel, C.; Banerjee, R.
Serpentinities from Northern Central Indian Ridge, Indian Ocean

XY0889; EGU2007-A-03097; TS8.5/GD06.2/GMPV17-1MO3P-0889

Delacour, A.; Frueh-Green, G. L.; Bernasconi, S. M.; Schaeffer, P.; Frank, M.; Gutjahr, M.; Kelley, D. S.
Influence of high fluid fluxes on sulfur and carbon speciation of serpentinites of the Atlantis Massif

XY0890; EGU2007-A-03115; TS8.5/GD06.2/GMPV17-1MO3P-0890

Beaudoin, Y.; **Scott, S. D.**
Lead as a tracer for magmatic input of metals in seafloor hydrothermal systems

XY0891; EGU2007-A-09151; TS8.5/GD06.2/GMPV17-1MO3P-0891

Krymsky, R.; Belyatsky, B.; Cherkashev, G.; Birck, J.L.
Os isotope composition of sulfide ores and host mafic-ultramafic rocks from hydrothermal field 12° 45'N MAR

XY0892; EGU2007-A-05005; TS8.5/GD06.2/GMPV17-1MO3P-0892

Marques, A.F.A.; Scott, S.D.; Barriga, F.; Fouquet, Y.
Possible magmatic contribution of metals into the hydrothermal systems at the Menez Gwen and Lucky Strike vent fields, Mid-Atlantic Ridge: observations from melt inclusions in plagioclase phenocrysts

XY0893; EGU2007-A-02336; TS8.5/GD06.2/GMPV17-1MO3P-0893

Morgan, S.; McCaig, A.; Yardley, B.; Cann, J.
Seafloor hydrothermal fluid evolution - a study of fluid inclusions from ODP/IODP Hole 1256D

XY0894; EGU2007-A-01814; TS8.5/GD06.2/GMPV17-1MO3P-0894

Scott, S.; Yang, K.
Melt inclusion evidence for magmatic fluids as a source for metals in seafloor hydrothermal systems

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 15:30–17:00

TS Poster Area
Chairperson: N.N.

TS10.1 Linking geodynamic processes in southern Africa: a System Earth approach

Convener: Ritter, O.

Co-Convener(s): Trumbull, R., Uenzelmann-Neben, G., Combrinck, L., Neben, S.

Lecture Room 7

Chairperson: RITTER, O.

8:30–8:45; EGU2007-A-11178; TS10.1-1MO10-001

Lutjeharms, J.; **Swart, S.;** Durgadoo, J.
Aspects of the greater Agulhas Current system (solicited)

8:45–9:00; EGU2007-A-02125; TS10.1-1MO10-002

Uenzelmann-Neben, G.; Huhn, K.
Sedimentary deposits on the southern South African continental margin: indications for the strength of oceanic currents

9:00–9:15; EGU2007-A-05478; TS10.1-1MO10-003

Gohl, K.; Parsiegl, N.; Uenzelmann-Neben, G.
The Agulhas-Karoo Geoscience Transect: tectonic processes along the sheared South African continental margin

9:15–9:30; EGU2007-A-08472; TS10.1-1MO10-004

Weckmann, U.; Ritter, O.; Ryberg, T.; Jung, A.; Stankiewicz, J.; Lindeque, A.; Branch, T.; Becken, M.; de Wit, M.

From the Agulhas Plateau onto the Kaapvaal Craton: A geophysical transect encapsulating Africa's continental accretion history at its southernmost extremity. (solicited)

9:30–9:45; EGU2007-A-03308; TS10.1-1MO10-005

Fernandes, R.M.S.; Combrinck, W.L.; Combrink, A.Z.A.
Delimiting the Nubia-Somalia plate boundary on South Africa using GNSS solutions

9:45–10:00; EGU2007-A-03993; TS10.1-1MO1O-006
Kounov, A.; Viola, G.; Niedermann, S.; de Wit, M.; Andreoli, M.; Erzinger, J.
 Mesozoic-Cenozoic denudation history of the Atlantic passive margin and its hinterland along the western coast of South Africa.

10:00–10:15; EGU2007-A-06275; TS10.1-1MO1O-007
Hirsch, K.K.; Scheck-Wenderoth, M.; Paton, D.A.; di Primio, R.; Horsfield, B.; Cloetingh, S.; Beekman, F.
 3D Gravity Modelling and Subsidence Analysis in the Orange Basin, Southwest African Continental Margin

10:15 END OF SESSION

TS10.1 Linking geodynamic processes in southern Africa: a System Earth approach – Posters

Convener: Ritter, O.
 Co-Convener(s): Trumbull, R., Uenzelmann-Neben, G., Combrinck, L., Neben, S.
 Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 13:30–15:00
 Poster Area Halls X/Y
 Chairperson: UENZELMANN-NEBEN, G.

XY0895; EGU2007-A-00378; TS10.1-1MO3P-0895
Schlüter, P.; Uenzelmann-Neben, G.
 35 Ma of climate and ocean gateway history, archived in the Transkei Basin off South Africa (solicited)

XY0896; EGU2007-A-02836; TS10.1-1MO3P-0896
 Li, X.; **Uenzelmann-Neben, G.;** Huhn, K.
 Modelling the evolution of currents south of South Africa since mid-Miocene times based on the Agulhas Drift, southwest Indian Ocean

XY0897; EGU2007-A-02124; TS10.1-1MO3P-0897
Uenzelmann-Neben, G.; Klaeschen, D.; Krahmann, G.; Reston, T.; Visbeck, M.
 Seismic Reflections Within the Water Column South of South Africa: Indications for the Agulhas Retroflexion

XY0898; EGU2007-A-09841; TS10.1-1MO3P-0898
 König, M.; Jokat, W.; Gohl, K.; **Uenzelmann-Neben, G.**
 Structure and evolution of the Mozambique Ridge and Mozambique Basin

XY0899; EGU2007-A-07202; TS10.1-1MO3P-0899
 Parsiegl, N.; **Gohl, K.;** Uenzelmann-Neben, G.
 Crustal structures and processes along the sheared South African continental margin

XY0900; EGU2007-A-02737; TS10.1-1MO3P-0900
Stankiewicz, J.; Ryberg, T.; Schulze, A.; Weber, M.; de Wit, M.J.
 Imaging the crustal structures of southernmost Africa using wide angle seismics

XY0901; EGU2007-A-08497; TS10.1-1MO3P-0901
Lindeque, A.S.; Ryberg, T.; Weber, M.H.; De Wit, M.J.
 A Near Vertical Seismic Reflection Profile Across the Beattie Magnetic Anomaly, South Africa

XY0902; EGU2007-A-00800; TS10.1-1MO3P-0902
Jung, A.; Weckmann, U.; Ritter, O.; de Wit, M.
 Along strike variations of the Beattie Magnetic Anomaly (South Africa) mapped with magnetotellurics

XY0903; EGU2007-A-08386; TS10.1-1MO3P-0903
Ritter, O.; Branch, T.; Weckmann, U.
 The Whitehill Formation – a high conductivity marker horizon in the Karoo Basin

XY0904; EGU2007-A-11726; TS10.1-1MO3P-0904
 Barker, C.; Gauert, C.
 Sustainable land use interpretation of remote sensing data of the Modder, Seekoei and upper Orange River catchment areas, Eastern Free State, South Africa

XY0905; EGU2007-A-10427; TS10.1-1MO3P-0905
Jones, A.G.; Hamilton, M.P.; Miensopust, M.; Muller, M.R.; Evans, R.L.; Fourie, C.J.; Ngwisanyi, T.; Hutchins, D.; Evans, S.F.; Mountford, A.; THE SAMTEX TEAM
 Lithospheric structure of Southern Africa deduced from the Southern African MT Experiment (SAMTEX) project

XY0906; EGU2007-A-02810; TS10.1-1MO3P-0906
Korte, M.; Manda, M.; Kotzé, P.
 Geomagnetic field changes over southern Africa

XY0907; EGU2007-A-09118; TS10.1-1MO3P-0907
Simoes, M.; Braun, J.; Guillocheau, F.; Rouby, D.; Helm, C.; Bonnet, S.; Robin, C.
 Quantifying the evolution of the African topography from sedimentary archives.

XY0908; EGU2007-A-02899; TS10.1-1MO3P-0908
Kuhlmann, G.; Paton, D.; di Primio, R.; van der Spuy, D.; Horsfield, B.
 Modelling hydrocarbon generation and migration within a passive continental margin setting, Orange Basin (South Africa)

XY0909; EGU2007-A-07901; TS10.1-1MO3P-0909
Neben, S.; Schreckenberger, B.; Franke, D.
 Margin Segmentation and volcano-tectonic Architecture along the volcanic Margin off Namibia/South Africa, South Atlantic

XY0910; EGU2007-A-02785; TS10.1-1MO3P-0910
Anka, Z.; Séranne, M.; di Primio, R.; Scheck-Wenderoth, M.
 Evidence and implications of an upper-Cretaceous deep-sea fan on the Abyssal Plain of the Congo-Angola basin

XY0911; EGU2007-A-05715; TS10.1-1MO3P-0911
Franco, A.; Hackspacher, P.; Glasmacher, U.; Saad, A.; Hadler Neto, J.
 Low-temperature rift and post-rift evolution of the south-eastern Brazil continental margin -apatite fission-track thermochronology of the Ponta Grossa Arch –

Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 15:30–17:00

TS Poster Area
 Chairperson: N.N.

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G – Geodesy	286
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TS – Tectonics and Structural Geology	348
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SC – EGU Short Courses	/
F – Forums	/

MEETING PROGRAMME

TUESDAY

Union Symposia

US4 Toward a model/data synergy for understanding large changes in Earth Climate History: From the First Glaciation of the Earth to the Quaternary (abstract submission by invitation only) (co-listed in CL)

Convener: Ramstein, G.
Co-Convener(s): Valdes, P., Lézine, A., Lohmann, G.
Lecture Room 4 (H)
Chairperson: GODDERIS, Y.

8:30–8:45; EGU2007-A-11557; US4-1TU10-001
Ramstein, G.

Introduction to the session US4: Toward a model/data synergy for understanding large changes in Earth Climate History: From the First Glaciation of the Earth to the Quaternary (solicited)

8:45–9:15; EGU2007-A-05701; US4-1TU10-002

Peltier, W.R.; Liu, Y.
A Carbon dioxide "Attractor" in the Neoproterozoic (solicited)

9:15–9:45; EGU2007-A-05267; US4-1TU10-003

Poulsen, C.J.; Horton, D.; Pollard, D.
Causes and Consequences of the Termination of the Late Paleozoic Ice Age (solicited)

9:45–10:00; EGU2007-A-11231; US4-1TU10-004

Berthelin, M.; Broutin, J.; Fluteau, F.
A Permian glacial episode in Oman: palynologic study and of the Permo-Carboniferous glaciolacustrine Al Khlat Formation (Sultanate of Oman). Palaeoclimatic modelling and palaeoenvironmental context (solicited)

10:00 COFFEE BREAK

Chairperson: VALDES, P.J.

10:30–11:00; EGU2007-A-07831; US4-1TU20-001

Godderis, Y.; Donnadieu, Y.; Pierrhumbert, R.; Dromart, G.; Fluteau, F.; Jacob, R.
The Mesozoic trends in climate and carbon cycle evolution. (solicited)

11:00–11:15; EGU2007-A-09285; US4-1TU20-002

Donnadieu, Y.; Godd  ris, Y.; Fluteau, F.
Is there a link between the strength of the weathering feedback and the delay in biological recovery for two major extinctions events in the Earth history? (solicited)

11:15–11:45; EGU2007-A-06709; US4-1TU20-003

Buffetaut, E.
A K/T boundary climate paradox (solicited)

11:45–12:15; EGU2007-A-05395; US4-1TU20-004

Ridgwell, A.; Panchuk, K.; Kump, L.
Application of Earth system models to understanding catastrophic changes in global carbon cycling at the PETM (solicited)

12:15 LUNCH BREAK

Chairperson: LEZINE, A.M.

13:30–14:00; EGU2007-A-11158; US4-1TU30-001

Tripati, A.; Dawber, C.
Early Cenozoic glacial history: Insights from Pacific records of seawater $\delta^{18}O$ (solicited)

14:00–14:15; EGU2007-A-09568; US4-1TU30-002

Lallier-Verges, E.; Di-Giovanni, C.; Gallaud, A.; Charreau, J.; Chen, Y.
Optical study of organic matter as a tool for documenting environmental variations (solicited)

14:15–14:45; EGU2007-A-03006; US4-1TU30-003

Haywood, A. M.; Valdes, P. J.; Peck, V. L.; Lunt, D. J.; Hill, D. J.
A permanent El Ni  o-like state during the Pliocene & the onset of Northern Hemisphere glaciation (solicited)

14:45–15:15; EGU2007-A-03716; US4-1TU30-004

BRUNET, MB
On the track of a new cradle of Mankind...In Chad, Central Africa (solicited)

15:15 COFFEE BREAK

Chairperson: LOHMANN, G

15:30–16:00; EGU2007-A-09229; US4-1TU40-001

Sepulchre, P.; Ramstein, G.; Kageyama, M.; Vanhaeren, M.; Krinner, G.; Sanchez-Goni, M.F.; d'Errico, F.
H4 abrupt event and late Neanderthal Presence in Iberia (solicited)

16:00–16:30; EGU2007-A-03703; US4-1TU40-002

Duplessy, J.C.; Roche, D.M.; Kageyama, M.
North-South teleconnection in the deep ocean during the last interglacial period (solicited)

16:30–17:00; EGU2007-A-05582; US4-1TU40-003

Otto-Bliesner, B.L.; Brady, E.C.; Briegleb, B.; Rosenbloom, N.
Using climate model simulations and data to understand the sensitivity to magnitude and location of freshwater forcings during the last deglaciation (solicited)

17:00 COFFEE BREAK

Chairperson: LOHMANN, G

17:30–18:00; EGU2007-A-10943; US4-1TU50-001

Abe-Ouchi, A.; Segawa, T.; Saito, F.
What are the main factors determining the Northern Hemisphere Glaciation and ice age cycle? (solicited)

18:00–18:30; EGU2007-A-08502; US4-1TU50-002

Guiot, J.; Brewer, S.
Palaeoclimate simulations : toward a proxy data assimilation (solicited)

18:30 END OF SESSION

Mon

Tue

Wed

Thu

Fri

Educational Symposia

ES1 GIFT Workshop: Geosciences in the City

Convener: Laj, C.
Co-Convener(s): Cifelli, F., Funicello, F.
Lecture Room 9 (P)

Atmospheric Sciences

AS1.04 Clouds, Aerosols and Radiation (General Session) – Posters

Convener: Spichtinger, P.
Co-Convener(s): Stubenrauch, C., Kärcher, B.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0001; EGU2007-A-00363; AS1.04-1TU3P-0001
Das, I; Mohan, M
Atmospheric gravity waves in IRS P4 OCM derived Aerosol Optical Depth

XY0002; EGU2007-A-00362; AS1.04-1TU3P-0002
Das, I; Mohan, M
Spatial variation of Aerosol Optical Depth over the oceanic regions of India from IRS P4 OCM

XY0003; EGU2007-A-00178; AS1.04-1TU3P-0003
Sabbah, I
Aerosol's impact upon Kuwait's atmospheric temperature

XY0004; EGU2007-A-08030; AS1.04-1TU3P-0004
Hatzianastassiou, N.; Matsoukas, C.; Vardavas, I.
Modelling the direct effect of aerosols on solar radiation based on satellite observations, reanalysis datasets, and spectral aerosol optical properties from Global Aerosol Data Set (GADS)

XY0005; EGU2007-A-01222; AS1.04-1TU3P-0005
Kokhanovsky, A.; THE AEROSOL RETRIEVAL TEAM
The determination of aerosol optical thickness over Germany using different satellite algorithms and instruments: an inter-comparison study based on spectral top-of-atmosphere measurements of AATSR, MERIS, MISR, MODIS, POLDER, and SCIAMACHY

XY0006; EGU2007-A-04279; AS1.04-1TU3P-0006
Sayer, A; Grainger, R; Thomas, G
A dual-view optimal estimation scheme for aerosol retrieval using AATSR data

XY0007; EGU2007-A-06983; AS1.04-1TU3P-0007
Mielonen, T.; Arola, A.; Lehtinen, K.E.J; Kolmonen, P.; Lihavainen, H.; Kaurila, T.; Parmes, E.
Comparison of satellite derived AOD values with PFR measurements in Sodankylä and Jokioinen

XY0008; EGU2007-A-06315; AS1.04-1TU3P-0008
Rezaei, Y; Mobasheri, M.R
A fast method for removing the Aerosols from MODIS images in north of Iran

XY0009; EGU2007-A-09137; AS1.04-1TU3P-0009
Dinter, T.; von Hoyningen-Huene, W.; Kokhanovsky, A.; Burrows, J. P.; Diouri, M.
Satellite retrieval of aerosol properties over bright reflecting desert regions

XY0010; EGU2007-A-03258; AS1.04-1TU3P-0010
Raut, J.C.; Chazette, P.
Vertical profiles of aerosol complex refractive index using a synergy between lidar and in situ measurements

XY0011; EGU2007-A-03524; AS1.04-1TU3P-0011
Zieger, P.; Preusker, R.; Ruhtz, T.; Fischer, J.
Dual-Aureole and Sun Spectrometer System for Airborne Measurements of Aerosol Optical Properties

XY0012; EGU2007-A-04757; AS1.04-1TU3P-0012
Baumgardner, D.; popovicheva, O.; gierens, K.; miyake-lye, R.; niessner, R.; petters, M.; puxbaum, H.; suzanne, J.; villenave, E.; **rossi, M.J.**
The Atmospheric Soot Network (ASN): a resource for atmospheric modelers and experimentalists alike

XY0013; EGU2007-A-06745; AS1.04-1TU3P-0013
Bonacquisti, V.; Palmieri, S.; Siani, A.M.
Retrieval of AOD from ground based Brewer spectrophotometer measurements in Rome.

XY0014; EGU2007-A-07341; AS1.04-1TU3P-0014
Elias, T.; Haeffelin, M.; Bergot, T.; Musson-Genon, L.
Column aerosol extinction properties as initial conditions for fog formation in a polluted environment: preliminary study

XY0015; EGU2007-A-09771; AS1.04-1TU3P-0015
Kaskaoutis, D.G.; Kambezidis, H.D.; Badarinath, K.V.S.; Kosmopoulos, P.; Nastos, P.
Aerosol climatology over two AERONET sites: an overview

XY0016; EGU2007-A-02596; AS1.04-1TU3P-0016
Irshad, R.; Peters, D. M.; Grainger, R. G.; Smith, K. M.; McPheat, R. A.; Williams, R. G.
Laboratory measurements of sea salt aerosol refractive index

XY0017; EGU2007-A-04023; AS1.04-1TU3P-0017
Peters, D. M.; Grainger, R. G.; Thomas, G.; McPheat, R. A.
Laboratory measurements of the complex refractive index of Saharan dust aerosol

XY0018; EGU2007-A-10802; AS1.04-1TU3P-0018
Frank, G.P.; Dusek, U.; Rose, D.; Pöschl, U.; Andreae, M.O.
Prediction and parameterization of CCN concentrations

XY0019; EGU2007-A-02692; AS1.04-1TU3P-0019
Anttila, T.; Kerminen, V.-M.
Influence of newly formed particles on cloud formation - a parametric sensitivity study

XY0020; EGU2007-A-10739; AS1.04-1TU3P-0020
Metzger, S.; Lelieveld, J.
The importance of aerosol water for air pollution effects on weather and climate - a new concept

XY0021; EGU2007-A-11448; AS1.04-1TU3P-0021
Gensch, I.; cirrus scientists team
Partitioning of H₂SO and HNO₃ in different type of cirrus clouds

XY0022; EGU2007-A-08756; AS1.04-1TU3P-0022
Mendrok, J.; Baron, P.; Kasai, Y.
Impact of cirrus on retrieval of UTLS ozone and chlorine compounds from SMILES data

XY0023; EGU2007-A-02452; AS1.04-1TU3P-0023
Morrison, H.; Grabowski, W. W.
Bulk microphysics schemes suitable for assessing the indirect impact of atmospheric aerosols

XY0024; EGU2007-A-09189; AS1.04-1TU3P-0024
Cheng, T.; Peng, Y.; Feichter, J.; Tegen, I.
An improvement of the dust emission scheme in the global aerosol-climate model ECHAM5-HAM

XY0025; EGU2007-A-07247; AS1.04-1TU3P-0025
Rap, A.; Ghosh, S.; Smith, M.H.
A multi-component aerosol-cloud parameterisation for global climate modelling

XY0026; EGU2007-A-07601; AS1.04-1TU3P-0026

Roelofs, G.J.

Influence of Ocean Organic Emissions on Aerosol and Cloud in the North Atlantic Region, a Model Study.

XY0027; EGU2007-A-01397; AS1.04-1TU3P-0027

Zhao, Z

Study of aerosol and cloud interactions over North Eastern China

XY0028; EGU2007-A-03052; AS1.04-1TU3P-0028

Roebeling, R.A.; Deneke, H.M.; Feijt, A.J.

Validation of cloud liquid water path retrievals from SEVIRI using one year of CloudNET observations

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 15:30–17:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0945; EGU2007-A-03041; AS1.04-1TU4P-0174

Schmidt, K. S.; Coddington, O.; Pilewskie, P.; Redemann, J. Airborne Measurements of Aerosol radiative Forcing, Surface Albedo, and Flux Divergence during MILAGRO

XY0029; EGU2007-A-03517; AS1.04-1TU4P-0029

Placidi, S.; Roebeling, R.A.; Donovan, D.P.; Russchenberg, H.W.J.; Boers, R.

Validation of cloud geometrical thickness retrieved from Meteosat-8/SEVIRI for stratocumulus clouds.

XY0030; EGU2007-A-03748; AS1.04-1TU4P-0030

Borde, R.

Atmospheric motion vectors height assignment techniques using Meteosat Seconde Generation

XY0031; EGU2007-A-07470; AS1.04-1TU4P-0031

Lindstrot, R.; Preusker, R.; Fischer, J.

An algorithm for the retrieval of cloud top pressure and effective extinction height using combined observations of MERIS and AATSR

XY0032; EGU2007-A-08021; AS1.04-1TU4P-0032

Hollmann, R.; Mueller, R.W.; Behr, H.D.

The surface radiation budget from the CM-SAF: Validation of short- and long-wave data sets for African and Oceanic sites

XY0033; EGU2007-A-06765; AS1.04-1TU4P-0033

Del Bianco, S.; Gai, M.; Santurri, L.; Cecchi-Pestellini, C.; Dinelli, B. M.; Carli, B.

Retrieval of minor constituents in a cloudy atmosphere with remote sensing millimeter wave measurements

XY0034; EGU2007-A-09983; AS1.04-1TU4P-0034

Rautenhaus, M.; Austin, P.

Neural network satellite retrievals of nocturnal stratocumulus cloud properties

XY0035; EGU2007-A-04150; AS1.04-1TU4P-0035

Brandau, C.; Russchenberg, H.W.J.; Krasnov, O.A.; Knap, W.H.; Los, A.; Boers, R.

Evaluation of ground-based retrieved droplet concentration for stratocumulus clouds, using cloud optical properties

XY0036; EGU2007-A-10161; AS1.04-1TU4P-0036

Schween, J.H.

Banner Clouds at Mount Zugspitze in Germany

XY0037; EGU2007-A-10598; AS1.04-1TU4P-0037

Deneke, H.; Roebeling, R.; Wolters, E.; Boers, R.

Intercomparison of Cloud Property Retrievals from MSG-SEVIRI and MODIS

XY0038; EGU2007-A-11404; AS1.04-1TU4P-0038

Stubenrauch, C. J.; Armante, R.; Crevoisier, C.; Pierangelo, C.; Scott, N. A.; Chédin, A.

Cloud properties from AIRS

XY0039; EGU2007-A-07337; AS1.04-1TU4P-0039

Rydberg, B.; Eriksson, P.; Ekström, M.; Murtagh, D. P.

Observations of ice cloud properties from Odin-SMR

XY0040; EGU2007-A-08923; AS1.04-1TU4P-0040

Maestri, T.; Holz, R.E.; Rizzi, R.

Retrieval of cloud optical properties from infrared hyperspectral measurements: a new methodology based on a line-by-line multiple scattering code.

XY0041; EGU2007-A-09940; AS1.04-1TU4P-0041

Hesse, E.; Clarke, A.J.M.; Ulanowski, Z.; Kaye, P.H.

Light scattering by ice crystals modelled using the Ray Tracing with Diffraction on Facets method

XY0042; EGU2007-A-03127; AS1.04-1TU4P-0042

Schmidt, K. S.; Pilewskie, P.; Platnick, S.

Towards a direct Derivation of Spectral Irradiance from Satellite Retrievals of heterogeneous Cirrus Clouds

XY0043; EGU2007-A-07104; AS1.04-1TU4P-0043

Davis, C. P.

Inhomogeneity effects in space-borne mm/sub-mm cirrus observations

XY0044; EGU2007-A-06778; AS1.04-1TU4P-0044

Noel, V.; **Haefelin, M.**

Midlatitude cirrus clouds and multiple tropopauses from a 4-year climatology over the SIRTa observatory

XY0045; EGU2007-A-03676; AS1.04-1TU4P-0045

Fusina, F.; Spichtinger, P.; Lohmann, U.

The impact of ice supersaturated regions and thin cirrus clouds on radiation

XY0046; EGU2007-A-11327; AS1.04-1TU4P-0046

Wahl, S.; Macke, A.

Application of different 3D radiative flux parameterizations in the global atmospheric circulation model ECHAM 5

XY0047; EGU2007-A-01302; AS1.04-1TU4P-0047

Rodríguez De León, R.; Lee, D. S.

Contrail global radiative forcing

XY0048; EGU2007-A-05316; AS1.04-1TU4P-0048

Lim, L. L.; Ponater, M.; Lee, D. S.

Optimization of critical relative humidity over ice for cirrus cloud formation in Sundqvist parameterisation

XY0049; EGU2007-A-00217; AS1.04-1TU4P-0049

Krakovska, S.; Brenguier, J.-L.; Geoffroy, O.; Sandu, I.

Tests of the bulk cloud microphysics parameterizations in the detailed explicit cloud model

XY0050; EGU2007-A-00310; AS1.04-1TU4P-0050

Dorman, B.; Bakhanov, V.; Kryvobok, O.

Simulation of microphysical and optical characteristics of frontal mixed clouds

XY0051; EGU2007-A-00792; AS1.04-1TU4P-0051

Golitsyn, G.S.; Rutkevich, B.P.; **Rutkevich, P. B.**

Dynamics of cloud formation in atmosphere

XY0052; EGU2007-A-07668; AS1.04-1TU4P-0052

Spichtinger, P.

Internal dynamics of cirrus clouds - some sensitivity studies

XY0053; EGU2007-A-05609; AS1.04-1TU4P-0053

Göring, L.; Borth, H.; Wirth, V.

Regime Transitions due to Icecloud-Radiation Interaction in an Aquaplanet GCM

XY0054; EGU2007-A-01305; AS1.04-1TU4P-0054
Williams, K. D.; Tselioudis, G.
 GCM intercomparison of global cloud regimes: Present-day evaluation and climate change response

XY0055; EGU2007-A-03069; AS1.04-1TU4P-0055
Paquin-Ricard, D.; Jones, C. G.; Vaillancourt, P.
 Evaluation of cloud representation in the Canadian GEM model using ARM data

AS1.07 Solar UV

Convener: Weihs, P.
 Co-Convener(s): Putz, E.
 Lecture Room 10 (E1)
 Chairperson: N.N.

13:30–13:45; EGU2007-A-09671; AS1.07-1TU3O-001
van Dijk, A.; van Wijnen, H.; Slaper, H.
 CFC-emission, UV-exposure and skin-cancer: global scenarios for the 21-st century

13:45–14:00; EGU2007-A-11457; AS1.07-1TU3O-002
 Garane, K.; **Tourpali, K.;** Bais, A.F.; Meleti, C.
 Signals from natural fluctuations in the re-evaluated surface UV irradiance record of Thessaloniki, Greece

14:00–14:15; EGU2007-A-11130; AS1.07-1TU3O-003
Laszlo, I.; Su, W.
 Surface ultraviolet irradiance derived from GOES data

14:15–14:30; EGU2007-A-08749; AS1.07-1TU3O-004
Schmalwieser, A.W.; Schauburger, G.; Grant, W.B.; Mackin, S.J.; Pope, S.
 A first experiences in measuring, modeling and forecasting the vitamin D effective UV radiation

14:30–14:45; EGU2007-A-08735; AS1.07-1TU3O-005
Wagner, J.; Simic, S.; Weihs, P.
 First case studies of 3-D-Monte-Carlo Radiative transfer calculations in mountainous terrain in the UV wavelength range

14:45–15:00; EGU2007-A-08408; AS1.07-1TU3O-006
Gonzi, SG.; Putz, EP; Hubinger, BH
 AERONET, OPAC and aerosol optical properties in UV

15:00–15:15; EGU2007-A-02917; AS1.07-1TU3O-007
Hülsen, G.; Gröbner, J.; Blumthaler, M.; Gil Roca, J.; Vilaplana Guerrero, J.; Vuilleumier, L.; Walker, D.
 Results from the PMOD/WRC-COST726 broadband inter-comparison campaign

15:15 END OF SESSION

AS1.07 Solar UV – Posters

Convener: Weihs, P.
 Co-Convener(s): Putz, E.
 Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 10:30–12:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0058; EGU2007-A-00316; AS1.07-1TU2P-0058
Rieder, H.; Holawe, F.; Simic, S.; Weihs, P.
 Reconstruction of past UV-levels in Austria: A comparison between alpine and urban regions

XY0059; EGU2007-A-02064; AS1.07-1TU2P-0059
Rampelotto, P. H.; Schuch, N.J.; Rosa, M. B.; Schuch, A. P.; Lima, A. P.; Pinheiro, D. K.; Munakata, N.
 UV-B radiation, ozone, spore dosimetry and meteorological data from 1996 to 2006 at Southern Brazil

XY0060; EGU2007-A-05200; AS1.07-1TU2P-0060
Hlavinka, P.; Trnka, M.; Weihs, P.; Žalud, Z.; Eitzinger, J.
 Testing of simple empirical model for UV-ERY estimating at selected European stations

XY0061; EGU2007-A-08151; AS1.07-1TU2P-0061
 Litynska, Z.; De Backer, H.; Koepke, P.; **Schmalwieser, A.W.;** Gröbner, J.
 COST 726: Long term changes and climatology of UV radiation over Europe

XY0062; EGU2007-A-08259; AS1.07-1TU2P-0062
 Koepke, P.; **Schmalwieser, A.W.;** COST 726 Working Group 2
 Comparison of algorithms and input data for modelling solar ultraviolet radiation in the past

XY0063; EGU2007-A-06804; AS1.07-1TU2P-0063
Ialongo, I.; Casale, G. R.; Siani, A. M.
 Validation of OMI UV products: first results of comparison with ground-based data at Rome

XY0064; EGU2007-A-09767; AS1.07-1TU2P-0064
Simic, S.; Weihs, P.; Rieder, H.
 Validation of OMI UV products: first results of comparisons with two Austrian

XY0065; EGU2007-A-08536; AS1.07-1TU2P-0065
Schmalwieser, A.W.; Schauburger, G.; Erbertseder, Th.; Janouch, M.; Coetzee, G.J.R.; Weihs, Ph.
 Uncertainties of calculated erythemally effective UV radiation from restricted availability and uncertainties in measured total ozone

XY0066; EGU2007-A-01569; AS1.07-1TU2P-0066
Laska, K.; Prosek, P.; Budik, L.; Budikova, M.; Milinevsky, G.
 Comparison of total UV and erythemally effective UVB radiation at the Mendel and Vernadsky stations, Antarctica

XY0067; EGU2007-A-11446; AS1.07-1TU2P-0067
Wuttke, S.; El Naggar, S.; Schrems, O.
 Ship-borne UV and ozone measurements in the northern and southern hemisphere

XY0068; EGU2007-A-06427; AS1.07-1TU2P-0068
Cheymol, A.; De Backer, H.
 Impact of aerosol particle concentrations on UV index prediction

XY0069; EGU2007-A-06638; AS1.07-1TU2P-0069
BESNARD, Th.; BERGER, L
 Definition of the cloud spatial distribution for modelling of UV

XY0070; EGU2007-A-11443; AS1.07-1TU2P-0070
Walker, D.; Vuilleumier, L.; Staehelin, J.
 Short term variability of erythemal UV radiation due to clouds

XY0071; EGU2007-A-08047; AS1.07-1TU2P-0071
 Schmalwieser, A.W.; Cabaj, A.; Maier, H.; Fischer, W.; Stadlmann, H.; Rohn, H.
 Measurements of the facial UV exposure using electronic two channel broadband devices

XY0072; EGU2007-A-06868; AS1.07-1TU2P-0072
 Enzi, C.; **Weihs, P.;** Schmalwieser, A.
 UV (ultraviolet) exposure as a function of weather, occupation and 3-D environment in Vienna and environment

AS1.08 The quasi-biennial oscillation and its role in the climate system (co-listed in CL)

Convener: Giorgetta, M.
Co-Convener(s): Gray, L.
Lecture Room 10 (E1)
Chairperson: N.N.

15:30–15:45; EGU2007-A-09932; AS1.08-1TU40-001
Bushell, A.

Modelling the quasi-biennial oscillation in the UK Met Office middle atmosphere GCM

15:45–16:00; EGU2007-A-09032; AS1.08-1TU40-002
Shuckburgh, E

The influence of the quasi-biennial oscillation on isentropic transport and mixing in the tropics and subtropics

16:00–16:15; EGU2007-A-08747; AS1.08-1TU40-003
Bruehl, C.; Steil, B.; Joeckel, P.; Giorgetta, M.

The influence of the QBO on longlived chemical tracers in the CCM ECHAM5/MESSy1 and in satellite data

16:15–16:30; EGU2007-A-11103; AS1.08-1TU40-004
Kilifarska, N.A.; Mukhtarov, P.J.

Upper Troposphere-Lower Stratosphere (UTLS) – Main Arena for the Interplay between Solar Variability and Stratospheric Winds' QBO

16:30–16:45; EGU2007-A-06233; AS1.08-1TU40-005
Giorgetta, M. A.; Schmidt, H.; Brasseur, G. P.

Interaction of the solar cycle and the QBO in HAMMONIA simulations

16:45–17:00; EGU2007-A-07837; AS1.08-1TU40-006
Baldwin, M.; Kossin, J.
Hurricanes and the QBO

17:00 END OF SESSION

AS1.08 The quasi-biennial oscillation and its role in the climate system (co-listed in CL) – Posters

Convener: Giorgetta, M.
Co-Convener(s): Gray, L.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0073; EGU2007-A-03983; AS1.08-1TU3P-0073
Brönnimann, S.; Annis, J. L.
Reconstructing the Quasi-Biennial Oscillation back to 1900

XY0074; EGU2007-A-08727; AS1.08-1TU3P-0074
Punge, H.J.; Giorgetta, M.A.
Differences between the QBO in the first and in the second half of the ERA-40 reanalysis

XY0075; EGU2007-A-02427; AS1.08-1TU3P-0075
Mayr, H.; Mengel, J.; Huang, F.; Nash, E.
Evidence of QBO-generated 5-year oscillation in stratospheric NCEP data

XY0076; EGU2007-A-09836; AS1.08-1TU3P-0076
d'Ovidio, F.; Legras, B.
Lyapunov diffusion, tropical pipe and the QBO

XY0077; EGU2007-A-09216; AS1.08-1TU3P-0077
Punge, H.J.; Giorgetta, M.A.
Impact of the QBO on trace gas distributions in a chemistry-climate model

XY0078; EGU2007-A-04528; AS1.08-1TU3P-0078
Dall'Amico, M.; Egger, J.
QBO and solar cycle influences on the Arctic middle stratosphere investigated with empirical master equations

XY0079; EGU2007-A-10482; AS1.08-1TU3P-0079
Sitnov, S.
Influence of the 11-year solar cycle on the effects of the equatorial quasi-biennial oscillation, manifesting in tropopause height, tropopause temperature and surface pressure in the extratropics.

AS2.02 Air-Sea Interactions (General Session)

Convener: Makin, V.
Co-Convener(s): Wells, N.
Lecture Room 1 (G)
Chairperson: MAKIN, V., WELLS, N.

15:30–15:45; EGU2007-A-02632; AS2.02-1TU40-001
Gulev, S.K.
Reconstruction of surface turbulent fluxes in the North Atlantic: 1880-2004

15:45–16:00; EGU2007-A-01608; AS2.02-1TU40-002
Hasager, C.B.; Christiansen, M.B.; Soerensen, L.L.
The Galathea 3 expedition combining results from satellite and ship

16:00–16:15; EGU2007-A-09333; AS2.02-1TU40-003
Brusch, St.; Lehner, S.; Stellenfleh, J.-S.
Remote sensing of severe storm system

16:15–16:30; EGU2007-A-05729; AS2.02-1TU40-004
Katsaros, K.; Bentamy, A.; Pinker, R.; Drennan, W.; Mestas nunez, A.; Liu, W. T.; Carton, J.; The Satellite Flux Team
Air-sea fluxes in the tropical Atlantic from satellite measurements

16:30–16:45; EGU2007-A-00585; AS2.02-1TU40-005
Kudryavtsev, V.; Shkira, V.; Dulov, V.; Malinovsky, V.
On vertical structure of wind-driven sea surface currents (solicited)

16:45–17:00; EGU2007-A-08367; AS2.02-1TU40-006
Caulliez, G.; Makin, V.K.; Kudryavtsev, V.N.
Drag of the water surface at extremely short fetches: observations and modelling (solicited)

17:00–17:15; EGU2007-A-09761; AS2.02-1TU40-007
Ginis, L.; Fan, Y.; Hara, T.
Effect of surface waves on energy and momentum fluxes across air-sea interface

17:15–17:30; EGU2007-A-02666; AS2.02-1TU40-008
Kudryavtsev, V.N.; **Makin, V.K.**
Aerodynamic roughness of the sea surface at high winds

17:30 END OF SESSION

AS2.02 Air-Sea Interactions (General Session) – Posters

Convener: Makin, V.
Co-Convener(s): Wells, N.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: KUDRYAVTSEV, V., WELLS, N.

XY0080; EGU2007-A-00424; AS2.02-1TU3P-0080
Ermakov, S.; Gushin, L.; Lazareva, T.; Makarov, E.; Kapustin, I.; Sergievskaya, I.
Marine slicks due to inhomogeneous currents. Field observations.

XY0081; EGU2007-A-04766; AS2.02-1TU3P-0081
Zhamsueva, G.; Zayakhanov, A.; Tsydygov, V.;
Ayurzhanaev, A.
Carbonic gas exchange on the Lake Baikal

XY0082; EGU2007-A-05646; AS2.02-1TU3P-0082
Surkova, G.
Air-sea heat and water vapour exchange in coastal zone and their dependence on the wind direction

XY0083; EGU2007-A-07868; AS2.02-1TU3P-0083
Tanny, J.; Cohen, S.; Assouline, S.; Lange, F.; Grava, A.; Berger, D.; Teltch, B.; Parlange, M.B.
Evaporation from a Small Reservoir: Direct Measurements and Estimates

XY0084; EGU2007-A-09102; AS2.02-1TU3P-0084
Sahlée, E.; Smedman, A.-S.; Rutgersson, A.
A comparison between temperature spectra and Webb corrected humidity and CO₂ spectra in the marine boundary layer

XY0085; EGU2007-A-03015; AS2.02-1TU3P-0085
de Vries, J.W.; **Burgers, G.J.H**
The Need for high-resolution Downscaling in extreme Storm Surge Forecasts

XY0086; EGU2007-A-07237; AS2.02-1TU3P-0086
Wilkenskjeld, S.
Numerical evidence for reduced drag coefficient during the North Sea storm Anatol.

XY0087; EGU2007-A-02691; AS2.02-1TU3P-0087
Alvarez, I.; Gomez-Gesteira, M.; deCastro, M.; Novoa, E.M.
Spatial patterns of wind and favorable upwelling conditions along the Galician Coast (NW Spain)

XY0088; EGU2007-A-04055; AS2.02-1TU3P-0088
Dhoms, AL; Garric, G; Drillet, Y; Bentamy, A
Use of a wind-stress blended dataset to drive a regional Mercator 1/4° configuration

XY0089; EGU2007-A-04476; AS2.02-1TU3P-0089
Wolf, J; Osuna, P
Wave climate on the NW European Continental Shelf

XY0090; EGU2007-A-05407; AS2.02-1TU3P-0090
Dahech, S; Beltrando, G
Inland sea breeze penetration and its impact on air temperature and humidity in Sfax (Middle-Eastern Tunisia)

XY0091; EGU2007-A-08572; AS2.02-1TU3P-0091
Belamari, S.; Garric, G.; Pirani, A.; Caniaux, G.
Evaluation, in a global modelling context, of a unified multi-campaign bulk parameterization for air-sea turbulent fluxes

AS2.03 Basic Studies on Turbulence in Atmospheric and Oceanic Boundary Layers (General Session)

Convener: Petrosyan, A.
Co-Convener(s): Taylor, P., Belcher, S.
Lecture Room 1 (G)
Chairperson: N.N.

8:30–9:00; EGU2007-A-01083; AS2.03-1TU1O-001
Zilitinkevich, S.S.; Elperin, T.; Kleerorin, N.; Rogachevskii, I.
Turbulence closure problem for stably stratified flows (solicited)

9:00–9:30; EGU2007-A-04162; AS2.03-1TU1O-002
Vesala, T.
Turbulence and biosphere-atmosphere exchange (solicited)

9:30–9:45; EGU2007-A-06286; AS2.03-1TU1O-003
Hunt, JCR; Princevac, M; Carruthers, DJ; Fernando, HJS
Modelling Slope Flows and Dispersion in Complex Terrain with Weak Geostrophic Winds (solicited)

9:45–10:00; EGU2007-A-01057; AS2.03-1TU1O-004
Esau, I.
Enhancement of turbulent mixing over thermally heterogeneous surfaces

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-10190; AS2.03-1TU2O-001
Chamecki, M.; **Meneveau, C.;** Parlange, M. B.
Boundary condition models and large eddy simulation of pollen transport in the atmospheric boundary layer (solicited)

10:45–11:00; EGU2007-A-09965; AS2.03-1TU2O-002
Stoll, R.; Porte-Agel, F.
Surface heterogeneity effects on regional-scale fluxes in stable boundary layers: a tuning-free dynamic LES approach

11:00–11:15; EGU2007-A-10000; AS2.03-1TU2O-003
Wan, F.; Porte-Agel, F.
Performance of dynamic subgrid-scale models in large-eddy simulations of turbulent flow over two-dimensional sinusoidal hills

11:15–11:30; EGU2007-A-10853; AS2.03-1TU2O-004
Owinoh, A; Stevens, B; Klein, R
Multiple scale asymptotics for stratocumulus clouds

11:30–11:45; EGU2007-A-11593; AS2.03-1TU2O-005
Sorbjan, Z
Self-similarity in the atmospheric boundary layer revisited

11:45–12:00; EGU2007-A-09901; AS2.03-1TU2O-006
Perov, V.; Sukoriansky, S.; Galperin, B.
Atmospheric surface layer parameterization in a weather prediction system HIRLAM

12:00 END OF SESSION

AS2.03 Basic Studies on Turbulence in Atmospheric and Oceanic Boundary Layers (General Session) – Posters

Convener: Petrosyan, A.
Co-Convener(s): Taylor, P., Belcher, S.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0092; EGU2007-A-00909; AS2.03-1TU3P-0092
Henshaw, S.J.; Shallcross, D.E.; Nickless, G.; Makepeace, A.P.W
Using fast response CO₂ detectors to analyse the flow and emissions in street canyons

XY0093; EGU2007-A-03005; AS2.03-1TU3P-0093
Müller, F.; **Chlond, A.**
Validation of Large-Eddy Simulations of the convective boundary layer against high quality comprehensive LIDAR-DIAL humidity flux measurements

XY0094; EGU2007-A-03649; AS2.03-1TU3P-0094
Couvreux, F.; Guichard, F.; Masson, V.; Redelsperger, J.-L.
Negative water vapour skewness and dry tongues in the convective boundary layer: LES budget analysis

XY0095; EGU2007-A-03715; AS2.03-1TU3P-0095

Laubrich, T.; Kantz, H.

Spatially correlated signals in turbulent windfields

XY0096; EGU2007-A-04379; AS2.03-1TU3P-0096

Fesquet, C.; **Drobinski, P.;** Dubos, T.; Barthlott, C.; Pietras, C.

Conceptual models of the atmospheric surface layer: statistical assessment as a function of stratification using SIRT observations

XY0097; EGU2007-A-04898; AS2.03-1TU3P-0097

Likso, T.; Pandzic, K.

Estimation of wind speed at 2 m from routine weather data

XY0098; EGU2007-A-05076; AS2.03-1TU3P-0098

Frehlich, R.; Meillier, Y.; Jensen, M.

In situ and lidar derived boundary layer profiles of winds and turbulence

XY0099; EGU2007-A-05173; AS2.03-1TU3P-0099

Horn, S.; Raabe, A.

Frequency domain analysis and modelling of velocity in the surface layer to develop a trajectory diaspore dispersal model.

XY0100; EGU2007-A-05192; AS2.03-1TU3P-0100

McNaughton, K.G.; Clement, R.J.; Moncrieff, J.B.

Scaling temperature spectra near the ground in a convective boundary layer

XY0101; EGU2007-A-05967; AS2.03-1TU3P-0101

Syrakov, E.

On the bulk Richardson number parameterization method with taking into account the long lived PBL regimes

XY0102; EGU2007-A-06451; AS2.03-1TU3P-0102

Pergaud, J.; Masson, V.; Malardel, S.

Parameterization of convective boundary layers using mass-flux scheme

XY0103; EGU2007-A-07312; AS2.03-1TU3P-0103

Kramer, W.; Armenio, V.; Clercx, H.

Numerical investigation of the turbulent oscillating boundary layer with applied wind stress

XY0104; EGU2007-A-08172; AS2.03-1TU3P-0104

Kurowski, M.; Grabowski, W.; Haman, K.; Malinowski, S.P. Numerical investigation of entrainment and mixing near the stratocumulus top

XY0105; EGU2007-A-09937; AS2.03-1TU3P-0105

Gryschka, M.; Etling, D.; Raasch, S.

Large eddy simulation of a cold air outbreak during ARTIST98: stationary versus non-stationary model domain

XY0106; EGU2007-A-10151; AS2.03-1TU3P-0106

Wu, Y.T.; Porte-Agel, F.; Stoll, R.

Impact of non-uniform emission of reacting scalars on the chemical transformations in the atmospheric boundary layer: An LES study

XY0107; EGU2007-A-10475; AS2.03-1TU3P-0107

Eiff, O.; Moulin, F.Y.; Durande, M.; Walter, J.

Longitudinal momentum transport in an experimental free-surface channel flow over a transverse variation of roughness

XY0108; EGU2007-A-11147; AS2.03-1TU3P-0108

Cote, O.R.; Wroblewski, D.E.; Hacker, J.M.; Dobosy, R.; Roadcap, J.R.

Turbulence parameter space, budgets, scaling laws, and structure parameter models in stably stratified shear flows from aircraft measurements

XY0109; EGU2007-A-11597; AS2.03-1TU3P-0109

Petrosyan, A.; Karelsky, K.

A new model for boundary layer flows interacting with particulates in land surface on complex terrain

AS2.04 Boundary Layers in High Latitudes: Observations and Modeling (Colisted in CR and CL)

Convener: Neff, W.

Co-Convener(s): Argentini, S., Anderson, P., Heinemann, G. Lecture Room 1 (G)

Chairperson: NEFF, W.

13:30–13:45; EGU2007-A-01448; AS2.04-1TU3O-001

Tjernström, M

The diurnal cycle of the cloud-capped Arctic summer boundary layer

13:45–14:00; EGU2007-A-04662; AS2.04-1TU3O-002

Fairall, C.; Grachev, A.

An Analysis of Turbulent and Radiative Flux Gradient Relationships in the Highly Stable Polar Surface Layer

14:00–14:15; EGU2007-A-02636; AS2.04-1TU3O-003

Argentini, S.; Pietroni, I.; Mastrantonio, G.; Viola, A. One year of atmospheric measurements at Dome C, Antarctica

14:15–14:30; EGU2007-A-03334; AS2.04-1TU3O-004

van de Berg, W. J.; van den Broeke, M. R.; van Meijgaard, E.

Model-Simulated Heat Budget of the Antarctic Atmospheric Boundary Layer

14:30–14:45; EGU2007-A-04471; AS2.04-1TU3O-005

Grachev, A.; Andreas, E.; **Fairall, C.;** Guest, P.; Persson, O. Influence of stability on the turbulent Prandtl number in the stable atmospheric boundary layer

14:45–15:00; EGU2007-A-11245; AS2.04-1TU3O-006

Convener, A.

Poster Presentations

15:00 END OF SESSION

AS2.04 Boundary Layers in High Latitudes: Observations and Modeling (Colisted in CR and CL) – Posters

Convener: Neff, W.

Co-Convener(s): Argentini, S., Anderson, P., Heinemann, G. Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 15:30–17:00

Poster Area Halls X/Y

Chairperson: ARGENTINI, S.

XY0110; EGU2007-A-00080; AS2.04-1TU4P-0110

Pirazzini, R.; Vihma, T.; Granskog, M.; Cheng, B.

Surface radiation budget and cloud radiative forcing on sea ice during the spring snowmelt period in the Baltic Sea

XY0111; EGU2007-A-00081; AS2.04-1TU4P-0111

Pirazzini, R.; **Vihma, T.**

On the factors controlling the 2-m air temperature in the Antarctica in winter

XY0112; EGU2007-A-04585; AS2.04-1TU4P-0112

Neff, W.

Arguments for improvements in the surface observing network over the interior of Antarctica

XY0113; EGU2007-A-02996; AS2.04-1TU4P-0113

Lüers, J.; Bareiss, J.

Direct measurements of turbulent fluxes in the near surface environment at high latitudes applying the eddy-covariance method. The Arctic Turbulence Experiment 2006 (ARCTEX-2006)

XY0114; EGU2007-A-02113; AS2.04-1TU4P-0114

Lu, Y; Ma, Y

Numerical Simulation of Summer Local Atmospheric Circulation and Atmospheric Boundary Layer Characteristics over Alpine Lake Namco, Tibetan Plateau

XY0115; EGU2007-A-02656; AS2.04-1TU4P-0115

Casini, G.; Morelli, S.

Katabatic wind and Terra Nova Bay polynya: a study using two different versions of the Eta model

XY0116; EGU2007-A-01450; AS2.04-1TU4P-0116

Sedlar, J; Tjernström, M; Žagar, M; THE ARCMIP TEAM
Boundary layer and clouds in Arctic regional climate models

XY0117; EGU2007-A-01064; AS2.04-1TU4P-0117

Esau, I.

Intercomparisons of turbulence statistics derived from large-eddy simulation and field databases

XY0118; EGU2007-A-04365; AS2.04-1TU4P-0118

Weiss, A.; Lachlan-Cope, T.; Ladkin, R.; King, J.

Aircraft observations of the maritime atmospheric boundary layer over sea ice in the Antarctic

XY0119; EGU2007-A-07296; AS2.04-1TU4P-0119

Anderson, P; Jones, A; Roscoe, H

Vertical profiles through an Antarctic surface ozone depletion event

XY0120; EGU2007-A-07450; AS2.04-1TU4P-0120

Gallée, H.

Characteristics of the low troposphere over the antarctic plateau as simulated by a regional climate model

AS3.02 Aerosol Chemistry and Microphysics (General Session)

Convener: Kiendler-Scharr, A.

Co-Convener(s): Coe, H., Mentel, T.

Lecture Room 12 (E2)

Chairperson: ALFARRA, R. AND MENTEL, T.

13:30–14:00; EGU2007-A-04004; AS3.02-1TU3O-001

Andreae, M O; Dusek, U; Frank, G P; Garland, R M; Gunthe, S; Pöschl, U; Rose, D; Zhang, Y-H; Zhu, T
Aerosols from tailpipe to countryside – A look at the early part of the life cycle of anthropogenic aerosols (solicited)

14:00–14:15; EGU2007-A-01828; AS3.02-1TU3O-002

Hoffmann, M. R.; Guzman, M. I.; Colussi, A. J.

In situ production of HULIS in atmospheric aerosol from the solar photolysis of small molecular weight dicarbonyls

14:15–14:30; EGU2007-A-04102; AS3.02-1TU3O-003

van Pinxteren, D.; Brüggemann, E.; Herrmann, H.

Field measurements of dicarboxylic acids: Spatial distribution, seasonal trends and influence of air mass origin

14:30–14:45; EGU2007-A-05584; AS3.02-1TU3O-004

Gallagher, M.W.; Bower, K.N.; Martin, C.; Allan, J.; Crosier, J.; Capes, G; Coe, H.; Longley, I.; Nemitz, E.

Measurement of aerosol composition and fluxes in two urban areas.

14:45–15:00; EGU2007-A-07717; AS3.02-1TU3O-005

Pozzoli, L.; Bey, I.; Rast, S.; Schultz, M.; Stier, P.; Feichter, J.

Impact of trace gas-aerosol interactions on the global aerosol distributions in the chemistry-aerosol-climate coupled ECHAM5-HAMMOZ model

15:00–15:15; EGU2007-A-01719; AS3.02-1TU3O-006

Gaie-Levrel, F.; Clainquart, D.; Quisefit, J.-P.; Perrier, S.; Doussin, J.-F.; Schwell, M.

First results on the real-time analysis of laboratory produced SOA, using a new resonance-enhanced multiphoton ionisation aerosol mass spectrometer.

15:15 COFFEE BREAK

Chairperson: MARSTON, G. AND COE, H.

15:30–16:00; EGU2007-A-04733; AS3.02-1TU4O-001

Thornton, J. A.; McNeill, V. F.; Wolfe, G. M.; Wood, R.
The fate and effects of organics at atmospheric interfaces (solicited)

16:00–16:15; EGU2007-A-00439; AS3.02-1TU4O-002

Dinar, E.; Rudich, Y.

Ammonia uptake by organic aerosols and its effect on their water uptake properties

16:15–16:30; EGU2007-A-01701; AS3.02-1TU4O-003

Segal-Rosenheimer, M; **Dubowski, Y**

Pesticides aging in the atmosphere: heterogeneous reaction of cypermethrin with ozone

16:30–16:45; EGU2007-A-02620; AS3.02-1TU4O-004

Karagulian, F.; **rossi, M.J.**

Brief overview of the heterogeneous chemistry of N₂O₅ and NO₃ with flame soot from a lean and stoichiometric decane (C₁₀H₂₂) flame

16:45–17:00; EGU2007-A-11131; AS3.02-1TU4O-005

D'Anna, B.; Jammoul, A; George, C; Stemmler, K; Fahrni, S; Ammann, M

Photo-induced uptake of ozone onto humic acids film and submicron aerosols

17:00–17:15; EGU2007-A-10100; AS3.02-1TU4O-006

Murphy, S.M.; Sorooshian, A.; Kroll, J.H.; Ng, N.L.; Chhabra, P.; Tong, C.; Surratt, J.D.; **Knipping, E.M.;** Flagan, R.C.; Seinfeld, J.H.

Secondary aerosol formation from atmospheric reactions of aliphatic amines

17:15 END OF SESSION

AS3.09 Source apportionment of particulate matter

Convener: Prevot, A.

Co-Convener(s): Larsen, B.

Lecture Room 10 (E1)

Chairperson: N.N.

8:30–8:45; EGU2007-A-06920; AS3.09-1TU1O-001

Szidat, S.; Ruff, M; Wacker, L; Perron, N; Sandradewi, J; Alfara, MR; Prévôt, ASH; Hallquist, M; Shannigrahi, AS; Baltensperger, U

Source apportionment of carbonaceous aerosols with radio-carbon (solicited)

8:45–9:00; EGU2007-A-04265; AS3.09-1TU1O-002

May, B.; Steier, P.; Pio, C.; Puxbaum, H.; Wagenbach, D.

The fossil carbon fraction of the european clean-air aerosol

9:00–9:15; EGU2007-A-03943; AS3.09-1TU1O-003

Decesari, S.; Facchini, M. C.; Fuzzi, S.; Rinaldi, M.; Mircea, M.; Bonasoni, P.; Cristofanelli, P.; Moretti, F.; Tagliavini, E.

Source identification of oxidized organic aerosols in the continental boundary layer and in the free troposphere by nuclear magnetic resonance (NMR) spectroscopic techniques.

9:15–9:30; EGU2007-A-09832; AS3.09-1TU1O-004
Treutlein, B.; Pöschl, U.
Measurement of primary biogenic aerosol particles with an ultraviolet aerodynamic particle sizer (UVAPS)

9:30–9:45; EGU2007-A-00431; AS3.09-1TU1O-005
Hopke, P.K.
Receptor Modeling: Assessment of the State-of-the-Art (solicited)

9:45–10:00; EGU2007-A-08423; AS3.09-1TU1O-006
Pandolfi, M; Viana, M; Querol, X; Alastuey, A; Minguilón, M C; Monfort, E
Inter-comparison of receptor models for source apportionment of particulate matter in an industrialized ceramic area in Eastern Spain

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-08787; AS3.09-1TU2O-001
Larsen, B.; Juninnen, H.; Rey, M.; Duvalle, R.; Jimenez, J.; Niedzialek, J.; Astorga, C.; Tsakowsky, S.; Viana, M.; Wahlin, P.
Receptor modeling source apportionment of PM10 and benzo(a)pyrene in Krakow, Poland

10:45–11:00; EGU2007-A-04380; AS3.09-1TU2O-002
Vecchi, R.; the NU.TE.LL.A. team
PM10 time-resolved mass closure and source apportionment by Positive Matrix Factorization in Milan (Italy)

11:00–11:15; EGU2007-A-07753; AS3.09-1TU2O-003
Yatkin, S.; Bayram, A.
Comparison of positive matrix factorization and chemical mass balance models for source apportionment of particulate matter in Izmir, Turkey

11:15–11:30; EGU2007-A-11341; AS3.09-1TU2O-004
Schnelle-Kreis, J.; Sklorz, M.; Orasche, J.; Zimmermann, R.
Source contributions of semi volatile organic compounds in ambient PM2.5

11:30–11:45; EGU2007-A-00910; AS3.09-1TU2O-005
Ulbrich, I; Zhang, Q; Salcedo, D; Dzepina, K; Docherty, K; Canagaratna, M; Worsnop, D; Jimenez, J
Source apportionment of Aerosol Mass Spectrometer data in Pittsburgh, Mexico City, and Riverside, California by positive matrix factorization

11:45–12:00; EGU2007-A-04344; AS3.09-1TU2O-006
Lanz, V. A.; Alfarra, M. R.; Baltensperger, U.; Buchmann, B.; Hueglin, C.; Prévôt, A.
Source apportionment of submicron organic aerosol during wintertime inversions: a new factor analytical approach

12:00 END OF SESSION

AS3.11 The Tropospheric Ice Phase

Convener: Curtius, J.
Co-Convener(s): Lawrence, M.
Lecture Room 12 (E2)
Chairperson: N.N.

8:30–9:00; EGU2007-A-05105; AS3.11-1TU1O-001
Heymsfield, A. J.
Midlatitude thru Tropical Ice Cloud Properties from In-situ Measurements (solicited)

9:00–9:15; EGU2007-A-05367; AS3.11-1TU1O-002
Krämer, M.; CIRRUS-III Team
Overview of the CIRRUS-III midlatitude frontal cirrus field experiment

9:15–9:30; EGU2007-A-05268; AS3.11-1TU1O-003
Baltensperger, U.; CLACE Team
Aerosol Partitioning in Mixed-Phase Clouds

9:30–9:45; EGU2007-A-02720; AS3.11-1TU1O-004
Cziczo, D. J.; Gallavardin, S.; Herich, H.; Keller, L.; Lohmann, U.
The Chemical Composition of Ice Nuclei in Mixed Phase Clouds

9:45–10:00; EGU2007-A-08681; AS3.11-1TU1O-005
Nillius, B.; Bingemer, H.; Bundke, U.; **Jaenicke, R.;** Wetter, T.
First Measurement Results of the Fast Ice Nucleus Counter FINCH

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–11:00; EGU2007-A-02442; AS3.11-1TU2O-001
Abbatt, J.; Benz, S.; Cziczo, D.; Kanji, Z.; Moehler, O.
Laboratory studies of ice chemistry: uptake of trace gases and onsets for deposition nucleation (solicited)

11:00–11:15; EGU2007-A-11488; AS3.11-1TU2O-002
Miedaner, M. M.; Huthwelker, T.; Enzmann, F.; Kersten, M.; Ammann, M.; Stamparoni, M.
On the kinetics of trapping air bubbles and salt precipitates during freezing of diluted salt solution droplets

11:15–11:30; EGU2007-A-06130; AS3.11-1TU2O-003
Peter, T.; Marcolli, C.; Spichtinger, P.; Corti, T.; Luo, B.P.; Baker, M.B.; Koop, T.; Krämer, M.; Möhler, O.; Vömel, H.
The high supersaturation puzzle

11:30–11:45; EGU2007-A-04305; AS3.11-1TU2O-004
Lelieveld, J.; Brühl, c; Jöckel, P.; Steil, B.; Fischer, H.; Giorgetta, M.; Hoor, P.; Lawrence, M.; Tost, H.
Role of cumulonimbus and ice clouds in tropical tropopause desiccation

11:45–12:00; EGU2007-A-05618; AS3.11-1TU2O-005
Göring, L.; Borth, H.; Wirth, V.
Regime Transitions due to Icecloud-Radiation Interaction in an Aquaplanet GCM

12:00 END OF SESSION

AS3.11 The Tropospheric Ice Phase – Posters

Convener: Curtius, J.
Co-Convener(s): Lawrence, M.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0121; EGU2007-A-03489; AS3.11-1TU4P-0121
Zobrist, B.; **Koop, T.;** Luo, B.P.; Marcolli, C.; Peter, T.
Heterogeneous Ice Nucleation induced by Surfactant Monolayers

XY0122; EGU2007-A-05577; AS3.11-1TU4P-0122
Kahan, T.F.; Donaldson, D.J.
Photolysis of polycyclic aromatic hydrocarbons on water and ice surfaces

XY0123; EGU2007-A-05578; AS3.11-1TU4P-0123

Kahan, T.F.; Reid, J.P.; Donaldson, D.J.

Raman spectroscopy as a probe for the quasi-liquid layer at the ice surface

XY0124; EGU2007-A-07697; AS3.11-1TU4P-0124

Benz, S.; Möhler, O.; Schnaiter, M.; Wagner, R.; Saathoff, H.; Leisner, T.

Ice Nucleation by Aqueous and Crystalline Sulphate Particles: New Experiments in the Aerosol Chamber AIDA

XY0125; EGU2007-A-09255; AS3.11-1TU4P-0125

Oancea, A.; Focsa, C.; Hanoune, B.; Chazallon, B.

Raman analysis of ice-gas co-deposits generated from mass spectrometry calibrated vapor mixtures

XY0126; EGU2007-A-09379; AS3.11-1TU4P-0126

Kerbrat, M.; Huthwelker, T.; Gäggeler, H. W.; Pinzer, B.; Schneebeli, M.; Ammann, M.

Co-adsorption of nitrous acid and acetic acid on ice

XY0127; EGU2007-A-04035; AS3.11-1TU4P-0127

Leroy, D.; Wobrock, W.; Flossmann, A

A re-analysis of airborne measurements in the upper level of a cumulonimbus during CRYSTAL-FACE by means of a high resolved 3D cloud model with detailed (bin) microphysics

XY0128; EGU2007-A-07594; AS3.11-1TU4P-0128

Maurer, R.; Immler, F.; Schrems, O.; Becker, C

Lidar observations of droplets and plate-like ice crystals in layered mixed phase clouds

XY0129; EGU2007-A-10823; AS3.11-1TU4P-0129

Jones, H.; Connolly, P.; Choularton, T.; Brown, P.; Blyth, A

Formation of ice particles in cumulus clouds over the UK

XY0130; EGU2007-A-06566; AS3.11-1TU4P-0130

Raupach, S.M.F.; Curtius, J.; Vössing, H.J.; Borrmann, S.

Groundbased digital in situ holography of large atmospheric particles in mixed phase clouds at the alpine site Jungfraujoch

XY0131; EGU2007-A-02600; AS3.11-1TU4P-0131

Winterhalter, R.; Williams, J.; Fries, E.; Sieg, K.; Moortgat, G.K.

Concentrations of dicarboxylic acids in freshly precipitated snow samples at the high altitude research station Jungfraujoch during CLACE 5

XY0132; EGU2007-A-07134; AS3.11-1TU4P-0132

Schneider, J.; Walter, S.; Curtius, J.; Drewnick, F.; Borrmann, S.; Mertes, S.; Weingartner, E.; Gysel, M.; Cozic, J

In-situ analysis of free tropospheric aerosol and small ice crystal residuals using a high resolution aerosol mass spectrometer (HR-ToF-AMS) at Jungfraujoch during CLACE 5

XY0133; EGU2007-A-07251; AS3.11-1TU4P-0133

Sieg, K.; Fries, E.; Püttmann, W.; Jaeschke, W.; Winterhalter, R.; Williams, J.

Occurrence of VOC in snow and ice in spring at Jungfraujoch (46.6°N, 8.0°E) in 2005 and 2006 during CLACE 4 and 5

XY0134; EGU2007-A-08631; AS3.11-1TU4P-0134

Crawford, I.; Gallagher, M.W.; Bower, K.; Choularton, T.W.; Connolly, P.; Flynn, M.; Verheggen, B.; Weingartner, E.; Mertes, S

Observations of phase transitions in mixed phase cloud during CLACE

XY0135; EGU2007-A-09627; AS3.11-1TU4P-0135

Rose, D.; Frank, G. P.; Dusek, U.; Gysel, M.; Weingartner, E.; Walter, S.; Curtius, J.; Pöschl, U.

Cloud condensation nuclei (CCN) concentrations and efficiencies on Jungfraujoch during the CLACE-5 campaign

XY0136; EGU2007-A-01192; AS3.11-1TU4P-0136

Zimmermann, F.; Ebert, M.; Worringer, A.; Schuetz, L.; Weinbruch, S.

Environmental scanning electron microscopy (ESEM) as a new technique to determine the ice nucleation the ice nucleation capability of individual atmospheric aerosol particles

XY0137; EGU2007-A-08251; AS3.11-1TU4P-0137

Bundke, U.; Bühner, B.; Wetter, T.; Krämer, M.; Afchine, A.

PADDY (Passiv Airflow Dewpoint Detection Assambly) a new, small and fast Frost- and Dew Point Hygrometer for Use in an Aircraft Wingpod

XY0138; EGU2007-A-08430; AS3.11-1TU4P-0138

Klein, H.; Bingemer, H. G.; Bundke, U.; Wetter, T.

Measurements of atmospheric ice nuclei using a vacuum diffusion chamber and CCD detection

XY0139; EGU2007-A-11360; AS3.11-1TU4P-0139

Palitzsch, K.; Bundke, U.; Fries, E.; Haunold, W.; Jaeschke, W.; Nillius, B.; Starokozhev, E.

A 'virtual wall' ice reaction chamber for growing airborne ice crystals to investigate their interaction with volatile organic compounds (VOC) under laboratory conditions

XY0140; EGU2007-A-02276; AS3.11-1TU4P-0140

von Blohn, N.; Diehl, K.; Mitra, S.K.; Borrmann, S.

Wind tunnel studies on the growth of ice particles by riming and determination of retention coefficients of trace gases

XY0141; EGU2007-A-07278; AS3.11-1TU4P-0141

Salzmann, M.; Lawrence, M. G.; Phillips, V.T.J.; Donner, L. J.

Release of tracers from freezing hydrometeors as a transport pathway to the UT: model sensitivity studies

XY0142; EGU2007-A-06109; AS3.11-1TU4P-0142

Kamphus, M.; Ettner-Mahl, M.; Drewnick, F.; Curtius, J.; Mertes, S.; Borrmann, S.

Chemical analysis of ambient aerosol particles and ice nuclei in mixed phase clouds by single particle laser ablation mass spectrometry

XY0143; EGU2007-A-03485; AS3.11-1TU4P-0143

de Reus, M.; Szakall, M.; Vössing, H.; Raupach, S.; Curtius, J.; Weigel, R.; Borrmann, S.

Cirrus Cloud Particle Size Distributions in the tropical Troposphere

XY0144; EGU2007-A-06574; AS3.11-1TU4P-0144

Weidle, F.; Krämer, M.; Spelten, N.; Spichtinger, P.; Wernli, H.

The Cirrus III Campaign: Comparison of Observations with Model Simulations

XY0145; EGU2007-A-06204; AS3.11-1TU4P-0145

Hasselbeck, Th.; Frisius, Th.; Herbert, F.

The effects of ice-phase microphysics on tropical cyclone formation in Lokalmodell (LM) simulations

XY0146; EGU2007-A-06828; AS3.11-1TU4P-0146

DUFOURNET, Y.; Unal, C.M.H.; Russchenberg, H.W.J

Microphysical properties of mixed-phase clouds from the analysis of spectral dual-polarization radar measurements

Biogeosciences

BG2.01 DOM biogeochemistry and ecosystem function: from soils to oceans (co-listed in OS)

Convener: Uher, G.

Co-Convener(s): Sondergaard, M., Battin, T., Tranvik, L.

Lecture Room 19

Chairperson: N.N.

8:30–8:45; EGU2007-A-04300; BG2.01-1TU1O-001
Aufdenkampe, A. K.; Mayorga, E.; Hedges, J. I.; Masiello, C. A.; Brown, T. A.; Quay, P. D.; Krusche, A. V.; Richey, J. E.

The two contrasting carbon cycles of the Amazon River system: Rapid turnover of most organic matter versus transport of refractory remains (solicited)

8:45–9:00; EGU2007-A-10936; BG2.01-1TU1O-002
McKnight, D. M.; Jaffe, R.; Miller, M.; Cory, R. M.; Maie, N.

TI: Characterizing the Quality of DOM with Spectroscopic Approaches to Monitor Response to Climate and Landuse Change

9:00–9:15; EGU2007-A-08801; BG2.01-1TU1O-003
Tranvik, L. J.

The long journey from soils to the sea - how much of the DOM will make it all the way?

9:15–9:30; EGU2007-A-00426; BG2.01-1TU1O-004
Dittmar, T.; Koch, B.; Whitehead, K.; Kattner, G.
 Biogeochemistry of dissolved organic matter in mangrove-fringed coastal environments (solicited)

9:30–9:45; EGU2007-A-08354; BG2.01-1TU1O-005
Baum, A.; Rixen, T.; Siegel, H.; Pohlmann, T.; Samiaji, J.
 Dissolved organic carbon (DOC) export from the peat draining river Siak in central Sumatra and its faith in the adjacent coastal ocean

9:45–10:00; EGU2007-A-08290; BG2.01-1TU1O-006
Miller, W.; Fichot, C.
 Examining the 10-year variability in DOM photochemistry from SeaWiFS data

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-00389; BG2.01-1TU2O-001
Kowalczyk, P.
 The decade of observations of optical properties of Chromophoric Dissolved Organic Matter in the Baltic Sea. (solicited)

10:45–11:00; EGU2007-A-03268; BG2.01-1TU2O-002
Stedmon, C.A.; Thomas, D.N.; Kaartokallio, H.; Kuosa, H.; Granskog, M.A.; Papadimitriou, S.
 The characteristics of dissolved organic matter in Baltic coastal sea ice and underlying waters: allochthonous or autochthonous origins.

11:00–11:15; EGU2007-A-02617; BG2.01-1TU2O-003
Sulzberger, B.; Laubscher, H.; Meunier, L.; Hug, S. J.
 The role of light-induced transformations of DOM for Fe(II) oxidation kinetics in aquatic systems

11:15–11:30; EGU2007-A-00498; BG2.01-1TU2O-004
Kitidis, V.; Uher, G.; Suddick, E.; Woodward, E.M.S.; Gibb, S.; Owens, N.J.P.; Upstill-Goddard, R.C.
 Ammonium photo-production in aquatic systems: synthesis and ecological significance (solicited)

11:30–11:45; EGU2007-A-06001; BG2.01-1TU2O-005
Vähätalo, A. V.; Aarnos, H.; Lignell, R.; Hoikkala, L.
 Responses of auto- and heterotrophic nanoplankton to photochemical transformation of DOM

11:45–12:00; EGU2007-A-01179; BG2.01-1TU2O-006
Sempéré, R.; Tedetti, M.; Charrière, B.; Abboudi, M.; Joux, F.; Nerini, D.; Miller, W.; Mopper, K.
 UV impact on dissolved organic matter availability in marine waters: subsequent effects for bacterial cycling (solicited)

12:00 END OF SESSION

BG2.01 DOM biogeochemistry and ecosystem function: from soils to oceans (co-listed in OS) – Posters

Convener: Uher, G.
 Co-Convener(s): Sondergaard, M., Battin, T., Tranvik, L.
 Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 13:30–15:00
 Poster Area Foyer BG
 Chairperson: N.N.

BG0001; EGU2007-A-10372; BG2.01-1TU3P-0001
Dreves, A.; Grootes, P.M.; Nadeau, M.-J.
 Dissolved organic matter (DOM): Dissolved or colloidal?

BG0002; EGU2007-A-00616; BG2.01-1TU3P-0002
Kavety, R.
 Influence of ectomycorrhiza on exudates of *Pinus sylvestris* (L.)

BG0003; EGU2007-A-04867; BG2.01-1TU3P-0003
Belyaeva, N.; Kalbitz, K.; Fiedler, S.; Kuzyakov, Y.
 Leaching and transformation of ¹⁴C labeled DOM in two soils under oxic and anoxic conditions

BG0004; EGU2007-A-02299; BG2.01-1TU3P-0004
Mueller, C.; Wiesmeier, M.; Koegel-Knabner, I.
 Enhanced bioavailability of dissolved organic matter after artificial soil aggregate disruption

BG0005; EGU2007-A-07502; BG2.01-1TU3P-0005
Petsch, S.; Schillawski, S.
 Rate, composition and biological utilization of dissolved organic matter from ancient sedimentary rocks in modern aquatic systems

BG0006; EGU2007-A-04069; BG2.01-1TU3P-0006
Hagedorn, F.; Rusch, S.; Handa, T.
 Sources and production of dissolved organic matter in alpine ecosystems

BG0007; EGU2007-A-08141; BG2.01-1TU3P-0007
Köhler, S. J.; Laudon, H.; Buffam, I.; Bishop, K.
 Temporal and spatial variation of Total Organic Carbon from a boreal catchment

BG0008; EGU2007-A-09407; BG2.01-1TU3P-0008
Kastowski, M.; Hinderer, M.; Vecsei, A.
 The Contribution of Lakes to the European Carbon Budget

BG0009; EGU2007-A-03281; BG2.01-1TU3P-0009
Martinsen, W.; Stedmon, C.A.
 The fluorescence properties of dissolved organic matter in aquatic ecosystems- a spectral database for comparison with known compounds

BG0010; EGU2007-A-03651; BG2.01-1TU3P-0010
Suratman, S.; Jickells, T.; Weston, K.; Fernand, L.
 Seasonal changes of dissolved and particulate organic C and N in the North Sea

BG0011; EGU2007-A-09355; BG2.01-1TU3P-0011
Santinelli, C.; Nannicini, L.; Seritti, A.
 Dissolved organic carbon in the Mediterranean Sea

BG0012; EGU2007-A-10132; BG2.01-1TU3P-0012
Ibello, V.; Santinelli, C.; Seritti, A.; Nannicini, L.; Civitarese, G.
 DOM stoichiometry in the Mediterranean Sea

BG0013; EGU2007-A-04759; BG2.01-1TU3P-0013
Al-Azri, A.; Al-Hashmi, K.; Ahmed, S.; Sarma, Y.V.; Al-Habsi, H.; Al-Khusaibi, S.
 Seasonal Variation of Phytoplankton Populations and Dissolved Organic Carbon (DOC) in the Coastal Waters of Oman.

BG0014; EGU2007-A-04335; BG2.01-1TU3P-0014
Mannino, A.; Russ, M.E.; Hooker, S.B.
 Satellite-derived distributions of DOC and CDOM in the U.S. Middle Atlantic Bight

BG0015; EGU2007-A-04058; BG2.01-1TU3P-0015
Morris, P.J.; Sanders, R.; Turnewitsch, R.; Thomalla, S.; Torres-Valdes, S.
 Decoupling of new and export production in iron fertilised HNLC regions: Is this due to a short-term storage of dissolved organic nitrogen in surface waters?

BG0016; EGU2007-A-01217; BG2.01-1TU3P-0016
Hashibul Islam, Md.; Mahmood, N.; Rahman Chowdhury, S.; Rahman Chowdhury, Z.
 Relation between organic matter and sediment along the coastal water of the Bay of Bengal (BOB), Bangladesh.

BG0017; EGU2007-A-04535; BG2.01-1TU3P-0017
Johnson, A.; Moran, M.; Miller, W.
 Investigating carbon monoxide (CO) consumption in the marine bacteria *Silicibacter pomeroyi* with *coxL* gene expression

BG0018; EGU2007-A-02689; BG2.01-1TU3P-0018
Aarnos, H.; Ylöstalo, P.; Vähätalo, A.
 Photodegradation of dissolved organic matter (DOM) in the Baltic Sea

BG0019; EGU2007-A-08493; BG2.01-1TU3P-0019
Mann, P.J.; Uher, G.; Upstill-Goddard, R.C.
 Relationship between photochemical ammonium production and DOM absorbance: a review and synthesis

BG2.02 Biogeochemistry of coastal seas and continental shelves (co-listed in OS)

Convener: Thomas, H.
 Co-Convener(s): Borges, A.
 Lecture Room 19
 Chairperson: THOMAS, H.

13:30–13:45; EGU2007-A-11425; BG2.02-1TU3O-001
Ittekkot, V.
 Responses of coastal biogeochemistry to global environmental changes (solicited)

13:45–14:00; EGU2007-A-00710; BG2.02-1TU3O-002
Harlay, J.; De Bodt, C.; D'Hoop, Q.; Borges, A.V.; Suykens, K.; Van Oostende, N.; Sabbe, K.; Roelvros, N.; Groom, S.; Chou, L.
 Biogeochemistry of a late marginal coccolithophorid bloom in the Bay of Biscay

14:00–14:15; EGU2007-A-01680; BG2.02-1TU3O-003
Watanabe, AW; Morimoto, AM; Takikawa, TT; Onitsuka, GO; Saino, TS
 pCO₂ distribution in the East China Sea continental shelf estimated from satellite sea surface temperature, Chla, and climatological salinity

14:15–14:30; EGU2007-A-04245; BG2.02-1TU3O-004
Borges, A.V.; Tilbrook, B.; Metzl, N.; Delille, B.
 Inter-annual variability of the carbon dioxide oceanic sink south of Tasmania

14:30–14:45; EGU2007-A-07040; BG2.02-1TU3O-005
Planquette, H.; Statham, P.J.; Fones, G.R.; Charette, M.A.
 Dissolved iron in the vicinity of the Crozet Islands, Southern Ocean

14:45–15:00; EGU2007-A-00749; BG2.02-1TU3O-006
Hendry, K.; Rickaby, R.
 Cadmium and phosphate in coastal Antarctic waters: is there a global relationship?

15:00 COFFEE BREAK

Chairperson: BORGES, A.V.

15:30–15:45; EGU2007-A-06199; BG2.02-1TU4O-001
Gypens, N.; Borges, A.V.; Schiettecatte, L.S.; Billen, G.; Lancelot, C.
 Spatial and temporal variability of the partial pressure of CO₂ (pCO₂) and air-sea CO₂ exchanges in the Southern Bight of the North Sea with a particular focus on the eutrophied Belgian coastal zone (solicited)

15:45–16:00; EGU2007-A-00770; BG2.02-1TU4O-002
 Prowe, F.; Thomas, H.; Paetsch, J.; Kuehn, W.; Bozec, Y.; Schiettecatte, L.-S.; Borges, A. V.
 Simulating the carbon cycle in a high latitude shelf sea (North Sea) - evidence for decoupled carbon and nutrient cycles

16:00–16:15; EGU2007-A-07157; BG2.02-1TU4O-003
Laruelle, G. G.; Dürr, H. H.; Van Kempen, C.; Slomp, C. P.; Middelkoop, H.; Meybeck, M.
 Modeling nitrogen and phosphorus transformations in the coastal zone at the global scale

16:15–16:30; EGU2007-A-07743; BG2.02-1TU4O-004
Gruber, N.; Frenzel, H.; Marchesiello, P.; McWilliams, JC; Nagai, T; Plattner, G-K
 On the role of eddies for coastal productivity and carbon export to the open-ocean

16:30–16:45; EGU2007-A-08864; BG2.02-1TU4O-005
 Wakelin, S; Holt, J; Proctor, R; Smyth, T; Blackford, J; Allen, I; Ashworth, M
 Modelling the inter-annual variability of carbon fluxes and budgets on the northwest European continental shelf

16:45–17:00; EGU2007-A-02513; BG2.02-1TU4O-006
Bouillon, S.; Middelburg, J.J.; Dehairs, F.; Borges, A.V.; Abril, G.; Flindt, M.R.; Ulomi, S.; Kristensen, E.
 Importance of intertidal sediment processes and porewater exchange on the water column biogeochemistry in a pristine mangrove creek (Ras Dege, Tanzania)

17:00 END OF SESSION

BG2.02 Biogeochemistry of coastal seas and continental shelves (co-listed in OS) – Posters

Convener: Thomas, H.
 Co-Convener(s): Borges, A.
 Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 10:30–12:00
 Poster Area Foyer BG
 Chairperson: BORGES, A.

BG0020; EGU2007-A-11624; BG2.02-1TU2P-0020
 Azetsu-Scott, K.; Prinsenberg, S.
 Sources and transport of freshwater and their influence on carbon dynamics in the Hudson Bay

BG0021; EGU2007-A-02409; BG2.02-1TU2P-0021

Suykens, K.; Delille, B.; Borges, A.V.

Dissolved inorganic carbon dynamics in the Gulf of Biscay (June 2006)

BG0022; EGU2007-A-03386; BG2.02-1TU2P-0022

Schiettecatte, L.-S.; Borges, A.V.

Variations of the partial pressure of carbon dioxide in the upper Scheldt estuary from 1993 to 2006

BG0023; EGU2007-A-03392; BG2.02-1TU2P-0023

Schiettecatte, L.-S.; Champenois, W.; Delille, B.; Borges, A.V.

Preliminary results of continuous oxygen measurement above a Posidonia oceanica seagrass bed in the Bay of Calvi (Corsica)

BG0024; EGU2007-A-04281; BG2.02-1TU2P-0024

Koné, Y. J.; **Borges, A.V.**

Dissolved inorganic carbon dynamics in the waters surrounding forested mangroves of the Ca Mau Province (Vietnam)

BG0025; EGU2007-A-04780; BG2.02-1TU2P-0025

Koné, Y.J.M; Delille, B.; **Borges, A.V.**

Carbon dioxide dynamics in the tropical Ebrié lagoon (Ivory coast)

BG0026; EGU2007-A-00692; BG2.02-1TU2P-0026

Kulinski, K.; Pempkowiak, J

DOC concentrations variability in the seashore zone of the Gdansk Bay, Baltic Sea

BG0027; EGU2007-A-06732; BG2.02-1TU2P-0027

Santana-Casiano, J.M.; González-Dávila, M.; Rodríguez-Ucha, I

Carbon dioxide fluxes in the Benguela region

BG0028; EGU2007-A-07734; BG2.02-1TU2P-0028

Karakas, G.; Fischer, G.; Marchesiello, P.; Schlitzer, R.

Organic carbon export in the NW African high productivity zone

BG0029; EGU2007-A-01042; BG2.02-1TU2P-0029

Semiletov, I.; Pipko, I.; Repina, I.; Shakhova, N.; Salyuk, A. Carbon dioxide fluxes across the atmosphere-ice-water interfaces in the Siberian and Alaskan shelf seas.

BG0030; EGU2007-A-01043; BG2.02-1TU2P-0030

Semiletov, I.; Dudarev, O.; Charkin, A.; Shakhova, N.; Kosmach, D.

Terrestrial organic carbon in the Arctic East Siberian land-shelf system

BG0031; EGU2007-A-06838; BG2.02-1TU2P-0031

Lukkari, K.; Leivuori, M.

Phosphorus Fractions in Sediment from a shallow Estuary to Open Sea in The Baltic Sea

BG0032; EGU2007-A-07910; BG2.02-1TU2P-0032

Deborde, J.; **Mouret, A.;** Abril, G.; Anschutz, P.; Bachelet, G.

Impact of Zostera noltii meadow cycle on iron and phosphorus dynamics in tidal mudflat (Arcachon Bay, France)

BG0033; EGU2007-A-08539; BG2.02-1TU2P-0033

Lallier-Verges, ELV.; Marchand, CM; Albéric, PA

Impact of organic matter decomposition on heavy metal distribution

BG0034; EGU2007-A-00799; BG2.02-1TU2P-0034

Fallet, U.

Seasonal particle fluxes and superimposed re-suspension events in the Mozambique Channel

BG0035; EGU2007-A-02956; BG2.02-1TU2P-0035

Balzano, S

Release of nitrite and ferrous iron from marine aggregates: anoxic nanozones?

BG0036; EGU2007-A-05174; BG2.02-1TU2P-0036

Sukigara, C.; Saino, T

Particulate transport processes from the Tokyo Bay to the Open Ocean

BG0037; EGU2007-A-03546; BG2.02-1TU2P-0037

Küster, K.; de Lange, G.J.; Slomp, C.P.; Steinmetz, E.; Zabel, M.

Phosphorus cycling in marine sediments off Namibia

BG0038; EGU2007-A-03644; BG2.02-1TU2P-0038

Ogier, S.; Baraud, F.; Mesnage, V.; Leleyter, L.; Bourdin, M.

Partitioning of reduced-S forms and stability of trace metals in anoxic sediments of a shallow eutrophic Mediterranean lagoon

BG0039; EGU2007-A-09241; BG2.02-1TU2P-0039

Vencharutti, C.; Jeandel, C; Roy-Barman, M

Particle dynamics in the wake of Kerguelen Island traced by thorium isotopes (Southern Ocean, KEOPS program)

BG0040; EGU2007-A-09888; BG2.02-1TU2P-0040

Baumgart, A.; Jennerjahn, T.; Krück, N.; Pranowo, W. S.

Stable carbon and nitrogen isotope distribution in the water column and sediments in the Indian Ocean upwelling region off Java and Sumatra, Indonesia

BG0041; EGU2007-A-03096; BG2.02-1TU2P-0041

Shumilin, E.; Rodríguez-Figueroa, G.; Sapozhnikov, D.; Choumiline, K.

Non-lithogenic (autigenic and anthropogenic) uranium enrichments in the coastal marine sediments of the central Gulf of California

BG0042; EGU2007-A-00139; BG2.02-1TU2P-0042

Mulsov, S

SPI and microelectrodes studies in Southern Chile Fjords: organic loading carrying capacity

BG0043; EGU2007-A-10689; BG2.02-1TU2P-0043

Bareille, G.; Amouroux, D; Weber, O; Jouanneau, JM; Donard, O

Geochemistry of sediment trace metals from both the urban Adour estuary and a mud-patch developed in the south part of the continental shelf of the Bay of Biscaye

BG0044; EGU2007-A-01035; BG2.02-1TU2P-0044

Deydier-Stephan, L.; Garcia-Gorrioz, E; Stips, A; Dowell, M; Schrimpf, W

Carbon and oxygen dynamics in shelf and coastal seas: a physical-biogeochemical modelling and satellite approach

BG0045; EGU2007-A-08635; BG2.02-1TU2P-0045

Lathuillière, C.; Echevin, V.; Lévy, M.

Primary production along the Northwest African coast : from satellite data to an idealized study of the coastal upwelling ecosystem

BG0046; EGU2007-A-04536; BG2.02-1TU2P-0046

Thomas, H.; The North Sea team

Rising CO2 conditions and ocean acidification - a severe threat to high latitude coastal ecosystems

BG6.03 Ecosystems of the deep sea-floor and their geological drivers (co-listed in SSP, OS & CL) – Posters

Convener: Weaver, P.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 10:30–12:00

Poster Area Foyer BG

Chairperson: N.N.

BG0047; EGU2007-A-03415; BG6.03-1TU2P-0047

Dorschel, B.; Wheeler, A.; De Haas, H.; Huvenne, V.; Monteys, X.

Sedimentary processes on the north-west Porcupine Bank: cold-water coral carbonate mounds, erosional scarps and canyons

BG0048; EGU2007-A-08811; BG6.03-1TU2P-0048

Van Rooij, D.; Huvenne, V.; Le Guilloux, E.; Foubert, A.; Wheeler, A.; Staelens, P.; Henriët, J.-P.

Deep-water oyster cliffs at La Chapelle Bank (Celtic Margin)

BG0049; EGU2007-A-08988; BG6.03-1TU2P-0049

Van Rooij, D.; Ingels, J.; De Mol, L.

A tale of two "canyon" systems; Gollum & Whittard

BG0050; EGU2007-A-07923; BG6.03-1TU2P-0050

Pirlet, H.; Foubert, A.; Frank, N.; Blamart, D.; Henriët, J.-P.
A comparative study of the recent history of Thérèse and Challenger mound, two cold-water coral carbonate mounds in the Belgica Mound province, Porcupine Seabight, SW of Ireland

BG0051; EGU2007-A-03051; BG6.03-1TU2P-0051

Arzola, R.; Wynn, R.; Pattenden, A.; Weaver, P.; Masson, D.
Landslides and gravity flows in submarine canyons off west Iberia: what are the effects on the benthic ecosystems?

BG0052; EGU2007-A-08931; BG6.03-1TU2P-0052

Koho, K.A.; Kouwenhoven, T.J.; de Stigter, H.C.; Garcia, R.; Epping, E.; Koning, E.; van Weering, T.C.E.; van der Zwaan, G.J.

An ecological study of live (rose Bengal stained) benthic foraminifera from the Portuguese margin canyons

BG0053; EGU2007-A-08741; BG6.03-1TU2P-0053

Akhmetzhanov, A.; Ivanov, M.; Masson, D.; Berndt, C.; Pinheiro, L.

Gulf of Cadiz mud volcanoes: ROV-ready sites

BG0054; EGU2007-A-03416; BG6.03-1TU2P-0054

Vangriesheim, A.; Khrpounoff, A.; **Mas, V.**

Current and turbiditic events observed in the VAR Canyon.

BG0055; EGU2007-A-09523; BG6.03-1TU2P-0055

Pusceddu, A.; Dell'Anno, A.; Gambi, C.; Zeppilli, D.; **Langone, L.;** Miserocchi, S.; Danovaro, R.

Impact of landslides on benthic biodiversity in the Gela Basin (Sicily Channel, Mediterranean Sea)

BG0056; EGU2007-A-08247; BG6.03-1TU2P-0056

Turchetto, M.; **Langone, L.;** Miserocchi, S.; Boldrin, A.; Goñi, M.A.; Tesi, T.

Nature and source of the organic matter collected by sediment traps in the Bari canyon (southern Adriatic Sea)

BG0057; EGU2007-A-03797; BG6.03-1TU2P-0057

Wetzel, A.

Ecological conditions in the deep South China Sea recorded by biogenic sedimentary structures: effects of upwelling, ash fall, and turbidite deposition

BG0058; EGU2007-A-06938; BG6.03-1TU2P-0058

Puschell, A.; Harder, J.; Widdel, F.

Cell enumeration in low activity sub-seafloor sediments of the South Pacific gyre

BG0059; EGU2007-A-11053; BG6.03-1TU2P-0059

Rüggeberg, A.; Fietzke, J.; Liebetrau, V.; Eisenhauer, A.; Dullo, C.; Freiwald, A.

First stable strontium isotopes (d88/86Sr) from cold-water corals – new proxy for intermediate water temperatures

BG0060; EGU2007-A-10268; BG6.03-1TU2P-0060

Marinakis, D.; Varotsis, N.

Natural gas hydrates in deep sea sediments: The effect of the host formation on pore pressure and on hydrate characteristics.

BG0061; EGU2007-A-09783; BG6.03-1TU2P-0061

Jonckheere, I.

Ecosystem Functioning and Biodiversity in the Deep Sea: the EuroDEEP Programme

BG0072; EGU2007-A-11617; BG6.03-1TU2P-0072

Wheeler, A.J.; Ferdelman, T.; Freiwald, A.; Hebbeln, D.; Henriët, J.P.; Kano, A.; Swennen, R.; Van Weering, T.C.E.; Williams, T.; Dorschel, B.

Cold-Water Coral Ecosystem Functioning through Time in the Deep Sea: The example of cold-water coral carbonate mounds in the northeast Atlantic (from IODP307 to Euro-MARC - CARBONATE)

BG6.06/NP6.09 Coupling biogeochemistry and ecology to fluid dynamics in aquatic ecosystems (co-organized by NP) (co-listed in OS) – Posters

Convener: Berdalet, E.

Co-Convener(s): Battin, T., Clercx, H., Piera, J., Richards, K., Seuront, L.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 15:30–17:00

Poster Area Foyer BG

Chairperson: SEURONT, L.

BG0062; EGU2007-A-06418; BG6.06/NP6.09-1TU4P-0062

Schapira, M.; **Seuront, L.**

Role of turbulent history on phytoplankton nutrient uptake

BG0064; EGU2007-A-08334; BG6.06/NP6.09-1TU4P-0064

Peters, F.; Guadayol, O.; Marras, C.; **Berdalet, E.;** The NTAP Team
Experimental simulation of nutrient enrichment and turbulence in coastal systems.

BG0065; EGU2007-A-06208; BG6.06/NP6.09-1TU4P-0065

Berdalet, E.; Latasa, M.; Estrada, M.; Jansá, J.; Salat, J.; Roldán, C.; Grün, C.; Gasol, J. M.

Biochemical characterization of the physiological state of the microplankton communities during the stratification and spring bloom periods in the NW Mediterranean

BG0066; EGU2007-A-06827; BG6.06/NP6.09-1TU4P-0066

Popova, E.; Srokosz, M

Modelling the ecosystem dynamics at the Iceland-Faeroes Front: the effect of vertical advection and diffusion on nutrient supply to the euphotic zone

BG0067; EGU2007-A-08031; BG6.06/NP6.09-1TU4P-0067

Chlebus, N.; Matciak, M

Numerical simulations of the local circulation at the border between water masses with different absorption capabilities (cancelled)

BG0068; EGU2007-A-10633; BG6.06/NP6.09-1TU4P-0068

Losa, S. N.; Schroeter, J.; Wright, D.

Estimating primary production in the North Atlantic

BG0069; EGU2007-A-09004; BG6.06/NP6.09-1TU4P-0069
van der Molen, J.; Bolding, K.; Greenwood, N.; Mills, D.K.
 Under-water light regime and SPM: a multiple-grain size model and observations from SmartBuoy

BG0070; EGU2007-A-08885; BG6.06/NP6.09-1TU4P-0070
Marani, M.; D'Alpaos, A.; Lanzoni, S.; Rinaldo, A.
 Multiple equilibria in tidal eco-geomorphology

BG0071; EGU2007-A-11143; BG6.06/NP6.09-1TU4P-0071
Moulin, F.Y.; Mülleners, K.; Bourg, C.; Thouzeau, G.
 Impact of a typical invasive species, *Crepidula fornicata* L., on the hydrodynamic and transport properties of the benthic boundary layer

Climate: Past, Present, Future

CL21 Generality of Climate Models and their Components (co-listed in AS & NP)

Convener: Arritt, R.
 Co-Convener(s): Rockel, B., Williamson, D.
 Lecture Room 14
 Chairperson: N.N.

13:30–13:45; EGU2007-A-09288; CL21-1TU3O-001
Kothavala, Z.; Jones, C.; Zadra, A.; Paquin, D.; Rockel, B.; Roads, J.
 Assessing the transferability of Regional Climate Models

13:45–14:00; EGU2007-A-05541; CL21-1TU3O-002
Gutowski, W.; Roads, J.; Rockel, B.; Arritt, R.; Geyer, B.; Jones, C.; Meinke, I.; Paquin, D.; Takle, E.; Willen, U.
 Transferability assessment of regional climate models: Extremes

14:00–14:15; EGU2007-A-04600; CL21-1TU3O-003
Bacmeister, J.; Pegion, P.; Schubert, S.; Suarez, M.; Tassone, C.
 Explicitly resolved mesoscale motions in high resolution global simulations

14:15–14:30; EGU2007-A-01296; CL21-1TU3O-004
Williams, K. D.; Tselioudis, G.
 Evaluation of global cloud regimes in contemporary GCMs

14:30–14:45; EGU2007-A-10431; CL21-1TU3O-005
Jones, C.
 Representing tropical deep convection in high-resolution climate models

14:45–15:00; EGU2007-A-08616; CL21-1TU3O-006
Stainforth, D.A.; Downing, T.; Lopez, A.; New, M.; Washington, R.
 Climate Envelopes: Extracting Useful Information from Climate Ensembles

15:00 END OF SESSION

CL21 Generality of Climate Models and their Components (co-listed in AS & NP) – Posters

Convener: Arritt, R.
 Co-Convener(s): Rockel, B., Williamson, D.
 Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0147; EGU2007-A-01297; CL21-1TU5P-0147
Williams, K. D.; Brooks, M. E.
 Cloud regime spin-up in the Met Office Unified Model

XY0148; EGU2007-A-03555; CL21-1TU5P-0148
Rockel, B.; Geyer, B.; Arritt, W.; Gutowski Jr., J.; Jones, C.G.; Meinke, I.; Paquin, D.; Roads, J.; Takle, E.S.; Willen, U.
 Latest results from the Inter-Continental Transferability Study (ICTS)

XY0149; EGU2007-A-06019; CL21-1TU5P-0149
Winter, J.
 Coupling of Integrated Biosphere Simulator to Regional Climate Model version 3

XY0150; EGU2007-A-07582; CL21-1TU5P-0150
Farda, A.; Skalak, P.; Stepanek, P.
 Regional climate model ALADIN/Prague tested on ECMWF ERA-40 reanalysis in variable resolution

XY0151; EGU2007-A-09245; CL21-1TU5P-0151
Hadjinicolaou, P.; Zanis, P.; Douvis, K.; Zerefos, C.; Philandras, C.; Repapis, C.
 Dynamical downscaling of the present climate over Greece using the PRECIS and RegCM3 Regional Climate Models

XY0152; EGU2007-A-10359; CL21-1TU5P-0152
Arritt, R.
 Relative sensitivity to moist physics in regional climates

XY0153; EGU2007-A-06382; CL21-1TU5P-0153
Winterfeldt, J.; Weisse, R.
 Is there an added value for marine wind fields derived from regional atmospheric models?

XY0154; EGU2007-A-05144; CL21-1TU5P-0154
Nanjundiah, R S.; Srinivasan, J.; Vidyunamala, V.
 Errors in the simulation of Indian and African Monsoon rainfall in IPCC AR4 simulations of the 20th Century Climate in coupled models and atmospheric GCM

XY0155; EGU2007-A-02085; CL21-1TU5P-0155
Flores-Márquez, E. L.; Ramirez-Rojas, A.
 Nonlinearity dependence between the Dimethylsulphide and the Total Solar Irradiance.

CL22/CL35 Land-atmosphere coupling in past, present and future climate (co-listed in AS, BG & HS) / Subsurface temperature signals of climate change, processes involved, and importance to climate modeling

Convener: Seneviratne, S.
 Co-Convener(s): van den Hurk, B., Rath, V., Safanda, J., Gonzalez-Rouco, J.
 Lecture Room 25
 Chairperson: SENEVIRATNE, S.I.

Vegetation-Climate Interactions

13:30–14:00; EGU2007-A-03278; CL22/CL35-1TU3O-002
Ciais, P.; Reichstein, M.; Le Maire, G.; Jung, M.; Papale, D.; Vetter, M.; Knohl, A.; Viovy, N.; Valentini, R.; Heimann, M.
 Impact of drought on European ecosystem carbon and water balance (solicited)

14:00–14:15; EGU2007-A-02529; CL22/CL35-1TU3O-003
Wolf, A.; Bugmann, H.
 Modelling Species Effects on Carbon and Water Cycle Feedbacks in Mountain Catchments

14:15–14:30; EGU2007-A-02677; CL22/CL35-1TU30-004

Douville, H.

West African monsoon variability: a meaningful illustration of the role of land-atmosphere coupling on interannual variability

14:30–14:45; EGU2007-A-01758; CL22/CL35-1TU30-005

Dekker, S.C.; Rietkerk, M.; Bierkens, M.F.P

Synergy between microscale vegetation-soil water and macroscale vegetation-precipitation feedbacks in semi-arid ecosystems

14:45–15:00; EGU2007-A-02088; CL22/CL35-1TU30-006

Makariev, A.M.; Gorshkov, V.G.

Biotic pump of atmospheric moisture as driver of the hydrological cycle on land (solicited)

15:00 COFFEE BREAK

Chairperson: VAN DEN HURK, B.J.J.M

Soil Moisture Impacts on Precipitation and Temperature

15:30–15:45; EGU2007-A-09339; CL22/CL35-1TU40-002

Lawrence, D.M.

The diurnal cycle, convection, and the soil moisture – precipitation feedback

15:45–16:00; EGU2007-A-02157; CL22/CL35-1TU40-003

Alfieri, L.; Claps, P.; D’Odorico, P.; Laio, F.; Over, T. M.

Evaluating the soil moisture feedback on convective and stratiform precipitation

16:00–16:15; EGU2007-A-06475; CL22/CL35-1TU40-004

Fischer, E.M.; Seneviratne, S.I.; Lüthi, D.; Schär, C.

The contribution of land-atmosphere feedbacks to recent European summer heatwaves

Subsurface Temperature Signals

16:15–16:30; EGU2007-A-11483; CL22/CL35-1TU40-006

Beltrami, H.; Gonzalez-Rouco, J. F.; Smerdon, J. E.; Zorita, E.; Stevens, M. B.; Stieglitz, M.; von Storch, H.

Climate from underground temperatures: The Earth’s Selective Long-Term Memory (solicited)

16:30–16:45; EGU2007-A-03175; CL22/CL35-1TU40-007

Kukkonen, I.T.; Safanda, J.; Cermak, V.; Kivekäs, L.

Geothermal studies and palaeoclimatic implications of the 2.5 km deep Outokumpu deep drill hole, Finland

16:45–17:00; EGU2007-A-10278; CL22/CL35-1TU40-008

Noetzli, J.; Gruber, S.; Kohl, T.

Depth scales of transient effects and their influence on current permafrost temperatures in alpine topography

17:00 END OF SESSION

CL22/CL35 Land-atmosphere coupling in past, present and future climate (co-listed in AS, BG & HS) / Subsurface temperature signals of climate change, processes involved, and importance to climate modeling – Posters

Convener: Seneviratne, S.

Co-Convener(s): van den Hurk, B., Rath, V., Safanda, J., Gonzalez-Rouco, J.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0156; EGU2007-A-03697; CL22/CL35-1TU5P-0156

Stöckli, R.; Baker, I.; Bonan, G. B.; Best, M.; Denning, A. S.; Lawrence, D. M.; Oleson, K. W.; Running, S. W.; Thornton, P. E.; Vidale, P. L.

How observational networks can help to improve modeled water and carbon exchange processes for climatological applications.

XY0157; EGU2007-A-10025; CL22/CL35-1TU5P-0157

Phillips, T.; Boyle, J.; Hnilo, J.; Klein, S.; Potter, G.; Xie, S.

Using high-frequency ARM observations to evaluate land-atmosphere interactions in climate models

XY0158; EGU2007-A-03100; CL22/CL35-1TU5P-0158

Santanello Jr., J.; Peters-Lidard, C.; Kumar, S.; Geiger, J.

A Modeling and Observational Framework for Diagnosing Local Land-Atmosphere Coupling on Diurnal Time Scales

XY0159; EGU2007-A-06051; CL22/CL35-1TU5P-0159

Jaeger, E. B.; Seneviratne, S. I.; Lüthi, D.

Validation of CLM regional climate simulations with European Fluxnet observations

XY0160; EGU2007-A-01657; CL22/CL35-1TU5P-0160

Ngo-Duc, T.; Laval, K.; Ramillien, G.; Polcher, J.; Cazenave, A.

Validation of the land water storage simulated by ORCHIDEE with the GRACE data

XY0161; EGU2007-A-03968; CL22/CL35-1TU5P-0161

Alessandri, A.; Gualdi, S.; Polcher, J.; Navarra, A.

Effects of Land-Surface-Vegetation on the boreal summer surface climate of a GCM

XY0162; EGU2007-A-02861; CL22/CL35-1TU5P-0162

Gibelin, A.-L.; Calvet, J.-C.; Viovy, N.

ISBA-CC: a new land surface model simulating the terrestrial carbon cycle

XY0163; EGU2007-A-05604; CL22/CL35-1TU5P-0163

Verstraeten, W.W.; Veroustraete, F.; Coppin, P.R.; Feyen, J.

The effect of soil moisture on the ratio of anthropogenic carbon emission to carbon sequestration determined with remote sensing

XY0164; EGU2007-A-00759; CL22/CL35-1TU5P-0164

Chmura, L.; Korus, A.; Necki, J.; Rozanski, K.; Zimnoch, M.

Temporal variability of atmospheric CO₂ mixing ratios at Kasprowy Wierch, southern Poland

XY0165; EGU2007-A-07715; CL22/CL35-1TU5P-0165

Szopa, S.; Viovy, N.; Friedlingstein, P.; Hauglustaine, D.; Lathière, J.; Ciais, P.

Impact of future ozone on the terrestrial biosphere: comparisons with the effects of climate change and CO₂ increase

XY0166; EGU2007-A-05585; CL22/CL35-1TU5P-0166

Ellis, R. J.; Taylor, C. M.; Vidale, P. L.

The sensitivity of global soil moisture distribution to soil and vegetation parameters

XY0167; EGU2007-A-07366; CL22/CL35-1TU5P-0167

Anders, I.; Rockel, B.; Geyer, B.

Comparative analysis of CLM simulations using different soil information

XY0168; EGU2007-A-03494; CL22/CL35-1TU5P-0168
Osborne, T.

Investigating coupled crop-climate interactions using a crop-climate model.

XY0169; EGU2007-A-07561; CL22/CL35-1TU5P-0169

Hughes, J.K.; Valdes, P.J.; Betts, R.

A dynamical systems approach to land-atmosphere coupling.

XY0170; EGU2007-A-07777; CL22/CL35-1TU5P-0170

Jacob, D.; Enke, W.; Goettel, H.; Kreienkamp, F.; Lorenz, P.
Soil-moisture temperature feedbacks in dynamical and statistical downscaling

XY0171; EGU2007-A-10655; CL22/CL35-1TU5P-0171

Seneviratne, S.I.; Lüthi, D.; Litschi, M.; Schär, C.; van den Hurk, BJJM

Investigating the role of soil moisture-atmosphere coupling for temperature and precipitation variability in Europe

XY0172; EGU2007-A-01777; CL22/CL35-1TU5P-0172

Van den Hurk, BJJM; Seneviratne, S

Impact of soil moisture variability on circulation in Western Europe

XY0173; EGU2007-A-05019; CL22/CL35-1TU5P-0173

Sanchez, E.; Yagüe, C.; Gaertner, M. A.

Regional climatic simulation of boundary layer energetics over Europe for present-day and future climate conditions

XY0174; EGU2007-A-05080; CL22/CL35-1TU5P-0174

Molod, A.; Salmun, H.; Entekhabi, D.

A land surface - boundary layer feedback mechanism in a GCM simulation

XY0175; EGU2007-A-04249; CL22/CL35-1TU5P-0175

Bisselink, B.; Dolman, A.J.

Precipitation recycling: Moisture sources over Europe

XY0176; EGU2007-A-03722; CL22/CL35-1TU5P-0176

Dalu, G.A.; Baldi, M.

Impact of landscape variability on atmospheric flows – Theory

XY0177; EGU2007-A-03803; CL22/CL35-1TU5P-0177

Meissner, C.; Schädler, G.; Kottmeier, C.

The impact of soil moisture initialisation on regional climate simulations

XY0178; EGU2007-A-11396; CL22/CL35-1TU5P-0178

Music, B.; Caya, D.

Sensitivity of the hydrological cycle to physical parameterizations in the Canadian Regional Climate Model

XY0179; EGU2007-A-10560; CL22/CL35-1TU5P-0179

Bogaart, P.W.; Teuling, A.J.; Troch, P.A.

A state-dependent parameterization for root-zone – ground-water coupling

XY0180; EGU2007-A-09251; CL22/CL35-1TU5P-0180

Bense, V.; Beltrami, H.

The impact of horizontal groundwater flow and localized deforestation on the development of shallow temperature anomalies

XY0181; EGU2007-A-08113; CL22/CL35-1TU5P-0181

Stevens, M.B.; Smerdon, J.E.; Gonzalez-Rouco, J.F.; Stieglitz, M.; Beltrami, H.

The effects of bottom boundary on subsurface heat storage in climate model simulations

XY0182; EGU2007-A-07849; CL22/CL35-1TU5P-0182

Stevens, M.B.; Gonzalez-Rouco, J.F.; Beltrami, H.

North American climate of the last millennium: Model and observation

XY0183; EGU2007-A-05557; CL22/CL35-1TU5P-0183

Jacobsen, B.H.; Rath, V.

Tuning a multiscale prior with generalized cross validation for piecewise constant paleotemperature

XY0184; EGU2007-A-02019; CL22/CL35-1TU5P-0184

Mottaghy, D.; Rath, V.

Paleoclimate from the surroundings of the Kola deep drilling site: influences of topography and fluid flow?

XY0185; EGU2007-A-02771; CL22/CL35-1TU5P-0185

Demetrescu, C.; Nitoiu, D.; Tumanian, M.; Dobrica, V.; Boroneant, C.; Marica, A.; Lucaschi, B.

Surface temperature variations and their frequency-dependent subsurface effects on the Romanian territory

XY0186; EGU2007-A-04310; CL22/CL35-1TU5P-0186

Dedecek, P.; Safanda, J.; Rajver, D.

Thermal signature of anthropogenic structures on the subsurface temperature field – examples from Slovenia and the Czech Republic

XY0187; EGU2007-A-09114; CL22/CL35-1TU5P-0187

Hopcroft, P.O.; Gallagher, K.L.; Pain, C.C.

Inferring ground surface temperature histories from underground data using Reversible Jump MCMC methodology

CL23 Surface Radiation Budget, Radiative Forcings and Climate Change (co-listed in AS)

Convener: Wild, M.

Co-Convener(s): Philipona, R.

Lecture Room 14

Chairperson: N.N.

8:30–8:45; EGU2007-A-02071; CL23-1TU10-001

Palle, E.

How variable is the Earth's albedo? (solicited)

8:45–9:00; EGU2007-A-04947; CL23-1TU10-002

Long, C.; Barnard, J.; Gaustad, K.; Turner, D.; Ackerman, T.
Determination of Cloud Properties and the Complete Net Surface Radiative Cloud Forcing from Surface Radiation Measurements (solicited)

9:00–9:15; EGU2007-A-09349; CL23-1TU10-003

Wild, M.

New aspects on global dimming and brightening

9:15–9:30; EGU2007-A-00381; CL23-1TU10-004

Kishcha, P.; Starobinets, B.; Alpert, P.

Latitudinal variations of cloud and aerosol optical thickness trends based on MODIS satellite data

9:30–9:45; EGU2007-A-06032; CL23-1TU10-005

Myhre, G.; Kvalevåg, M.M.

Human impact on direct and diffuse solar radiation during the industrial era

9:45–10:00; EGU2007-A-09766; CL23-1TU10-006

Philipona, R.; Ruckstuhl, C.; Nyeki, S.; Weller, M.; Mätzler, C.; Vuilleumier, L.

Solar brightening – a consequence of strong aerosol decline – and the rapid temperature rise in Europe

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-04653; CL23-1TU20-001

Hinkelman, L. M.; Wielicki, B. A.; Stackhouse Jr., P. W.; Zhang, T.; Weatherhead, E. C.

Long-term trends in the surface radiation budget from satellite and ground measurements (solicited)

10:45–11:00; EGU2007-A-06365; CL23-1TU2O-002
Pinker, R.; Ma, Y.; Liu, H.; Zhang, B.
 Solar Radiation from Space: Focus on Sources of Variability between Model Estimates (solicited)

11:00–11:15; EGU2007-A-05841; CL23-1TU2O-003
Dong, X.; Wielicki, B.; Xi, B.; Hu, Y.; Mace, G.G.; Benson, S.; Rose, F.; Kato, S.; Charlock, T.; Minnis, P.
 Using observations of deep convective systems to constrain atmospheric column absorption of solar radiation in the optically thick limit

11:15–11:30; EGU2007-A-01329; CL23-1TU2O-004
Evan, A.; Bennington, V.; Bennartz, R.; Corrada-Bravo, H.; Heidinger, A.; Mahowald, N.; Velden, C.
 Analyzing the variability of Atlantic sea surface temperature through the short-wave radiative forcing of aerosols

11:30–11:45; EGU2007-A-08627; CL23-1TU2O-005
Matsoukas, C.; Hatzianastassiou, N.; Vardavas, I.
 Multiyear Global Analysis of the Aerosol Direct Radiative Effect from Satellite TOMS Data

11:45–12:00; EGU2007-A-08053; CL23-1TU2O-006
Hollmann, R.; Mueller, R.W.
 Inter-comparison of CMSAF surface radiation budget data with GEWEX SRB

12:00 END OF SESSION

CL23 Surface Radiation Budget, Radiative Forcings and Climate Change (co-listed in AS) – Posters

Convener: Wild, M.
 Co-Convener(s): Philipona, R.
 Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: WILD, M. / PHILIPONA, R.

XY0188; EGU2007-A-01586; CL23-1TU5P-0188
Russak, V.; Ohvril, H.; Teral, H.
 Multi-annual changes in columnar aerosol optical thickness in Estonia

XY0189; EGU2007-A-01902; CL23-1TU5P-0189
Wild, M.; Ohmura, A.; Makowski, K.
 Impact of global dimming and brightening on global warming

XY0190; EGU2007-A-01959; CL23-1TU5P-0190
Wild, M.; Ohmura, A.
 The greenhouse effect as seen in the downwelling longwave radiation: GCM projections and observations

XY0191; EGU2007-A-02886; CL23-1TU5P-0191
 Norris, J.; Wild, M.
 Solar dimming and brightening over Europe in observations and AR4 global climate models

XY0192; EGU2007-A-03315; CL23-1TU5P-0192
 Norris, J.; Wild, M.
 Effect of cloud cover changes on solar dimming/brightening at worldwide GEBA sites

XY0193; EGU2007-A-10049; CL23-1TU5P-0193
Makowski, K.; Wild, M.; Ohmura, A.
 Eliminating the advective influence on the daily temperature range using an approach developed by Julius von Hann

XY0194; EGU2007-A-10138; CL23-1TU5P-0194
Makowski, K.; Wild, M.; Ohmura, A.
 Impact of greenhouse effect and global radiation on diurnal temperature range between 1950 and 2000

XY0195; EGU2007-A-10150; CL23-1TU5P-0195
AMPAS, V.; Baltas, E.; Papamichail, D.
 Sensitivity analysis of diurnal global solar radiation to meteorological parameters

XY0196; EGU2007-A-10464; CL23-1TU5P-0196
Behrens, K.
 Did “dimmed” Global Radiation occur in Central Europe already 100 years ago?

XY0197; EGU2007-A-03913; CL23-1TU5P-0197
Ruckstuhl, C.; Philipona, R.; Zelenka, A.; Moesch, M.
 Solar irradiance changes in Switzerland since 1981

XY0198; EGU2007-A-09636; CL23-1TU5P-0198
Philipona, R.; Ruckstuhl, C.
 Solar- and greenhouse radiative forcings and the rapid temperature rise in Europe during the last two decades

XY0199; EGU2007-A-06234; CL23-1TU5P-0199
 Viúdez, A.; **Calbó, J.;** González, J.-A.
 Cloudless sky downwelling longwave radiation estimations and comparison with measurements at Girona, Spain

XY0200; EGU2007-A-03310; CL23-1TU5P-0200
 Sanchez-Lorenzo, A.; **Calbó, J.;** Martin-Vide, J.
 Time evolution and trends of sunshine duration over the western part of Europe

XY0201; EGU2007-A-03837; CL23-1TU5P-0201
Ponater, M.; Raith, S.
 The relevance of radiative forcings at the surface and the top of the troposphere for the surface temperature response

XY0202; EGU2007-A-03323; CL23-1TU5P-0202
 Gröbner, J.; **Los, A.**
 Calibration of Pygeometers: the Influence of the Spectral Sensitivity

XY0203; EGU2007-A-02076; CL23-1TU5P-0203
Alpert, P.; Kishcha, P.
 Global dimming or regional dimming - anthropogenic effects on solar insolation

XY0204; EGU2007-A-01377; CL23-1TU5P-0204
Pfister, G.G.; Hess, P.G.; Emmons, L.K.; Rasch, P.J.
 TOA Radiative Forcing of the Alaska Wildfires in Summer 2004

XY0205; EGU2007-A-04589; CL23-1TU5P-0205
Gupta, S.; Stackhouse, P.; Cox, S.; Mikovitz, C.; Zhang, T.; Hinkelman, L.
 The NASA/GEWEX surface radiation budget dataset

XY0206; EGU2007-A-04823; CL23-1TU5P-0206
Wagner, T.; Beirle, S.; Grzegorski, M.; Platt, U.
 Global patterns of the temperature dependence of cloud cover and humidity derived from satellite observations

XY0207; EGU2007-A-06063; CL23-1TU5P-0207
 Fomin, B.; **Ginzburg, A.;** Romanov, S.
 Equilibrium Global Warming Potential and temperature changes calculated by radiative convective model

XY0208; EGU2007-A-06417; CL23-1TU5P-0208
 Wonsick, M.; **Pinker, R. T.;** Liu, H.
 Investigation of the “Elevated Heat Pump” Effect on the Asian Summer Monsoon using Cloud Observations from METEOSAT-5

XY0209; EGU2007-A-06544; CL23-1TU5P-0209
Wang, H.; Pinker, R. T.
 Surface Downward Short-Wave Fluxes Estimated from MODIS Level-2 Swath Products

XY0210; EGU2007-A-07629; CL23-1TU5P-0210
Mercado, L.; Alton, P.; Cox, P.; Huntingford, C.; North, P.
 Modelling the impact of diffuse light changes on the land carbon sink

XY0211; EGU2007-A-11714; CL23-1TU5P-0211
 Evan, A.T.; Heidinger, A.K.; Vimont, D.J.
 Arguments against a physical long-term trend in global ISCCP cloud amounts

CL26 Past, Present and Future Changes in Ocean Circulation: Data and Models (co-listed in OS)

Convener: Rahmstorf, S.
 Co-Convener(s): Marchal, O.
 Lecture Room 13 (F1)
 Chairperson: N.N.

15:30–15:45; EGU2007-A-03836; CL26-1TU4O-001
Boessenkool, K.P.; Hall, I.R.; Elderfield, H.; Yashayaev, I.
 North Atlantic Climate and deep-ocean Flow during the last 230 Years

15:45–16:00; EGU2007-A-07979; CL26-1TU4O-002
Weber, S.L.
 Stability and restoring timescales of the glacial Atlantic MOC

16:00–16:15; EGU2007-A-09153; CL26-1TU4O-003
 Essellami, L.; Sicre, M.-A.; **Kallel, N.;** Labeyrie, L.; Siani, G.; Kageyama, M.
 Hydrological changes in the Mediterranean Sea during the LGM and Heinrich events

16:15–16:30; EGU2007-A-08351; CL26-1TU4O-004
Hirschi, J.; Lynch-Stieglitz, J.
 Ocean margin densities and paleoestimates of the Atlantic meridional overturning circulation

16:30–16:45; EGU2007-A-10356; CL26-1TU4O-005
Lembke-Jene, L.; Tiedemann, R.; Nürnberg, D.
 The Okhotsk Sea - Changes in Intermediate Water ventilation during the last 25,000 years

16:45–17:00; EGU2007-A-00708; CL26-1TU4O-006
Ritz, S.; Stocker, T. F.; Müller, S. A.
 Response of Carbon-14 in atmosphere and ocean to changes of the Atlantic meridional overturning circulation

17:00 END OF SESSION

CL26 Past, Present and Future Changes in Ocean Circulation: Data and Models (co-listed in OS) – Posters

Convener: Rahmstorf, S.
 Co-Convener(s): Marchal, O.
 Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0212; EGU2007-A-01633; CL26-1TU5P-0212
Swingedouw, D.; Braconnot, P.; Delecluse, P.; Guilyardi, E.; Marti, O.
 Land-ice melting causes strong multi-century slowdown of Atlantic circulation even under 2xCO₂ stabilisation

XY0213; EGU2007-A-02056; CL26-1TU5P-0213
Kim, J.H.; Meggers, H.; Rimbu, N.; Lohmann, G.; Freudenthal, T.; Müller, P.; Schneider, R.R.
 Impacts of the North Atlantic gyre circulation on Holocene climate off Northwest Africa

XY0214; EGU2007-A-03290; CL26-1TU5P-0214
Alharmoud, B.; Meijer, P.; Béranger, K.; Tüenter, E.
 A simulation of the precession-minimum and present-day Mediterranean thermohaline circulation.

XY0215; EGU2007-A-04715; CL26-1TU5P-0215
Gyllencreutz, R.; Kissel, C.
 Lateglacial and Holocene sediment sources and transport patterns in the Skagerrak interpreted from high-resolution magnetic properties and grain size data

XY0216; EGU2007-A-04732; CL26-1TU5P-0216
Gyllencreutz, R.; Backman, J.; Jakobsson, M.; Kissel, C.; Arnold, E.
 Time-slice maps of postglacial palaeoceanography in the Skagerrak

XY0217; EGU2007-A-05092; CL26-1TU5P-0217
Herguera, J. C.; Kashgarian, M.; Herbert, T.; Charles, C.
 Circulation patterns and ventilation variability from thermocline waters in the Northeast Pacific: Records for the last 25 Ka

XY0218; EGU2007-A-05868; CL26-1TU5P-0218
Uchida, M.; Ohkushi, K.; Kimoto, K.; Shibata, Y.
 Mid to deep-depth ocean circulation in the western North Pacific during the last glacial maximum- deglacial transition period: evidence from foraminiferal radiocarbon age

XY0219; EGU2007-A-06448; CL26-1TU5P-0219
van der Waluw, E.; Drijfhout, S. S.; Weber, S. L.
 Is the stability of the Atlantic MOC changed by global warming?

XY0220; EGU2007-A-08295; CL26-1TU5P-0220
 Caltabiano, A. C.; **Boscolo, R.**
 CLIVAR Ocean Observation and Synthesis Efforts

XY0221; EGU2007-A-09221; CL26-1TU5P-0221
Laepple, T.; Kubatzki, C.; McVicar, A.; Lohmann, G.
 The atmospheric response to North Atlantic freshwater forcing

XY0222; EGU2007-A-09814; CL26-1TU5P-0222
 Gourelan, A.T.; Meynadier, L.; Allegre, C.J.
 The Mid-Miocene equatorial Oceanic Jet in the Indian Ocean studied by high resolution Nd isotope stratigraphy

XY0223; EGU2007-A-09816; CL26-1TU5P-0223
HAWKINS, E.; SUTTON, R.
 Applications of 3d EOFs to multi-decadal variability and predictability of the Atlantic thermohaline circulation

XY0224; EGU2007-A-10035; CL26-1TU5P-0224
Lenton, T. M.; Marsh, R.; Price, A. R.; Lunt, D. J.
 The role of ocean and atmosphere feedbacks in maintaining bi-stability of the thermohaline circulation

XY0225; EGU2007-A-10173; CL26-1TU5P-0225
Ortega, P.; Montoya, M.; González-Rouco, J.F.
 The variability of the North Atlantic deep water formation and the Atlantic meridional overturning circulation during the last millennium

XY0226; EGU2007-A-10403; CL26-1TU5P-0226
Sarnthein, M.; Grootes, P.M.
 C14 record of the North Atlantic – North Pacific seesaw in MOC during early deglacial times (cancelled)

XY0227; EGU2007-A-10806; CL26-1TU5P-0227
Wood, R.; Vellinga, M.; Bigginton, M.; Lowe, J.; Par-daens, A.; Rodriguez, J.
 Towards a traceable model hierarchy to assess the stability of the MOC

CL28 Climate of the last millennium: reconstructions, analyses and explanation of regional and seasonal changes (including Hans Oeschger Medal Lecture)

Convener: Jones, P.
Co-Convener(s): Mann, M., Jouzel, J., Dullo, W.
Lecture Room 13 (F1)
Chairperson: N.N.

8:30–8:45; EGU2007-A-01063; CL28-1TU1O-001
García-Herrera, R.; Díaz, H.F.; García, R.R.; Prieto, M.R.; Barriopedro, D.; Moyano, R.; Hernández, E.
A chronology of El Niño events from primary documentary sources in Northern Peru (solicited)

8:45–9:00; EGU2007-A-05096; CL28-1TU1O-002
Graham, N.; Luterbacher, J.; Xoplaki, E.
Annual time-scale teleconnections between European and North American cool season climate over the past millennium.

9:00–9:15; EGU2007-A-04404; CL28-1TU1O-003
Zinke, J.; Pfeiffer, M.; Timm, O.; Dullo, W.-Ch.
Circum Indian Ocean marine and terrestrial records of climate variability: investigating land-ocean interaction since A.D. 1650

9:15–9:30; EGU2007-A-10851; CL28-1TU1O-004
Telford, R.J.; Jansen, E.; Risebrobakken, B.; Knudsen, K.L.; Eriksson, J.; Koc, N.
Synthesis of 1200 years of climate change in the Norwegian Sea

9:30–9:45; EGU2007-A-04001; CL28-1TU1O-005
Masse, G.; Belt, S.; Rowland, S.; Sicre, M.; Crosta, X.
Highly branched isoprenoid biomarkers as indicators of sea-ice diatoms: implications for historical sea-ice records and future predictions

9:45–10:00; EGU2007-A-03309; CL28-1TU1O-006
Hetzinger, S.; Pfeiffer, M.; Dullo, C.; Keenlyside, N.; Latif, M.; Zinke, J.
Caribbean brain coral tracks Atlantic Multidecadal Oscillation and past hurricane intensity

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–11:15; EGU2007-A-05626; CL28-1TU2O-001
Bradley, R.S.
Reconstructions of climate over recent millennia: problems and prospects (Hans Oeschger Medal Lecture) (solicited)

11:15–11:30; EGU2007-A-05424; CL28-1TU2O-002
Juckes, M.; Allen, M.; Briffa, K.; Esper, J.; Hegerl, G.; Moberg, A.; Osborn, T.; Weber, S.; Zorita, E.
Millennial temperature reconstruction intercomparison and evaluation

11:30–11:45; EGU2007-A-02921; CL28-1TU2O-003
Zorita, E.; Gonzalez-Rouco, F.; Wagner, S.
Surface energy balance in an ensemble of simulations of the past centuries

11:45–12:00; EGU2007-A-08888; CL28-1TU2O-004
Kuettel, M.; Luterbacher, J.; Zorita, E.; Xoplaki, E.; Riedwyl, N.; Wanner, H.
Testing a European winter surface temperature reconstruction in a surrogate climate

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2007-A-07000; CL28-1TU3O-001
Christiansen, B.; Thejll, P.; Schmith, T.
Statistical methods in reconstructions: A multi-world study of regression properties

13:45–14:00; EGU2007-A-10255; CL28-1TU3O-002
Linderholm, H.; Folland, C.; Fereday, D.; Hurrell, J.; Ineson, S.; Knight, J.; Scaife, A.
Estimating past summer North Atlantic Oscillation (NAO) variability with tree-ring data

14:00–14:15; EGU2007-A-04609; CL28-1TU3O-003
Matulla, C.; Wang, X.L.; Wan, H.; Alexandersson, H.; Schöner, W.; von Storch, H.
Storminess: Examples from Northern America and Europe

14:15–14:30; EGU2007-A-08483; CL28-1TU3O-004
Vinther, B. M.; Andersen, K. K.; Jones, P. D.; Briffa, K. R.; Cappelen, J.
A Greenland temperature record spanning two centuries

14:30–14:45; EGU2007-A-07167; CL28-1TU3O-005
Brunet, M.; Sigro, J.; Jones, P.D.; Saladié, O.; Aguilar, E.; Moberg, A.; Della-Marta, P.M.; Lister, D.; Walther, A.
Annual and seasonal changes in the distribution of daily maximum and minimum temperature data and in temperature extreme indices throughout the 1901–2005 period over mainland Spain

14:45–15:00; EGU2007-A-02612; CL28-1TU3O-006
Trigo, R.; Vaquero, V.; Alcoforado, M.; Barriendos, M.; Taborda, J.; García-Herrera, R.
The year without summer in Iberia: Climate and Socio-economic assessments

15:00 END OF SESSION

CL28 Climate of the last millennium: reconstructions, analyses and explanation of regional and seasonal changes (including Hans Oeschger Medal Lecture) – Posters

Convener: Jones, P.
Co-Convener(s): Mann, M., Jouzel, J., Dullo, W.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0228; EGU2007-A-06909; CL28-1TU5P-0228
Kleinen, T.; Osborn, T.; Briffa, K.
Investigation into influences on Little Ice Age climate

XY0229; EGU2007-A-07367; CL28-1TU5P-0229
Hansson, D.; Omstedt, A.
Modelling the Baltic Sea ocean climate on centennial time scale; temperature and sea ice

XY0230; EGU2007-A-05083; CL28-1TU5P-0230
Schaefer, J.M.; Denton, G.H.; Barrell, D.A.; Kaplan, M.; Putnam, A.; Schwartz, R.; Andersen, B.; Finkel, R.C.; Schluechter, C.
The pulse of Holocene glaciations in New Zealand's Southern Alps

XY0231; EGU2007-A-01596; CL28-1TU5P-0231
Divine, D.; Isaksson, E.; Godtliedsen, F.; Winther, J.-G.; Johnsen, S. J.; van den Broeke, M.; van de Wal, R. S.
Tropical Pacific – high latitude South Atlantic teleconnections as seen in d18O variability in an Antarctic Coastal Ice Core

XY0232; EGU2007-A-01519; CL28-1TU5P-0232
Halfar, J.; Steneck, B.; Schoene, B.R.; Moore, G.W.K.;
 Joachimski, M.; Kronz, A.; Fietzke, J.; Estes, J.
 Coralline alga reveals first marine record of subarctic North
 Pacific climate change

XY0233; EGU2007-A-07709; CL28-1TU5P-0233
Neukom, R.; LOTRED-SA Consortium
 High-resolution multiproxy climate reconstruction for
 southern South America since 1000 AD: LOTRED-SA, a
 new IGBP-PAGES initiative

XY0234; EGU2007-A-07578; CL28-1TU5P-0234
 Daux, V.; **Yiou, P.**; Mestre, O.; Le Roy Ladurie, E.;
 Seguin, B.; Chuine, I.; Garnier, E.; Viovy, N.
 Temperature and grape harvest dates in France

XY0235; EGU2007-A-01878; CL28-1TU5P-0235
Pongratz, J.; Reick, C.; Raddatz, T.; Claussen, M.
 Anthropogenic land cover change in the last millennium -
 assessing its extent and consequences for climate

XY0236; EGU2007-A-10926; CL28-1TU5P-0236
Yamazaki, Y.H.; Allen, M.R.; Huntingford, C.
 Linking the GCM experiment and climatological data of the
 last Millennium using the carbon cycle model

XY0237; EGU2007-A-08027; CL28-1TU5P-0237
Tan, M.; Shao, X.; Liu, J.
 Millennial temperature reconstruction and simulation for
 China based on annually resolved multi-proxies and ECHO-
 G model

XY0238; EGU2007-A-04655; CL28-1TU5P-0238
Sedlacek, J.; Mysak, L. A.
 Sensitivity model study of Arctic ice-ocean interactions
 during the Little Ice Age using different radiative and wind
 stress forcings

XY0239; EGU2007-A-08163; CL28-1TU5P-0239
Macková, J.; Brázdil, R.; Dobrovolný, P.; Halířková, M.
 Documentary evidence as a source of data for temperature
 and precipitation reconstructions in the past millennium

XY0240; EGU2007-A-01255; CL28-1TU5P-0240
Rodrigo, F.S.
 On the calibration of climate series reconstructed from
 documentary sources: application to seasonal rainfall series
 in the Iberian Peninsula since 1500 A.D.

XY0241; EGU2007-A-02568; CL28-1TU5P-0241
Rodrigo, F.S.; Barriendos, M.; Rama-Corredor, E.;
 Vaquero, J.M.; Esteban-Parra, M.J.; Castro-Díez, Y.;
 Paredes-Beato, D.; García-Herrera, R.
 Medical topographical studies: an unexplored source of
 climatic data in the Iberian Peninsula during the 18th and
 19th centuries

XY0242; EGU2007-A-03085; CL28-1TU5P-0242
 Gallego, D.; García-Herrera, R.; Ribera, P.; Peña, C.;
 Calvo, N.
 A new temperature, pressure and wind series for Cádiz
 (Southern Spain) 1806-1852.

XY0243; EGU2007-A-07971; CL28-1TU5P-0243
Weckström, J.; Korhola, A.; Erästö, P.; Holmström, L.
 Diatom inferred summer temperatures of the past eight
 centuries in northern Fennoscandia

XY0244; EGU2007-A-07066; CL28-1TU5P-0244
Eriksson, C.
 Reconstructing the annual maximal ice cover extent in the
 Baltic Sea (MIB) during the 16th and 17th century

XY0245; EGU2007-A-02040; CL28-1TU5P-0245
Jevrejeva, S.; Grinsted, A.; Moore, J.
 Global sea level reconstruction 1807-2002

XY0246; EGU2007-A-03128; CL28-1TU5P-0246
Schofield, M.; Barker, R.
 Deconstructing reconstruction

XY0247; EGU2007-A-10681; CL28-1TU5P-0247
Bakke, J.; Paasche, Ø
 The Little Ice Age revisited

XY0248; EGU2007-A-06761; CL28-1TU5P-0248
Opel, T.; Fritzsche, D.; Schütt, R.; Meyer, H.; Wilhelms, F.;
 Weiler, K.; Fischer, H.
 A 115 year high-resolution ice core record from Severnaya
 Zemlya, Central Russian Arctic

XY0249; EGU2007-A-05354; CL28-1TU5P-0249
Lee, T. Q.; Yang, T. N.; Lin, T. Y.; Huang, Y. S.; Wei, K. Y.;
 Chen, H. F.; Song, S. R.; Lin, S. F.
 Rapid climate changes in northern Taiwan during last 1200
 years: evidences from lacustrine sediments of Mei-Hwa
 Lake, Ilan

XY0250; EGU2007-A-00519; CL28-1TU5P-0250
 Boychenko, S.
 The quasi-periodic fluctuations of ground temperature of
 northern hemisphere in last millennium

CL31 Antarctic cryosphere and Southern Ocean climate evolution (Cenozoic-Holocene)

Convener: Florindo, F.
 Co-Convener(s): Gersonde, R.
 Lecture Room 25
 Chairperson: FLORINDO-GERSONE

Antarctic cryosphere and Southern Ocean climate evolution

10:30–10:45; EGU2007-A-03892; CL31-1TU2O-002
Langebroek, P.M.; Paul, A.; Oerlemans, J.; Schulz, M.
 The sensitivity of the Antarctic ice sheet to orbital variations
 and atmospheric CO₂ in the Middle Miocene

10:45–11:00; EGU2007-A-04586; CL31-1TU2O-003
Domack, E.
 Recognition of long period waves in Antarctic glacial marine
 (ice shelf) sediments. (solicited)

11:00–11:15; EGU2007-A-08078; CL31-1TU2O-004
Harwood, D.; Bohaty, S.
 Late Miocene sea-ice diatoms indicate a cold polar East
 Antarctic ice sheet event

11:15–11:30; EGU2007-A-10185; CL31-1TU2O-005
Gersonde, R.; Abellmann, A.; Esper, O.; Fischer, H.;
 Kunz-Pirrung, M.
 Records from Antarctic ice and Southern Ocean climate
 archives – Messages on climate mechanisms

11:30–11:45; EGU2007-A-10338; CL31-1TU2O-006
Naish, T.; Powell, R.; ANDRILL MIS Project Science
 Team, &
 A new high-resolution, glaci-marine stratigraphic record
 of Antarctic glacial and climate history for the last 10
 million years: (1) A preliminary stratigraphic framework
 and cyclostratigraphy for the ANDRILL McMurdo Ice Shelf
 Project drill core. (solicited)

11:45–12:00; EGU2007-A-10363; CL31-1TU2O-007
Powell, R.; Naish, T.; ANDRILL MIS Project Science
 Team, &
 A new high-resolution glaci-marine stratigraphic record of
 Antarctic glacial and climate history for the last 10 million
 years: (2) A preliminary paleoenvironmental analysis of the
 ANDRILL McMurdo Ice Shelf Project drill core. (solicited)

12:00 END OF SESSION

CL31 Antarctic cryosphere and Southern Ocean climate evolution (Cenozoic-Holocene) – Posters

Convener: Florindo, F.

Co-Convener(s): Gersonde, R.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: FLORINDO-GERSONDE

XY0251; EGU2007-A-01560; CL31-1TU5P-0251

Hunter, S.; Francis, J.; Haywood, A.; Hindmarsh, R.; Valdes, P.

Modelling Antarctic ice sheets under greenhouse Earth conditions

XY0252; EGU2007-A-06168; CL31-1TU5P-0252

Harada, N.; Uchida, M.; Shibata, Y.; Ahagon, N.; Miyashita, W.; Lange, C.B.; Pantoja, S.

Fluctuations in alkenone-derived sea surface temperature, productivity, and ventilation in the Magellan Strait, Chilean continental margin, over the past 12 kyr

XY0253; EGU2007-A-09885; CL31-1TU5P-0253

Esper, O.; Abelmann, A.; Gersonde, R.; Zonneveld, K.A.F. Further paleobiological evidence for enhanced productivity and less ventilated bottom water in the glacial Southern Ocean

XY0254; EGU2007-A-06707; CL31-1TU5P-0254

Cortese, G.; Gersonde, R.

Size changes in the diatom *Fragilariopsis kerguelensis* and their implications for Southern Ocean paleoreconstructions

XY0255; EGU2007-A-01025; CL31-1TU5P-0255

Gupta, S.M.; Malmgren, B.A.

Was the Antarctic Ocean warmer at the last glacial maximum than at present? - CLIMAP revisited.

XY0256; EGU2007-A-05738; CL31-1TU5P-0256

Martínez García, A.; Rosell-Melé, A.; McClymont, E. L.

Antarctic sea-ice expansion during the Pleistocene: implications for atmospheric CO₂ and high-low latitude teleconnections

XY0257; EGU2007-A-08103; CL31-1TU5P-0257

Maffioli, P.; Malinverno, E.; Grilli, F.; Campanelli, A.; Paschini, E.; Corselli, C.

Response of surface phytoplankton to water mass thermal distribution in the Southern Ocean during the austral summer 2004-2005

XY0258; EGU2007-A-03529; CL31-1TU5P-0258

Rebesco, M.; Camerlenghi, A.

Late Pliocene margin development and mega debris flow deposits on the Antarctic continental margins: evidence of the onset of the modern Antarctic Ice Sheet?

XY0259; EGU2007-A-02122; CL31-1TU5P-0259

Uenzelmann-Neben, G.

Depositional patterns at Drift 7, Antarctic Peninsula: along-slope versus down-slope sediment transport as indicators for oceanic currents and climatic conditions

XY0260; EGU2007-A-03979; CL31-1TU5P-0260

De Santis, L.; Caburlotto, A.; Accettella, D.; Cova, A.; Presti, M.; Loreto, F.

Submarine geomorphology and depositional processes along the George V Land continental slope and upper rise (East Antarctica)

XY0261; EGU2007-A-07364; CL31-1TU5P-0261

Volpi, V.; Rebesco, M.; Diviacco, P.

New Insights in the evolution of Antarctic Glaciation from Depth Conversion of Well-Log calibrated Seismic Section

XY0262; EGU2007-A-05671; CL31-1TU5P-0262

Passchier, S.; Bohaty, S.

Contrasting detrital geochemistry of Eocene vs. Neogene glacial strata, ODP Site 1166, Antarctica

XY0263; EGU2007-A-08650; CL31-1TU5P-0263

Jovane, L.J.; Verosub, KLV; Florindo, FF; Acton, GA

Magnetostratigraphy and Environmental Magnetism of Eltanin Core 27-21, Ross Sea Sector (Antarctica)

XY0264; EGU2007-A-08599; CL31-1TU5P-0264

Jovane, L.J.; Verosub, KLV; Florindo, FF; Acton, GA

Magnetostratigraphy and Environmental Magnetism of Cores from DSDP Sites 270 and 274 (Leg 28), Ross Sea Sector (Antarctica)

XY0265; EGU2007-A-07189; CL31-1TU5P-0265

Aghib, F.S.; Giorgetti, G.; Wilson, T.J.

Syntectonic carbonate cementation in veins. Evidences from the Cenozoic sedimentary successions drilled at Cape Roberts, Victoria Land Basin, Antarctica

CL36 Marine and terrestrial paleoclimate records - recent advances in IODP and ICDP

Convener: Brinkhuis, H.

Co-Convener(s): Roehl, U., Cronin, T.

Lecture Room 25

Chairperson: BRINKHUIS, H.; ROEHL, U.; CRONIN, T.

8:30–8:45; EGU2007-A-02152; CL36-1TU10-001

Camoin, G.; Iryu, Y.; McInroy, D.; Expedition 310 Scientists

Sea-level rise, climatic changes and reef development during the last deglaciation. Preliminary results from the IODP expedition 310 “Tahiti sea level”. (solicited)

8:45–9:00; EGU2007-A-07300; CL36-1TU10-002

O'Regan, M.; Moran, K.; Sangiorgi, F.; Brinkhuis, H.; Backman, J.; Jakobsson, M.; Stickley, C.; Koc, N.; Brumsack, H.; Pockalny, R.

Mid-Cenozoic tectonic and palaeoenvironmental setting of the central Arctic Ocean (solicited)

9:00–9:15; EGU2007-A-08199; CL36-1TU10-003

Westerhold, T.; Röhl, U.; Raffi, I.; Fornaciari, E.; Mon-echi, S.; Reale, V.; Bowles, J.; Evans, H.

Pushing the Limits of Stratigraphy - The First Comprehensive Orbital Chronology for the Paleocene and its Implications for the K/Pg boundary age

9:15–9:30; EGU2007-A-10167; CL36-1TU10-004

Anselmetti, F.S.; Hodell, D.; Ariztegui, D.; Brenner, M.; Curtis, J.; Gilli, A.; Grzesik, D.; Kutterolf, S.; Mueller, A.D.; scientific party, PISDP

An ~85-kyr climate record from the lowland Neotropics (Guatemala): The Lago Petén Itzá Scientific Drilling Project (solicited)

9:30–9:45; EGU2007-A-11306; CL36-1TU10-005

Smit, J

From the Yaxcopoil-1 drillhole to ODP Site 540/536: No evidence for pre-KT age of the Chicxulub crater (solicited)

9:45–10:00; EGU2007-A-02309; CL36-1TU10-006

Lamy, F.; Kaiser, J.; Arz, H.W.; Hebbeln, D.; Ninnemann, U.; Timm, O.; Timmermann, A.; Toggweiler, J.R.

Modulation of the bipolar seesaw in the Southeast Pacific during Termination 1 (solicited)

CL36 Marine and terrestrial paleoclimate records - recent advances in IODP and ICDP – Posters

Convener: Brinkhuis, H.
Co-Convener(s): Roehl, U., Cronin, T.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: BRINKHUIS, H.; ROEHL, U.; CRONIN, T.

XY0266; EGU2007-A-01027; CL36-1TU5P-0266
Heindel, K.; **Westphal, H.**; Camoin, G.; Seard, C.; Birgel, D.; Peckmann, J.; IODP Expedition 310 Scientists, X; IODP #310 microbialite team
Microbialite-dominated coral reefs as response to abrupt environmental changes during the last deglacial sea-level rise: IODP Expedition #310, Tahiti

XY0267; EGU2007-A-02416; CL36-1TU5P-0267
Séard, C.; Camoin, G.; Bard, E.; Borgomano, J.; Deschamps, P.; Durand, N.; Hamelin, B.; Webster, J.; Westphal, H.; Yokoyama, Y.
Reconstructing reef accretion during the last deglacial sea-level rise : I.O.D.P. #310 expedition “ Tahiti sea level ”.

XY0268; EGU2007-A-05492; CL36-1TU5P-0268
Deschamps, P.; Durand, N.; Bard, E.; Hamelin, B.; Camoin, G.; Thomas, A.L.; Henderson, G.M.; Yokoyama, Y.; IODP Expedition 310 Scientists, .
New evidence for the existence of the MWP-1A from a “far-field” site - Preliminary results from the Tahiti IODP Expedition 310

XY0269; EGU2007-A-06927; CL36-1TU5P-0269
Felis, T.; Asami, R.; Deschamps, P.; Kölling, M.; Durand, N.; Bard, E.; IODP Expedition 310 Scientists, .
Sub-seasonal reconstructions of South Pacific climate during the last deglaciation from Tahiti corals - preliminary results from IODP Expedition 310

XY0270; EGU2007-A-03266; CL36-1TU5P-0270
Sangiorgi, F.; Brumsack, H.-J.; Schouten, S.; Brinkhuis, H.; Willard, D.A.; Reichart, G.-J.; Stickley, C.E.; Kaminiski, M.A.; Sinninghe Damste', J.S.
A ~25 Ma gap in the central Arctic Cenozoic record; Why and how?

XY0271; EGU2007-A-04417; CL36-1TU5P-0271
Stickley, C.E.; Koc, N.; Jordan, R.; Suto, I.
Eocene palaeoenvironments and biostratigraphy in the Arctic: A diatom and chrysophyte perspective

XY0272; EGU2007-A-03469; CL36-1TU5P-0272
van Soelen, E.; Brinkhuis, H.; Sangiorgi, F.; Spofforth, D.; Pälike, H.; Stickley, C.E.; Koc, N.; Schouten, S.; Sinninghe Damsté, J.S.
Middle Eocene cyclicity in Central Arctic Ocean sediments; preliminary results

XY0273; EGU2007-A-10304; CL36-1TU5P-0273
Sugisaki, S.; Sakamoto, T.; Iijima, K.; Yamamoto, M
Late Neogene Arctic sea ice history IODP Expedition 302: Arctic Coring Expedition (ACEX) by new non-destructive technology, TATSCANs

XY0274; EGU2007-A-03461; CL36-1TU5P-0274
Bijl, P.K.; Brinkhuis, H.; Sluijs, A.; Reichart, G.J.; Röhl, U.
Late Paleocene- Early Eocene paleoenvironments in the Southwest Pacific (ODP Leg 189); revised stratigraphy and an Antarctic PETM record.

XY0275; EGU2007-A-08311; CL36-1TU5P-0275
Romero, O. E.
High-resolution climatic record of the high-latitude Atlantic (Site 1302/03, IODP Exp 303): Pleistocene occurrence of rapidly-deposited detrital layers

XY0276; EGU2007-A-04268; CL36-1TU5P-0276
Grützner, J.; Higgins, S.M.
A 1.1 Ma long record of sediment provenance at the southern Gardar Drift: implications for millennial-scale changes in subpolar deep water hydrography

XY0277; EGU2007-A-10400; CL36-1TU5P-0277
Etourneau, J.; Martinez, P.; Blanz, T.; Schneider, R
Past temperature and nutrient conditions in the Namibian upwelling system over the last 3.5 Ma, ODP Site 1082

XY0278; EGU2007-A-10807; CL36-1TU5P-0278
Brigham-Grette, J.; Melles, M.; Minyuk, P.; Koeberl, C.
Beringian & Arctic Climate Change recorded in El'gygytgyn Crater Lake, NE Siberia: The science justifying deep drilling

XY0279; EGU2007-A-07408; CL36-1TU5P-0279
Zolitschka, B.; **Anselmetti, F.S.**; Ariztegui, D.; Corbella, H.; DeBatist, M.; Gebhardt, C.; Habertzettl, T.; Niessen, F.; Ohlendorf, C.
Climatic reconstruction of the last 770 ka, explosive volcanism and post-eruptive evolution of the Argentinean maar Laguna Potrok Aike – a proposed ICDP deep drilling project

XY0280; EGU2007-A-07267; CL36-1TU5P-0280
Schulte, P.; Deutsch, A.; Krumm, S.; Joachimski, M.
A multiproxy record of Late Maastrichtian and Danian environmental change and Chicxulub impact ejecta from ODP Leg 207, tropical western North Atlantic

XY0281; EGU2007-A-05958; CL36-1TU5P-0281
Weigelt, E.; **Uenzelmann-Neben, G.**; Dupont, L.
Extending Terrestrial Climate Information Into the Marine Realm: Palynological Information as a key to Seismic Interpretation

CL38/GI12 Earth System Modelling: Strategies and Software (co-organized by GI, co-listed in AS, HS & OS)

Convener: Budich, R.
Co-Convener(s): Redler, R.
Lecture Room 14
Chairperson: BUDICH, R.

15:30–15:45; EGU2007-A-01542; CL38/GI12-1TU40-001
Kirk, E.; Fraedrich, K.; Lunkeit, F.
The Planet Simulator: An integrated system of development environment and online visualisation for PC, parallel computer, and cluster.

15:45–16:00; EGU2007-A-11481; CL38/GI12-1TU40-002
Maschhoff, K.; Johnsen, P.; **Nyberg, P.**
Multi-disciplinary coupling of Earth system models on a hybrid computing architecture

16:00–16:15; EGU2007-A-10351; CL38/GI12-1TU40-003
Cofiño, A. S.; Carrillo, M.; Baeza, C.; Fernández, J.; San Martín, R. M.; Abarca, R.; Gutierrez, J. M.
GRID distributed computation of nested climate simulations. The EELA project

16:15–16:30; EGU2007-A-03252; CL38/GI12-1TU40-004
Jöckel, P.; Kerkweg, A.; Pozzer, A.; Sander, R.; Tost, H.; Lelieveld, J.
Structure and principles of the Modular Earth Submodel System (MESSy)

16:30–16:45; EGU2007-A-10935; CL38/GI12-1TU4O-005
Armstrong, C; Ford, R; Riley, G
 Flexible Coupling with BFG

16:45–17:00; EGU2007-A-07149; CL38/GI12-1TU4O-006
Ulbrich, U.; Hiller, W.; Fritzsche, B.; Budich, R.; Stock-
 hause, M.; Kirchner, I.; Kupfer, H.; Kurz, C.; Kinder-
 mann, S.; Ronneberger, K.
 C3Grid: Benefits for scientists

17:00 END OF SESSION

CL38/GI12 Earth System Modelling: Strategies and Software (co-organized by GI, co-listed in AS, HS & OS) – Posters

Convener: Budich, R.
 Co-Convener(s): Redler, R.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 17:30–19:00

Poster Area Halls X/Y
 Chairperson: REDLER, R.

XY0282; EGU2007-A-00858; CL38/GI12-1TU5P-0282

Baltaci, A. G.; Sarac, C.

Geostatistical Simulation of Reservoir Characteristics in the Region of Adiyaman, Turkey

XY0283; EGU2007-A-10764; CL38/GI12-1TU5P-0283

Stepanek, P.; González-Hidalgo, J.C.; De Luis, M.

Software package for processing climatological time series

XY0284; EGU2007-A-10166; CL38/GI12-1TU5P-0284

Artamonov, I.V.; Gladkikh, M.M.; Martynenko, O.V.;
 Namgaladze, A.A.; Sobolev, D.V.

Framework atmosphere model – software tool for model coupling

XY0285; EGU2007-A-01245; CL38/GI12-1TU5P-0285

Döscher, R.; Wyser, K.; Meier, H.E.M; Graham, P

RCAO, the Rossby Centre Atmosphere-Ocean-Ice model

XY0286; EGU2007-A-08213; CL38/GI12-1TU5P-0286

Flemming, J.; Larsson, C.; Moinat, P.; Segers, A.; Stein, O.;
 Dethof, A.; Schultz, M.

Coupling ECMWF's Integrated Forecast System to Chemical Transport Models by means of OASIS4

XY0287; EGU2007-A-08002; CL38/GI12-1TU5P-0287

Coquart, L.; Valcke, S.; Redler, R.; Ritzdorf, H.; Marti, O.;
 Caubel, A.; Ghattas, J.; Planton, S.; Somot, S.; Lucas, M.
 OASIS4: a code coupler for the climate modelling CIRCLE project

XY0288; EGU2007-A-04046; CL38/GI12-1TU5P-0288

Hazeleger, W.; Klaus, W

EC-EARTH: an Earth System model based on ECMWFs modelling system

XY0289; EGU2007-A-09152; CL38/GI12-1TU5P-0289

Fogli, P.G.; Manzini, E.; Vichi, M.; Alessandri, A.;
 Gualdi, S.; Masina, S.; Navarra, A.; Patara, L.; Scocci-
 marro, E.

The INGV-CMCC Earth System Model: Configuration and technical results

XY0290; EGU2007-A-10241; CL38/GI12-1TU5P-0290

Li, P.; Cheung, S.; Theurich, G.; DeLuca, C.

ESMF performance evaluation and optimization

XY0291; EGU2007-A-10551; CL38/GI12-1TU5P-0291

Price, A. R.; Voutchkov, I. I.; Edwards, N. R.; Hughes, J.
 K.; Lunt, D. J.; Lenton, T. M.; Valdes, P. J.; Cox, S. J.
 Multiobjective tuning of GENIE Earth system models

XY0292; EGU2007-A-05155; CL38/GI12-1TU5P-0292

Sundari, S.; Vadhiyar, S; **Nanjundiah, R S**

Coupled climate models on Grids

XY0293; EGU2007-A-01746; CL38/GI12-1TU5P-0293

Legutke, S.; Lautenschlager, M.; Widmann, H.; Gayler, V.
 An 'Integrating Model and Data Infrastructure' for Earth
 system modelling

XY0294; EGU2007-A-04463; CL38/GI12-1TU5P-0294

Toussaint, F.; Wegner, J.

World Data Center for Climate: Data Support for Earth
 System Modelling

Cryospheric Sciences

CR20 Open session on permafrost (co-listed in CL, GM & NH)

Convener: Gruber, S.

Co-Convener(s): Hauck, C.

Lecture Room 29

Chairperson: N.N.

10:30–10:45; EGU2007-A-04703; CR20-1TU2O-001

Stendel, M.; Christensen, J.H.; Romanovsky, V.; Foged, N.;
 Svendsen, K.H.; Walsh, J.

An integrated approach to recent and future permafrost
 variability and retreat in Greenland and Alaska (solicited)

10:45–11:00; EGU2007-A-10311; CR20-1TU2O-002

Isaksen, K.; Benestad, R.

Permafrost thermal response to the extreme winter and
 spring temperatures of 2005/2006 on the Arctic islands
 Svalbard

11:00–11:15; EGU2007-A-09884; CR20-1TU2O-003

Krautblatter, M.; Hauck, C.; Wolf, S.

Geophysical 2D and 3D-monitoring of permafrost in rock
 walls

11:15–11:30; EGU2007-A-08964; CR20-1TU2O-004

Lambiel, L

Permafrost distribution in talus slopes located within the
 alpine periglacial belt

11:30–11:45; EGU2007-A-05615; CR20-1TU2O-005

Palacios, D.; Zamorano, J.J.; Andrés, N.

Permafrost distribution in tropical stratovolcanoes:
 Popocatepetl and Iztaccíhuatl volcanoes (Mexico)

11:45–12:00; EGU2007-A-11532; CR20-1TU2O-006

van Gasselt, S.; Hauber, E.

Cold-Climate Landforms and Processes on Mars (solicited)

12:00 END OF SESSION

CR80 Mass and energy balance of snow and ice

Convener: Scherer, D.

Co-Convener(s): Brock, B.

Lecture Room 29

Chairperson: N.N.

13:30–13:45; EGU2007-A-01896; CR80-1TU3O-001

Fettweis, X.; van Ypersele, J.-P.; Gallée, H.; Lefebvre, F.;
 Lefebvre, W.

Reconstruction of the 1979-2005 Greenland ice sheet surface
 mass balance using the regional climate model MAR

13:45–14:00; EGU2007-A-04489; CR80-1TU3O-002
Bamber, J.; Bougamont, M.; Hanna, E.; Greuell, W.; Gladstone, R.; Payne, T.; Ridley, J.; Rutt, I
 Uncertainties in the present-day and future surface mass balance of the Greenland ice Sheet

14:00–14:15; EGU2007-A-03884; CR80-1TU3O-003
Giesen, R.H.; Oerlemans, J.
 Modelling the 20th century surface mass balance of Hardangerjøkulen, southern Norway

14:15–14:30; EGU2007-A-09071; CR80-1TU3O-004
 Asztalos, J.; **Kirnbauer, R.;** Escher-Vetter, H.; Braun, L. N.
 A distributed energy balance snow and glacier melt model as a component of a flood forecasting system.

14:30–14:45; EGU2007-A-03765; CR80-1TU3O-005
Mihalcea, C.; Brock, B.W.; Diolaiuti, G.; D'Agata, C.; Citterio, M.; Kirkbride, M.P.; Smiraglia, C.; Cutler, M.E.J
 Comparison of ground based and ASTER derived measurements of surface temperature and supraglacial debris thickness on Miage Glacier, Mont Blanc Massif, Italy

14:45–15:00; EGU2007-A-03775; CR80-1TU3O-006
Corripio, J. G.; Molnar, P.; Dadic, R.
 Modelling snow ablation and runoff generation in glaciated basins using data from GCMs

15:00–15:15; EGU2007-A-11307; CR80-1TU3O-007
Moelg, T.; Cullen, N.; Hardy, D.; Kasser, G
 Mass balance of a tropical glacier and its sensitivity to climate fluctuations: Kilimanjaro, 5873 m a.s.l.

15:15 END OF SESSION

CR80 Mass and energy balance of snow and ice – Posters

Convener: Scherer, D.
 Co-Convener(s): Brock, B.
 Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 17:30–19:00

Poster Area Hall A
 Chairperson: N.N.

A0001; EGU2007-A-01935; CR80-1TU5P-0001
Fettweis, X.; van Ypersele, J.-P.; Gallée, H.; Lefebvre, F.; Lefebvre, W.
 The 1979–2005 Greenland ice sheet melt extent from passive microwave data using an improved version of the melt retrieval XPRG algorithm

A0002; EGU2007-A-03439; CR80-1TU5P-0002
Smeets, C.; Van den Broeke, M. R.
 Summer energy balance in the ablation zone of the Greenland ice sheet

A0003; EGU2007-A-03552; CR80-1TU5P-0003
Huss, M.; StÄckli, R.; Kappenberger, G.; Blatter, H.
 Mass balance 1959–2002 of Laika Glacier, Canadian Arctic

A0004; EGU2007-A-04137; CR80-1TU5P-0004
Giesen, R.H.; Andreassen, L.M.; van den Broeke, M.R.; Oerlemans, J.
 Analysis of micro-meteorological records (2001–2006) from Storbreen and Midtdalsbreen, two glaciers in southern Norway

A0005; EGU2007-A-10856; CR80-1TU5P-0005
Mott, R.; Faure, F.; Holzmann, H.; Koboltschnig, G.; Lehning, M.; Michlmayr, G.; Schoener, W.
 Simulation of snow cover development and snow cover distribution for glaciated sites (Sonnblick, Austrian Alps) with the ALPINE3D model

A0006; EGU2007-A-01703; CR80-1TU5P-0006
Thibert, E.; Vincent, C.; Eckert, N.
 Ability of the volumetric mass balance method to detect a bias in the glaciological one on a long time series

A0007; EGU2007-A-07372; CR80-1TU5P-0007
Endrizzi, S.; Rigon, R.
 Application of a physically-based hydrologic model to an alpine glacier

A0008; EGU2007-A-08303; CR80-1TU5P-0008
Hebeler, F.; Vetsch, M.; Purves, R.S.; Hoelzle, M.
 Using hypsometric Parameterisation in Melt Modelling to minimise the Impact of DEM Uncertainty

A0009; EGU2007-A-04879; CR80-1TU5P-0009
Machguth, H.; Purves, R.; Paul, F.; Hoelzle, M.
 Exploring uncertainty in glacier mass balance modelling with Monte Carlo simulation

A0010; EGU2007-A-06249; CR80-1TU5P-0010
Machguth, H.; Dadic, R.; Paul, F.
 Comparison of ablation modelling by three mass balance models of differing complexity

A0011; EGU2007-A-03951; CR80-1TU5P-0011
Huss, M.; Kappenberger, G.; MÄller-Lemans, H.; Bauder, A.
 90 years of seasonal mass balance observations on Claridenfirn, Switzerland: Field data and model results

A0012; EGU2007-A-07617; CR80-1TU5P-0012
 Kretz, A.; **Pellicciotti, F.;** Bauder, A.
 Modelling spatial and temporal variations in melt rates on Gornergletscher using an enhanced temperature-index model

A0013; EGU2007-A-08324; CR80-1TU5P-0013
Rimkus, S.; Pellicciotti, F.
 Glacier surface melt modelling: inter-comparison of two energy-balance and two temperature-index approaches and their sensitivity to the input data quality

A0014; EGU2007-A-06223; CR80-1TU5P-0014
Dadic, R.; Corripio, J.G.; Burlando, P.
 Sensitivity of the energy balance to measuring height of input variables

A0015; EGU2007-A-07768; CR80-1TU5P-0015
Carenzo, M.; Pellicciotti, F.; Rimkus, S.; Burlando, P.
 A study of the transferability and robustness of an enhanced temperature-index model

A0016; EGU2007-A-07745; CR80-1TU5P-0016
Pellicciotti, F.; Helbing, J.; Araos, J.; Favier, V.; Rivera, A.; Corripio, J.; Sicart, J.
 Studying the energy balance and surface melt at the location of an automatic weather station on a glacier of the dry Andes: Juncal Norte Glacier, Central Chile

CR90 Mountain Hydrology and Climatology: present state and future scenarios (co-listed in HS)

Convener: de Jong, C.
 Co-Convener(s): Naaim, M., Beniston, M.
 Lecture Room 29
 Chairperson: N.N.

15:30–16:00; EGU2007-A-09526; CR90-1TU4O-001
Bales, R.
 Hydrologic observatory design in the Western United States: Scaling measurements and modeling in the Sierra Nevada of California (solicited)

16:00–16:15; EGU2007-A-09576; CR90-1TU4O-002

Conklin, M; Liu, F; Shaw, G

Processes controlling baseflow and climatic warming effects in the Merced River, Sierra Nevada, California

16:15–16:30; EGU2007-A-01186; CR90-1TU4O-003

Rimmer, A.

HYdrological Model for Karst Environment (HYMKE)-Application to the Hermon Mountain (North of Israel)

16:30–16:45; EGU2007-A-08129; CR90-1TU4O-004

Duchemin, B.; Leroux, J.; **Boulet, G.**; Maisongrande, P.; Hanich, L.; Boudhar, A.; Chaponnière, A.; Chehbouni, A.G. Improvement of remotely sensed snow cover monitoring in semi-arid High Atlas mountains and its assimilation in a distributed hydrological model

16:45–17:00; EGU2007-A-04414; CR90-1TU4O-005

Flügel, W. A.; Bongartz, K.; Janauer, G.; **Dragut, L.**; Zeil, P.; Kienberger, S.

Comparative analysis of climate change impacts in the Yarlung Tsangpo (Upper Brahmaputra) and Upper Danube river basins – the BRAHMATWINN Project.

17:00–17:15; EGU2007-A-06569; CR90-1TU4O-006

Buytaert, W; Celleri, R; De Bièvre, B

The impact of climate change on the water supply of the Amaluza dam, south Ecuador

17:15–17:30; EGU2007-A-07524; CR90-1TU4O-007

Bavera, D.; Bocchiola, D.; De Michele, C.

A statistical estimation of snow water equivalent using ground data and MODIS® images

17:30 END OF SESSION

CR90 Mountain Hydrology and Climatology: present state and future scenarios (co-listed in HS) – Posters

Convener: de Jong, C.

Co-Convener(s): Naaim, M., Beniston, M.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 17:30–19:00

Poster Area Hall A

Chairperson: N.N.

A0017; EGU2007-A-11607; CR90-1TU5P-0017

Kerr, T.; Owens, I.; Henderson, R.

An extreme average annual precipitation gradient measured in a lee mountain catchment, South Island, New Zealand

A0018; EGU2007-A-09687; CR90-1TU5P-0018

Rößler, O.; Winiger, M.; Löffler, J.

A new approach to model alpine water balance processes and gradients

A0019; EGU2007-A-09532; CR90-1TU5P-0019

Freppaz, M.; **Maggioni, M.**; Piccini, P.; Filippa, G.; Zanini, E.

Snowpack evolution on the Indren glacier (NW Alps, Italy) under different meteorological conditions

A0020; EGU2007-A-03046; CR90-1TU5P-0020

Durand, Y.; Giraud, G.; Laternser, M.; Etchevers, P.; Lesaffre, B.; Mérindol, L.

44 Years of climate reanalyses in the French Alps (1958–2002): methodology, validation and results for the main meteorological parameters and related snow cover conditions.

A0021; EGU2007-A-05070; CR90-1TU5P-0021

Dedieu, JP.; Dullinger, S.; Randin, C.; Guisan, A.; Zappa, M.; Jonas, T.

Snow cover modelling under Climate Change conditions (present and future) for alpine plants dynamics (Austria).

A0022; EGU2007-A-07746; CR90-1TU5P-0022

Schmidt, S.; Weber, B.; Winiger, M.

Filling the Gap - The Potential of Terrestrial Images to Monitor the Snow Cover Distribution in Mountains

A0023; EGU2007-A-09134; CR90-1TU5P-0023

Roessler, O.; Schmidt, S.

Comparison of statistical vs. physically modelled snow cover pattern – validation based on terrestrial images

A0024; EGU2007-A-09653; CR90-1TU5P-0024

Bales, R; Rice, R; Painter, T; Dozier, J

Estimating snowcover along elevation gradients in the Sierra Nevada of California from MODIS and blended ground data (solicited)

A0025; EGU2007-A-07038; CR90-1TU5P-0025

Skaugen, T

Estimating the spatial variability of SWE

A0026; EGU2007-A-10536; CR90-1TU5P-0026

Schulz, O.

Snow ablation and runoff in the southern High Atlas Mountains of Morocco

A0027; EGU2007-A-10145; CR90-1TU5P-0027

Brencic, M.; Vreca, P.

Isotopic investigations of small mountain groundwater flow dominated river

A0028; EGU2007-A-05176; CR90-1TU5P-0028

Michlmayr, G.; Holzmann, H.; Koboltschnig, G.; Lehnig, M.; Mott, R.; SchÄ¶ner, W.; Zappa, M.

A physically based snowpack and icemelt model for the distributed simulation of the water balance in a high Alpine catchment

A0029; EGU2007-A-04141; CR90-1TU5P-0029

Koboltschnig, G.; Holzmann, H.; Schöner, W.; Zappa, M.

Snow- and icemelt contribution of Alpine catchments on different spatial scales: the transferability of model parameters

A0030; EGU2007-A-03331; CR90-1TU5P-0030

Molnár, D.; Zappa, M.

Towards a better understanding of Swiss mountain hydrology: a regional analysis using PREVAH

A0031; EGU2007-A-05202; CR90-1TU5P-0031

Perona, P.; Pasquale, N.; Molnar, D.

Mechanistic modeling of glaciated alpine basins: case studies

A0032; EGU2007-A-05198; CR90-1TU5P-0032

Perona, P.; Burlando, P.

Mechanistic modeling of glaciated alpine basins: model development

A0033; EGU2007-A-09849; CR90-1TU5P-0033

Lambrecht, A.

Temporal variability of the contribution of glaciers in western Austria to water discharge

A0034; EGU2007-A-09857; CR90-1TU5P-0034

Kruk, N. S.; Vendrame, I. F.; Chou, S. C.

Sensitivity analysis of hydrological modeled responses to soil parameters in a watershed located in Serra do Mar, Brazil

CR100 Remote sensing of snow cover and sea ice (co-listed in HS)

Convener: Tedesco, M.
Co-Convener(s): Loew, A.
Lecture Room 29
Chairperson: N.N.

8:30–8:45; EGU2007-A-00250; CR100-1TU10-001

Jin, Y.Q.

Multiple scattering and emission from inhomogeneously layered snowpack

8:45–9:00; EGU2007-A-09173; CR100-1TU10-002

de la Rosa, S.; Kern, S.

Estimation of polynya area and thin ice thickness using satellite microwave radiometry in the Ross Sea, Antarctica

9:00–9:15; EGU2007-A-03798; CR100-1TU10-003

Alexandrov, V.Y.; Sandven, S.

Estimation of the relation between ice thickness and ice freeboard

9:15–9:30; EGU2007-A-09695; CR100-1TU10-004

Tedesco, M.

An improved technique for snowmelt detection (1978 – 2006) over the Greenland Ice Sheet using microwave brightness temperature daily variations

9:30–9:45; EGU2007-A-04485; CR100-1TU10-005

Hall, D.; Williams, R.; DiGirolamo, N.

Surface-temperature variability in the major drainage basins of the Greenland ice sheet using MODIS data, 2000 – 2006

9:45 END OF SESSION

CR100 Remote sensing of snow cover and sea ice (co-listed in HS) – Posters

Convener: Tedesco, M.
Co-Convener(s): Loew, A.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 17:30–19:00
Poster Area Hall A
Chairperson: N.N.

A0035; EGU2007-A-00360; CR100-1TU5P-0035

Das, I.; Sarwade, R.N.

Snow Depth estimation over North Western Indian Himalaya using AMSR-E

A0036; EGU2007-A-00805; CR100-1TU5P-0036

Biancamaria, S.; Mognard, N.; Boone, A.; Grippa, M.

Impact of landcover on snow depth estimation from SSM/I data over Boreal regions

A0037; EGU2007-A-01606; CR100-1TU5P-0037

Bänninger, D.; Bourgeois, S.; Matzl, M.; Schneebeli, M.

Reflectance measurement and calculation for real snow structures

A0038; EGU2007-A-02755; CR100-1TU5P-0038

Kaasalainen, S.; Kukko, A.

Snow Reflectance Measurements using terrestrial Laser Scanner

A0039; EGU2007-A-02877; CR100-1TU5P-0039

Wang, K.

Remote sensing of the yield curve of compacted pack ice

A0040; EGU2007-A-04696; CR100-1TU5P-0040

Lindsay, R.; **Stern, H.**; Weiss, J.; Marsan, D.; Rampal, P.
Space and time scaling of sea ice deformation

A0041; EGU2007-A-04822; CR100-1TU5P-0041

Bourgeois, C. S.; Calanca, P.; Ohmura, A.

A field study of the hemispherical directional reflectance factor and spectral albedo of dry snow

A0042; EGU2007-A-06214; CR100-1TU5P-0042

Behlke, R.; Sigernes, F.; Volent, Z.; Wasylewicz, A.; Pigeon, A.; Nawrath, J.; Miloch, W.

Airborne Remote Sensing Campaign over Svalbard: Image Classification

A0043; EGU2007-A-06670; CR100-1TU5P-0043

Narvekar, P.; Tonboe, R.; Heygster, G.; Jackson, T.; Bindlish, R.

Analysis of WindSat Measured Polarimetric Microwave Brightness Temperatures over Sea Ice

A0044; EGU2007-A-09159; CR100-1TU5P-0044

Brucker, L.; Picard, G.; Fily, M.

Modelling microwave emission of stratified snowpack in Antarctica

A0045; EGU2007-A-09244; CR100-1TU5P-0045

Gabellani, S.; Rudari, R.; Boni, G.; Silvestro, F.; Macchiavello, G.

Calibration of a snow model with MODIS data for flood simulation.

A0046; EGU2007-A-09915; CR100-1TU5P-0046

Tedesco, M.; Markus, T.

Retrieval of snow parameters from AMSR-E brightness temperatures using a physically-based simplified approach: first results

A0047; EGU2007-A-10504; CR100-1TU5P-0047

Holzmann, H.; Koboltschnig, G.; Vollmann, M.; Schöner, W.
Snow melt modelling and comparison with satellite images

CR135 Modelling sea ice and ice-ocean interactions (co-listed in OS)

Convener: Feltham, D.
Co-Convener(s): Morales Maqueda, M.
Lecture Room 7
Chairperson: N.N.

13:30–13:45; EGU2007-A-10380; CR135-1TU3O-001

Tison, J.-L.; Verbeke, V.; Brabant, F.; Garrison, D.; Gowing, M.; Jeffries, M.

Early winter pack ice gas properties from the Ross Sea (Antarctica): controls from the physical and biological parameters of the sea ice cover (solicited)

13:45–14:00; EGU2007-A-07604; CR135-1TU3O-002

Delille, B.; Borges, A.V.; Lannuzel, D.; Becquevort, S.; Schoemann, V.; Lancelot, C.; De Jong, J.T.M.; Tilbrook, B.; Delille, D.; Tison, J.-L.

Spring CO₂ dynamics within sea ice: abiotical versus biological control

14:00–14:15; EGU2007-A-07024; CR135-1TU3O-003

Sundfjord, A.; Fer, I.

Vertical mixing in the marginal ice zone of the Barents Sea

14:15–14:30; EGU2007-A-02007; CR135-1TU3O-004

Smedsrud, L.H.; Skogseth, R.; Nilsen, F.

Observations of in-situ supercooled water in an Arctic polynya (solicited)

14:30–14:45; EGU2007-A-08379; CR135-1TU3O-005

Morales Maqueda, M. A.

A parameterisation of frazil ice collection thickness in leads and polynyas for sea ice models

14:45–15:00; EGU2007-A-11293; CR135-1TU3O-006
Holland, P. R.; **Feltham, D. L.**; Jenkins, A.
Ice Shelf Water plume flow beneath Filchner-Ronne Ice Shelf, Antarctica

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-05023; CR135-1TU4O-001
Gerdes, R.; Koeberle, C.
Arctic Sea Ice Thickness Variability over the 20th Century in coupled Climate Models and Ocean-Sea Ice Hindcasts (solicited)

15:45–16:00; EGU2007-A-03731; CR135-1TU4O-002
Rollenhagen, K.; Timmermann, R.; Janjic, T.; Schröter, J.
Sea ice drift assimilation in a finite element sea ice model using a Singular Evolutive Interpolated Kalman filter

16:00–16:15; EGU2007-A-10686; CR135-1TU4O-003
HIBLER, W.; Roberts, A.
Modeling Tidal and Inertial Variability in Sea-Ice Drift and Deformation (solicited)

16:15–16:30; EGU2007-A-01532; CR135-1TU4O-004
Jourdain, N.; Gallee, H.
Atmosphere-sea ice-ocean interactions in the Ross Sea sector, Antarctica

16:30–16:45; EGU2007-A-05306; CR135-1TU4O-005
Ridley, J
Rapid changes in the ice front in the HadGEM1 climate model

16:45–17:00; EGU2007-A-01017; CR135-1TU4O-006
Meylan, M. H.; Kohout, A. L.
An elastic plate model for the attenuation rates of ocean waves in the marginal ice zone

17:00 END OF SESSION

CR135 Modelling sea ice and ice-ocean interactions (co-listed in OS) – Posters

Convener: Feltham, D.
Co-Convener(s): Morales Maqueda, M.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 17:30–19:00
Poster Area Hall A
Chairperson: N.N.

A0048; EGU2007-A-01463; CR135-1TU5P-0048
Feltham, D. L.; Taylor, P. D.; Sammonds, P. R.; Hatton, D.
Sea ice rheology and the sub-grid scale

A0049; EGU2007-A-03742; CR135-1TU5P-0049
Bouillon, S.; Fichefet, T.; Morales-Maqueda, M. A.; Legat, V.
Elastic-viscous-plastic rheology in the Louvain-la-Neuve sea-ice model: comparison of different spatial discretizations and different grid types

A0050; EGU2007-A-02432; CR135-1TU5P-0050
Dorn, W.; Dethloff, K.; Rinke, A.; Gerdes, R.
Sensitivities and uncertainties in the simulation of Arctic sea ice with a coupled regional atmosphere-ocean-ice model

A0051; EGU2007-A-08619; CR135-1TU5P-0051
Schroeder, D
Sensitivity to sea ice initial conditions in the Hadley Centre Climate Model (HADCM3) on timescales from seasonal to decadal

A0052; EGU2007-A-02830; CR135-1TU5P-0052
Dulière, V.; **Fichefet, T.**
On the assimilation of ice velocity and concentration data into large-scale sea ice models

A0053; EGU2007-A-09486; CR135-1TU5P-0053
Nilsson, J.; Björk, G.
Heat flux from the Atlantic waters to the Arctic ice cover, verifying an ice-ocean model with SHEBA data and quantifying ice growth and melt.

A0054; EGU2007-A-03960; CR135-1TU5P-0054
Lietaer, O.; Bouillon, S.; Fichefet, T.; Legat, V.
Simulations of the Arctic Basin with a finite element sea-ice model

A0055; EGU2007-A-04665; CR135-1TU5P-0055
Sedlacek, J.; Lemieux, J.-F.; Mysak, L. A.; Tremblay, L. B.; Holland, D. M.
The granular sea-ice model in spherical coordinates and its application to a global climate model

A0056; EGU2007-A-05304; CR135-1TU5P-0056
Vancoppenolle, M.; **Fichefet, T.**; Goosse, H.
LIM3, an advanced sea ice model for climate studies

A0057; EGU2007-A-07786; CR135-1TU5P-0057
McClymont, E.L.; Rosell-Melé, A.
Tropical and high-latitude surface ocean circulation across the mid-Pleistocene transition: teleconnections and impacts for ice-sheet growth

A0058; EGU2007-A-00938; CR135-1TU5P-0058
Brabant, F.; Verbeke, V.; Tison, J.-L.
A model for the evolution of gas properties during sea ice growth

Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 17:30–19:00

Poster Area Hall A
Chairperson: N.N.

A0059; EGU2007-A-01481; CR135-1TU5P-0059
Flocco, D.; Feltham, D. L.
A continuum model of melt pond evolution on Arctic sea ice

A0060; EGU2007-A-03902; CR135-1TU5P-0060
Scott, F.; Feltham, D.
A model of the evolution of Arctic sea ice melt ponds and surface topography

A0061; EGU2007-A-02670; CR135-1TU5P-0061
Walkington, I. A.; Maqueda, M. M.; Willmott, A. J.
A 1-D polynya model using shock techniques

A0062; EGU2007-A-01318; CR135-1TU5P-0062
Esau, I.
Turbulence-resolving simulations for circulations near ice edge

A0063; EGU2007-A-05716; CR135-1TU5P-0063
Muzylev, S.V.
Influence of internal waves on deflections of sea ice cover

A0064; EGU2007-A-01018; CR135-1TU5P-0064
Kohout, A.L.; Meylan, M.H.
Wave damping and floe breakup in the MIZ

Geochemistry, Mineralogy, Petrology & Volcanology

GMPV1 Understanding physical and chemical signals from active volcanoes

Convener: Neuberg, J.
Co-Convener(s): Burton, M.
Lecture Room 21 (O)
Chairperson: BURTON, M.

13:30–13:45; EGU2007-A-04475; GMPV1-1TU3O-001
Neuberg, J.; Green, D.; Collombet, M.; Hammer, C.
Volcanic seismicity: towards a magma flow meter

13:45–14:00; EGU2007-A-04480; GMPV1-1TU3O-002
Smith, P.; Neuberg, J.
Linking low-frequency events to conduit properties

14:00–14:15; EGU2007-A-09720; GMPV1-1TU3O-003
Lokmer, I.; Di Lieto, B.; Saccorotti, G.; Bean, C.J.
Temporal evolution of long-period activity at Mt. Etna – no apparent link with the 2004 eruption

14:15–14:30; EGU2007-A-04870; GMPV1-1TU3O-004
Longo, A.; Papale, P.; Vassalli, M.; Saccorotti, G.; Barbato, D.; Barsanti, M.
Gravity, deformation, and seismic signals due to pre-eruptive magma chamber / volcanic conduit dynamics

14:30–14:45; EGU2007-A-00453; GMPV1-1TU3O-005
de Zeeuw-van Dalfsen, E.; Jaupart, C.; Pinel, V.
Using a flow model to explain geodetic data, preliminary results from Eyafjallajökull, Iceland

14:45–15:00; EGU2007-A-04511; GMPV1-1TU3O-006
Westerhaus, M.; Altmann, J.; Heidbach, O.
Externally driven Tilt Anomalies faking internal Pressure Changes – a 3D-Finite Element Study for Merapi Volcano

15:00 COFFEE BREAK

Chairperson: NEUBERG, J.

15:30–15:45; EGU2007-A-09499; GMPV1-1TU4O-001
Moretti, R.; Aiuppa, A.; Papale, P.
Pressurization vs. flushing in the modelling of volcanic gases at basaltic volcanoes

15:45–16:00; EGU2007-A-05575; GMPV1-1TU4O-002
Burton, M.; Di Grazia, G.; La Spina, A.
Is gas percolation during quiescent degassing a source of volcanic tremor?

16:00–16:15; EGU2007-A-09778; GMPV1-1TU4O-003
Cigolini, C.; Ripepe, M.; **Laiolo, M.;** Coppola, D.; Ulivieri, G.
New developments in radon monitoring at Stromboli volcano (Italy)

16:15–16:30; EGU2007-A-07280; GMPV1-1TU4O-004
Gerst, A.; Hort, M.; Johnson, J.B.; Kyle, P.R.
The first second of a strombolian Eruption: Doppler Radar and Infrasound Observations at Erebus Volcano, Antarctica

16:30–16:45; EGU2007-A-11090; GMPV1-1TU4O-005
Loughlin, S.C.; Christopher, T.; Luckett, R.; Jones, L.; Baptie, B.
Large volume dome collapse at the Soufrière Hills Volcano, Montserrat, 20 May 2006

16:45–17:00; EGU2007-A-11097; GMPV1-1TU4O-006
Ryan, G.; **Loughlin, S. C.;** Strutt, M.; Luckett, R.; Jones, L.; Devine, J. D.
Onset of the third episode of lava dome growth at Soufriere Hills Volcano, Montserrat (solicited)

17:00 END OF SESSION

GMPV1 Understanding physical and chemical signals from active volcanoes – Posters

Convener: Neuberg, J.
Co-Convener(s): Burton, M.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 08:30–10:00
Poster Area Hall A
Chairperson: N.N.

A0065; EGU2007-A-04426; GMPV1-1TU1P-0065
Vinciguerra, S.; Caricchi, L.; Burlini, L.
Melt flow in a conduit and seismic signals time evolution: a laboratory study

A0066; EGU2007-A-04465; GMPV1-1TU1P-0066
Neuberg, J.; Smith, P.; Green, D.; Collombet, M.; Collier, L.; Hammer, C.; Key, J.
From seismograms to magma: Interpreting broadband seismic signals in terms of magmatic processes

A0067; EGU2007-A-03970; GMPV1-1TU1P-0067
Cesca, S.; Battaglia, J.; Dahm, T.; Tesser, E.
Effects of topography and crustal heterogeneities on the inversion of long period volcanic sources

A0068; EGU2007-A-02005; GMPV1-1TU1P-0068
Zuccarello, L.; Saccorotti, G.; Bean, C.; Lokmer, I.; Patané, D.
Very Long Period (VLP) seismic signals recorded at Mount Etna Volcano, Italy

A0069; EGU2007-A-01829; GMPV1-1TU1P-0069
Harrington, R. M.; Brodsky, E. E.
Volcanic Hybrid Earthquakes that are Brittle Failure Events

A0070; EGU2007-A-08859; GMPV1-1TU1P-0070
Ottomoller, L.
Seismic hybrid swarm precursory to a major lava dome collapse: 9-12 July 2003, Soufriere Hills Volcano, Montserrat

A0071; EGU2007-A-02053; GMPV1-1TU1P-0071
Nunez-Cornu, F.; Vargas-Bracamontes, D.; Suarez-Plascencia, C.
Seismic study of the explosive events of Colima Volcano, Mexico.

A0072; EGU2007-A-08012; GMPV1-1TU1P-0072
Aloisi, M.; Camacho, A.; Charco, M.; Fernandez, J.; Gambino, S.; Mattia, M.; Puglisi, G.
Spatiotemporal modeling of the dike propagation forerunning the etna july 2001 eruption

A0073; EGU2007-A-10628; GMPV1-1TU1P-0073
Martini, F.; Riedel, C.; Viveiros, F.; Bean, C.J.; Saccorotti, G.; Silva, R.; Wallenstein, N.
Multiply scattered waves as a tool for better understanding seismic and chemical activity at Fogo volcano, São Miguel, Azores

Mon

Tue

Wed

Thu

Fri

A0074; EGU2007-A-09291; GMPV1-1TU1P-0074
Ricci, T.; Revil, A.; Finizola, A.; Piscitelli, S.; Rizzo, E.; Barde Cabusson, S.; Bennati, L.; Crespy, A.; Roulleau, E.; Suski, B.; the S&V Team
 Hydrogeological insights at Stromboli volcano and La Fossa cone (Aeolian Islands, Italy) from geoelectrical investigations coupled with CO₂ soil degassing and temperature measurements

A0075; EGU2007-A-05818; GMPV1-1TU1P-0075
Yamamoto, M.; Ohkura, T.; Ikeda, S.; Kaneshima, S.; Kawakatsu, H.
 Long-term change of volcanic fluid system beneath Aso volcano, Japan as inferred from seismological observations

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 10:30–12:00

GMPV Poster Area
 Chairperson: N.N.

GMPV3 Phase changes, magma properties, and magmatic and eruptive processes

Convener: De Campos, C.
 Co-Convener(s): Longo, A.
 Lecture Room 21 (O)
 Chairperson: DE CAMPOS, C.

8:30–8:45; EGU2007-A-00473; GMPV3-1TU1O-001
Bertolino, S.; Cigolini, C.
 Viscosity experiments on basaltic and andesitic melts

8:45–9:15; EGU2007-A-07122; GMPV3-1TU1O-002
Rust, A.C.; Balmforth, N.J.; Jellinek, A.M.
 Effects of crystals on the rheology and convection of magma (solicited)

9:15–9:30; EGU2007-A-01838; GMPV3-1TU1O-003
Caricchi, L.; Giordano, D.; Burlini, L.; Ulmer, P.; Romano, C.; Dingwell, D.B.
 Rheological Behavior of Monte Nuovo Magma (Phlegrean Field, Italy)

9:30–9:45; EGU2007-A-02249; GMPV3-1TU1O-004
Andújar, J.; Costa, F.; Martí, J.
 Sodalite: A pressure indicator in phonolitic magmas

9:45–10:00; EGU2007-A-02926; GMPV3-1TU1O-005
Giordano, D.; Polacci, M.; Longo, A.; Papale, P.; Dingwell, D.B.; Boschi, E.; Kasereka, M.
 Thermo-rheological magma control on the impact of highly fluid lava flows at Mt. Nyiragongo

10:00 COFFEE BREAK

Chairperson: LONGO, A.

10:30–10:45; EGU2007-A-02407; GMPV3-1TU2O-001
Vassalli, M.; Longo, A.; Barbato, D.; Papale, P.; Barsanti, M.
 Numerical simulations of the time-space evolution of convection and mixing of volatile-rich magma in magma chambers and dikes

10:45–11:00; EGU2007-A-05689; GMPV3-1TU2O-002
 Giordano, D.; **Russell, J.K.;** Dingwell, D.B.
 Viscosity of Magmatic Liquids: A model for volcanology (solicited)

11:00–11:15; EGU2007-A-04059; GMPV3-1TU2O-003
Lavallee, Y.; Hess, K-U; Cordonnier, B; Dingwell, DB
 Non-Newtonian rheological behaviour for magmas at arc volcanoes

11:15–11:30; EGU2007-A-04301; GMPV3-1TU2O-004
Collombet, M.; Neuberg, J.
 First steps to include gas loss in 2D magma flow models

11:30–11:45; EGU2007-A-04447; GMPV3-1TU2O-005
Becker, JKB; Bons, PDB
 The rate control of porosity and permeability on melt transport through the crust and mantle

11:45–12:00; EGU2007-A-07103; GMPV3-1TU2O-006
Bayanova, T.; Mitrofanov, F.; Korchagin, A.; Ludden, J.
 Long duration and multiphase plume basic magmatism with Pt-Pd and Cu-Ni ores for the Paleoproterozoic Baltic Shield

12:00 END OF SESSION

GMPV5 Advances in the knowledge of the magmatic and eruptive history of European active volcanoes

Convener: Keller, J.
 Co-Convener(s): Civetta, L.
 Lecture Room 21 (O)
 Chairperson: ORSI, G.

17:30–17:45; EGU2007-A-04351; GMPV5-1TU5O-001
 Kamenetsky, V. A.; **Pompilio, M.;** Metrich, N.; Sobolev, A.V.; Kuzmin, D.; Thomas, R.
 Arrival of extremely volatile-rich high-Mg magmas changes explosivity of Mount Etna

17:45–18:00; EGU2007-A-04368; GMPV5-1TU5O-002
Del Carlo, P.; Pompilio, M.; Di Renzo, V.
 What does it cause plinian and subplinian eruption at Etna? Relationship between magma composition and explosive activity

18:00–18:15; EGU2007-A-03601; GMPV5-1TU5O-003
Gasparini, D.; Armienti, P.; Macera, P.
 Fingerprint of chaos in immobile element geochemistry of Mt. Etna

18:15–18:30; EGU2007-A-04228; GMPV5-1TU5O-004
D'Antonio, M.; Andria, M.; Arienzo, I.; Dallai, L.; de Vita, S.; Orsi, G.; Tonarini, S.; Trecalli, A.; Sansivero, F.
 Sr-O isotope geochemistry and mineral chemistry of recent volcanic rocks from Ischia island (Phlegrean Volcanic District, South Italy): inferences for the nature of the source region and the behaviour of the magmatic system in the past 2.9 ka

18:30–18:45; EGU2007-A-03511; GMPV5-1TU5O-005
Civetta, L.; Arienzo, I.; D'Antonio, M.; Di Renzo, V.; Di Vito, M. A.; Orsi, G.
 The magmatic plumbing system of the Campi Flegrei caldera.

18:45–19:00; EGU2007-A-05997; GMPV5-1TU5O-006
Piochi, M.; Polacci, M.; De Astis, G.; Zanetti, A.; Mangiacapra, A.; Vannucci, R.
 Textures and compositions of pumice and scoria constrain the dynamics of explosive eruptions at Campi Flegrei (Italy)

19:00 END OF SESSION

GMPV5 Advances in the knowledge of the magmatic and eruptive history of European active volcanoes – Posters

Convener: Keller, J.

Co-Convener(s): Civetta, L.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 13:30–15:00

Poster Area Hall A

Chairperson: CIVETTA, LUCIA

A0076; EGU2007-A-03686; GMPV5-1TU3P-0076

Oladottir, B. A.; **Sigmarsson, O.**; Larsen, G.; Thordarson, T.
Katla volcano, Iceland: magma composition, dynamics and eruption frequency from the Holocene tephra layer record

A0077; EGU2007-A-03437; GMPV5-1TU3P-0077

Amado, P.; Aparicio, A.; Garcia, A

Tectonic - volcanism relations in the Santiago rift (Tenerife, Canary Islands, Spain)

A0078; EGU2007-A-02351; GMPV5-1TU3P-0078

Mitchell, N.C.; Beier, C.; Rosin, P.; Quartau, R.; Tempereira, F.

Submarine lava flows around the coasts of Pico Island, Azores

A0079; EGU2007-A-00470; GMPV5-1TU3P-0079

Laiole, M.; Cigolini, C.; Coppola, D.; Bertolino, S.

Thermobarometric constrain for the magma ascent during the April 5, 2003 eruption: new insight on the eruptive mechanism of the paroxysmal events at Stromboli volcano

A0080; EGU2007-A-02621; GMPV5-1TU3P-0080

Barberi, G.; Zhang, H.; Scarfi, L.; Cocina, O.; Castellano, M.; Chiarabba, C.; Patanè, D.

Crustal evidence of a low velocity Vp and Vs volume beneath Stromboli Volcano, Italy

A0081; EGU2007-A-03431; GMPV5-1TU3P-0081

Martinez-Arévalo, C.; **Musumeci, C.**; Barberi, G.; De Gori, P.; Patanè, D.

Receiver Function Analysis at Stromboli Volcano (Italy)

A0082; EGU2007-A-04796; GMPV5-1TU3P-0082

Giordano, D.; Ardia, P.; Mangiacapra, A.; Romano, C.; Dingwell, D.B.; Cioni, R.; Schmidt, M.W.; Hess, KU

The rheology of Vesuvius magmas

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 15:30–17:00

Poster Area Hall A

Chairperson: KELLER, J.

A0083; EGU2007-A-02630; GMPV5-1TU4P-0083

De Gori, P.; **Martínez-Arévalo, C.**; Giampiccolo, E.; Patanè, D.; Chiarabba, C.

High-resolution compressional wave attenuation tomography during the Mt. Etna 2002–2003 flank eruption

A0084; EGU2007-A-01786; GMPV5-1TU4P-0084

Monteiller, V.; Got, J.-L.; Patane, D.; Barberi, G.; Cocina, O.

Double-difference tomography at Mt Etna volcano

A0085; EGU2007-A-09701; GMPV5-1TU4P-0085

Norini, G.; Bellotti, F.; Branca, S.; Coltelli, M.; De Beni, E.; Groppelli, G.; Lentini, F.

Spatial database for the new geological map of Mount Etna (Italy)

A0086; EGU2007-A-10087; GMPV5-1TU4P-0086

Bobrowski, N.; Giuffrida, G.B.; Vita, F.; Sollami, A.; Inguaggiato, S.

Bromine and sulfur studies during the Mt. Etna 2006 eruption

A0087; EGU2007-A-05747; GMPV5-1TU4P-0087

Mangiacapra, A.; Rutherford, M.; Civetta, L.

Pre-eruption conditions of Minopoli2 shoshonitic magma from melt inclusions and experimental studies

A0088; EGU2007-A-04062; GMPV5-1TU4P-0088

Di Renzo, V.; de Lorenzo, S.; Civetta, L.; Filippucci, M.; Gasparini, P.; Orsi, G.

A conductive thermal model of the Campi Flegrei magmatic system.

GMPV18 The Role of Accessory Minerals in Metamorphic and Igneous Processes

Convener: Harlov, D.

Co-Convener(s): Finger, F.

Lecture Room 20 (N)

Chairperson: HARLOV, D.

8:30–8:45; EGU2007-A-04387; GMPV18-1TU1O-001

Tropper, P.

Titanite thermobarometry in metamorphic rocks: the influence of titanite activity models in the system CaTiSiO₄O - CaAlSiO₄F on phase equilibrium calculations in high-P rocks (solicited)

8:45–9:00; EGU2007-A-09618; GMPV18-1TU1O-002

Thöni, M.; Miller, Ch.; Postl, W.; Weißensteiner, G.

Sm-Nd partitioning between garnet, feldspar and high-REE accessory minerals (Ap, Xtm, Mnz): new constraints on timing and duration of the “Permian-Triassic event” (Eastern Alps)

9:00–9:15; EGU2007-A-06248; GMPV18-1TU1O-003

Harlov, D.E.; Hansen, E.C.

Trends in Phosphate and Silicate Mineral Chemistry Across a Section of Archean Crust, Tamil Nadu, South India: The Role of Fluids In Regional Granulite-Facies Metamorphism

9:15–9:30; EGU2007-A-06889; GMPV18-1TU1O-004

Putnis, A.; Janssen, A.; Geisler, T.; Putnis, C.V.

The mechanism of hydrothermal alteration of ilmenite.

9:30–9:45; EGU2007-A-01748; GMPV18-1TU1O-005

Hovis, G.; Harlov, D.; Hahn, A.; Steigert, H.

Enthalpies and volumes of F-Cl mixing in fluorapatite - chlorapatite crystalline solutions (solicited)

9:45–10:00; EGU2007-A-08100; GMPV18-1TU1O-006

Greenwood, J. P.; Itoh, S.; Sakamoto, N.; Vicenzi, E. P.; Yurimoto, H.

Isotopography of hydrogen in apatite of Martian meteorites: Constraints on their petrogenesis and the history of water on Mars

10:00 COFFEE BREAK

Chairperson: FINGER, F.

10:30–10:45; EGU2007-A-00100; GMPV18-1TU2O-001

Budzyñ, B.; Hetherington, C.J.; Williams, M.L.; Jercinovic, M.J.; Michalik, M.

Monazite stability as a function of the silicate mineral assemblage in the presence of fluid

10:45–11:00; EGU2007-A-06132; GMPV18-1TU2O-002

Montel, JM.; Razafimhatratra, D.; de Parseval, P.; Seydoux-Guillaume, AM; Ralison, B

The giant monazites occurrence in Manangotry (Madagascar)

11:00–11:15; EGU2007-A-06922; GMPV18-1TU2O-003
Gardés, E.; Montel, J.-M.; Seydoux-Guillaume, A.-M.; Wirth, R.
 Pb diffusion in monazite: New constraints from the experimental study of Pb²⁺ <-> Ca²⁺ interdiffusion

11:15–11:30; EGU2007-A-10624; GMPV18-1TU2O-004
Williams, M.; Jercinovic, M.; Dumond, G.; Hetherington, C.
 Monazite petrogenesis and geochronology by electron microprobe: analytical challenges and applications for dating tectonic processes (solicited)

11:30–11:45; EGU2007-A-08582; GMPV18-1TU2O-005
Janots, E.; Engi, M.; Berger, A.; Rubatto, D.; Gregory, C.
 Texture, chemistry and age of monazite and allanite in the northern Central Alps

11:45–12:00; EGU2007-A-00640; GMPV18-1TU2O-006
Kelsey, D.; Clark, C.; Hand, M.
 Thermobarometric modelling of zircon and monazite growth in melt-bearing systems

12:00 END OF SESSION

GMPV18 The Role of Accessory Minerals in Metamorphic and Igneous Processes – Posters

Convener: Harlov, D.
 Co-Convener(s): Finger, F.
 Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 13:30–15:00
 Poster Area Hall A
 Chairperson: N.N.

A0089; EGU2007-A-00963; GMPV18-1TU3P-0089
Konilov, A.N.; Somin, M.L.
 A record of Late Paleozoic regional metamorphism in the gneiss-migmatite core complex of the Great Caucasus

A0090; EGU2007-A-04398; GMPV18-1TU3P-0090
 Wyhlidal, S.; Thöny, W.F.; **Tropper, P.;** Mair, V.
 Thermobarometry of contact metamorphosed pelitic rocks at the southern rim of the Permian Brixen Granodiorite: testing pseudosections versus petrographic evidence

A0091; EGU2007-A-07272; GMPV18-1TU3P-0091
 Nocker, C.; **Tropper, P.;** Mair, V.
 The occurrence of clino-ferroholmquistite in two metapelite samples from the Ortler-Campo crystalline complex (South Tyrol/ Italy): constraints on the P-stability of minerals of the clinoholmquistite group

A0092; EGU2007-A-06643; GMPV18-1TU3P-0092
Semytkiska, N.; Ulmer, P.; Sweeney, R.
 Experimental Investigation of Oxide Silicate Relations in the System Fe-Mg-Ti-Si-Cr-O as a Function of P-T and Bulk Composition

A0093; EGU2007-A-08264; GMPV18-1TU3P-0093
Broska, I.; Ondrejka, M.; Zahradnik, L.
 Distribution and evolution of accessory Fe-Ti oxides in the granitoids

A0094; EGU2007-A-03272; GMPV18-1TU3P-0094
Nijland, T.G.; Harlov, D.E.
 Selective joint-controlled oxide leaching in greenschist facies phyllites, Otré, Ardennes, Belgium

A0095; EGU2007-A-01356; GMPV18-1TU3P-0095
Sorokhtina, N.V.; Kogarko, L.N.; Senin, V.G.; Zaitsev, V.A.
 Thorium in the pyrochlores of continental and oceanic carbonatites

A0096; EGU2007-A-09279; GMPV18-1TU3P-0096
 Kryza, R.; Charnley, N.; Montel, J.-M.; Lvov, B.K.; Sveshnikov, K.I.; Voinov, A.S.
 Precambrian granites of Karelia and Ukraine: preliminary monazite EMP ages

A0097; EGU2007-A-04410; GMPV18-1TU3P-0097
 Thöny, W.F.; Wyhlidal, S.; **Tropper, P.;** Krenn, E.; Finger, F.
 EMPA-dating of monazites from the Brixen granodiorite contact aureole: correlating age data and petrographical evidence to decipher the polymetamorphic history of the adjacent northern margin of the Southalpine quartzphyllite basement

A0098; EGU2007-A-09146; GMPV18-1TU3P-0098
Uher, P.; Ondrejka, M.; Broska, I.
 S and As in accessory monazite: a role of “clinoanhydrite” and gasparite substitution

A0099; EGU2007-A-07599; GMPV18-1TU3P-0099
Skridlaite, G.; Baginski, B.; Whitehouse, M.
 New evidence for c.1.7-1.6 Ga metamorphism in western East European Craton from zircon and monazite study

A0100; EGU2007-A-08639; GMPV18-1TU3P-0100
Guillot, F.; Lasalle, S.
 Zircon growth: insights from shape studies

A0101; EGU2007-A-04629; GMPV18-1TU3P-0101
 Kryza, R.; Larionov, A.N.
 Zircon characteristics controlled by magma type and shearing: SHRIMP data from Ordovician metavolcanic rocks of the Kaczawa Mountains (Polish Sudetes)

A0102; EGU2007-A-09378; GMPV18-1TU3P-0102
Szabó, Zs.; Harangi, Sz.
 Zircons, key tools to study piroclastic rocks: a case study from Harsány, Bükkalja, North-Hungary

Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 15:30–17:00

Poster Area Hall A
 Chairperson: N.N.

A0103; EGU2007-A-09674; GMPV18-1TU4P-0103
Malitch, K.N.; Khalenev, V.O.; Presnyakov, S.L.; Petrov, O.V.
 Zircons from the ore-bearing Talnakh intrusion (Russia): a combined morphological, compositional and U-Pb isotopic study

A0104; EGU2007-A-10509; GMPV18-1TU4P-0104
Belyatsky, B.; Rodionov, N.; Savva, E.; Leitchenkov, G.
 Zircons from mafic dykes as a tool for understanding of composition and structure of continental crust: on the example of Mesozoic olivine dolerite dykes, Schirmacher oasis, Antarctica

Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 17:30–19:00

GMPV Poster Area
 Chairperson: N.N.

GMPV20/BG5.10 Mineral properties and behaviour: the European Mineral Sciences Initiative (EuroMinSci) open session (including the EMU Research Excellence Medal Lecture) (co-organized by BG) (co-listed in CR, NP, SSP)

Convener: Winkler, B.
 Co-Convener(s): Avril, B.
 Lecture Room 20 (N)
 Chairperson: WINKLER, B.

13:30–13:45; EGU2007-A-09739; GMPV20/BG5.10-1TU3O-001

Winkler, B.; Friedrich, A.; Wilson, D.; Haussühl, E.; Refson, K.; Probert, M.; Gale, J.; Milman, V.
Structure and properties of hydrous minerals from experiment and computation

13:45–14:00; EGU2007-A-02700; GMPV20/BG5.10-1TU3O-002

Calvet, M.; Margerin, L.

Calculation of effective seismic properties of untextured crystal aggregates and application to inner core crystallisation

14:00–14:15; EGU2007-A-04927; GMPV20/BG5.10-1TU3O-003

Fabian, K.; McEnroe, S.; Robinson, P.

Lamellar magnetism carries the natural remanent magnetization in ilmenohematite from Modum, Norway

14:15–14:30; EGU2007-A-06070; GMPV20/BG5.10-1TU3O-004

Kantor, I.; Dubrovinsky, L.; McCammon, C.

Pressure-induced spin crossover in ferropericlaite: an alternative concept.

14:30–14:45; EGU2007-A-08322; GMPV20/BG5.10-1TU3O-005

Friedrich, A.; Haussühl, E.; Wilson, D.J.; Boehler, R.; Morgenroth, W.; Winkler, B.; Juarez-Arellano, E.A.; Refson, K.; Milman, V.

Structure and properties of diaspore, $\text{AlO}(\text{OH})$, up to 50 GPa from experiment and theory

14:45–15:00; EGU2007-A-09301; GMPV20/BG5.10-1TU3O-006

Walte, N.P.; Heidelberg, F.; Rubie, D.C.; Frost, D.J.

LPO and Perovskite \rightarrow post-Perovskite phase transition of CaIrO_3 during deformation with the d-DIA: Implications for the D'' layer

15:00 COFFEE BREAK

Chairperson: AVRIL, B.

15:30–16:00; EGU2007-A-03215; GMPV20/BG5.10-1TU4O-001

Bindi, L.

From the invalidity of the law of rational indices to the concept of superspace: A crystallographic excursion in the modulated world of minerals (solicited)

16:00–16:15; EGU2007-A-06395; GMPV20/BG5.10-1TU4O-002

Olsen, L.A.; Balic-Zunic, T.; Makovicky, E.

From lillianite to $\text{Pb}_3\text{Bi}_2\text{S}_6$: a crystal chemical study of $\text{Pb}_3\text{Bi}_2\text{S}_6$ at high pressure

16:15–16:30; EGU2007-A-02268; GMPV20/BG5.10-1TU4O-003

Cuif, J.P.; Dauphin, Y.; Nouet, J.

Nano-crystallization within chemically active glyco-protein hydrogel layers: a possible origin for the long-standing vital effect enigma in the Ca-carbonate skeletons.

16:30–16:45; EGU2007-A-02757; GMPV20/BG5.10-1TU4O-004

Blanchard, M.; Wright, K.

Incorporation modes of hydrogen in ringwoodite: a DFT study

16:45–17:00; EGU2007-A-07625; GMPV20/BG5.10-1TU4O-005

Tatham, D.; Prior, D.

In situ heating and deformation experiments in the SEM

17:00 END OF SESSION

GMPV20/BG5.10 Mineral properties and behaviour: the European Mineral Sciences Initiative (EuroMinSci) open session (including the EMU Research Excellence Medal Lecture) (co-organized by BG) (co-listed in CR, NP, SSP) – Posters

Convener: Winkler, B.

Co-Convener(s): Avril, B.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 08:30–10:00

Poster Area Hall A

Chairperson: N.N.

A0105; EGU2007-A-10910; GMPV20/BG5.10-1TU1P-0105

Avril, B.

EuroMinSci Programme - An overview

A0106; EGU2007-A-00415; GMPV20/BG5.10-1TU1P-0106

Perchuk, A.; Schertl, H-P.; Burchard, M.; Maresch, W.V.; Gerya, T.V.; Bernhardt, H-J.

Diffusivities of major divalent Cations in Gem quality and chemically heterogeneous Garnets: multi-couple Experiments

A0107; EGU2007-A-00274; GMPV20/BG5.10-1TU1P-0107

Perchuk, A.; Vidal, O.

Diffusion couple Experiments in Garnets: Effect of grain boundary Diffusion owing to 2D numerical Modeling

A0108; EGU2007-A-00626; GMPV20/BG5.10-1TU1P-0108

Prokof'ev, V.; Baksheev, I.; Zorina, L.; Kryazhev, S.

Conditions of tourmalinization formations Eastern Transbaykalia gold deposits, related with mesozoic riftogenic volcanism (Russia)

A0109; EGU2007-A-04935; GMPV20/BG5.10-1TU1P-0109

Fabian, K.; Shcherbakov, V. P.; McEnroe, S.; Robinson, P.

A mean field model of the magnetic structure in hematite-ilmenite solid solutions and exsolved nanostructures of ilmenite and hematite

A0110; EGU2007-A-05764; GMPV20/BG5.10-1TU1P-0110

Méheut, M.; Lazzeri, M.; Balan, E.; Mauri, F.

Prediction of stable isotopes fractionation by first-principles methods.

A0111; EGU2007-A-03378; GMPV20/BG5.10-1TU1P-0111

Deguen, R.; Alboussière, T.; Brito, D.; La Rizza, P.; Masson, J.-P.

Ultrasonic monitoring of dendritic solidification under a pressure gradient

A0112; EGU2007-A-04422; GMPV20/BG5.10-1TU1P-0112

Becker, JKB; Bons, PDB

A new approach to 3D front-tracking simulation of grain growth

A0113; EGU2007-A-08136; GMPV20/BG5.10-1TU1P-0113

Pennock, G.M.; Drury, M.R.

The effect of deformation on subgrain misorientations

A0114; EGU2007-A-02273; GMPV20/BG5.10-1TU1P-0114

Nouet, J.; Cuif, J.P.; Pradel, P.
Differential crystallization of high-magnesian calcites in the cortical spicules and axes of the red coral (*Corallium rubrum*) correlated to the biochemical compositions of their mineralizing matrices.

A0115; EGU2007-A-04104; GMPV20/BG5.10-1TU1P-0115

Nehrke, G.; Van Cappellen, P.; Bijma, J.
Calcite growth rate and solution stoichiometry, implications for biomineralizations.

A0116; EGU2007-A-02261; GMPV20/BG5.10-1TU1P-0116

Dauphin, Y.; Cusack, M.; Ortlieb, L.
Nanogranules in carbonate skeletons: a universal scheme?

A0117; EGU2007-A-04978; GMPV20/BG5.10-1TU1P-0117

Valcke, S.L.A.; Drury, M.R.; Pennock, G.M.; De Bresser, J.H.P.
Quantifying heterogeneous microstructures: core and mantle subgrains in deformed calcite

A0118; EGU2007-A-04043; GMPV20/BG5.10-1TU1P-0118

Griera, A.; Jessell, M. W.; Evans, L.
Simulation of subgrain scale deformation and its effect on recrystallisation

A0119; EGU2007-A-02410; GMPV20/BG5.10-1TU1P-0119

Brigatti, M.F.; Malferrari, D.; Poppi, M.; Mottana, A.; Cibir, G.; Marcelli, A.; Cinque, G.
Interlayer potassium and its surrounding in micas: Crystal chemical modeling and XANES spectroscopy

A0120; EGU2007-A-03973; GMPV20/BG5.10-1TU1P-0120

Dubacq, B.; Vidal, O.; Lewin, E.; Vieillard, P.
Prediction of enthalpy of formation of minerals: application to solid solutions and low-temperature compounds

A0121; EGU2007-A-00701; GMPV20/BG5.10-1TU1P-0121

Yudintsev, S.; Livshits, T.; Omelianenko, B.
Examination of natural and synthetic minerals as matrices for actinide waste immobilization

A0122; EGU2007-A-03652; GMPV20/BG5.10-1TU1P-0122

Sendir, H.; Sarýiz, K.
Geochemistry and mineralogy of the chromitites and their platinum group minerals in the Karaburhan (Sivrihisar-Eskişehir-Turkey) region

A0123; EGU2007-A-07426; GMPV20/BG5.10-1TU1P-0123

Krivolutskaya, N.A.; Sobolev, A.V.; Kuzmin, D.V.; Svirskaya, N.M.
Olivines composition data to the origin of the Noril'sk deposits (Siberian trap province, Russia)

A0124; EGU2007-A-04111; GMPV20/BG5.10-1TU1P-0124

Zarrinkoub, Dr
Antimony – gold mineralisation and structural controls in south Nehbandan, East of Iran

A0125; EGU2007-A-09037; GMPV20/BG5.10-1TU1P-0125

Zareisahamieh, R
Mineralogical and Geochemical Characteristics of Tafresh(Central Iran)

A0126; EGU2007-A-10769; GMPV20/BG5.10-1TU1P-0126

Seaman, S.; Helfrich, E.; Dyar, D.; Smith, R.
Synchrotron FTIR analysis of water concentration variations in skeletal sanidine crystals hosted by spherulites in the Hell's Gate rhyolitic lava flow, southern Arizona, USA

A0127; EGU2007-A-06578; GMPV20/BG5.10-1TU1P-0127

Hamann, I.; Azuma, N.; Weikusat, Ch.
Evolution of ice crystal microstructures during creep experiments

A0128; EGU2007-A-05488; GMPV20/BG5.10-1TU1P-0128

Salje, E.K.H
Fast Ionic Transport along Interfaces in Minerals

A0129; EGU2007-A-11719; GMPV20/BG5.10-1TU1P-0129

Haghnazar, M.; Esmaeily, E.; Kosari, A.
Electron microprobe and mineralogy evidence for the genesis of Scheelite and Tourmaline at the Nezamabad area, western Iran

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 10:30–12:00

GMPV Poster Area
Chairperson: N.N.

Geodesy

G1 The impact of technique errors on reference frame accuracy and stability

Convener: Ray, J.
Co-Convener(s): Altamimi, Z.
Lecture Room 6 (K)
Chairperson: N.N.

8:30–8:45; EGU2007-A-11408; G1-1TU1O-001

Johnston, G.
Enhancement of Australia's National Geospatial Reference System (solicited)

8:45–9:00; EGU2007-A-01574; G1-1TU1O-002

Titov, O.; Gulyaev, S.
Australian - New Zealand Geodetic VLBI Network Project

9:00–9:15; EGU2007-A-02706; G1-1TU1O-003

Sarti, P.; Vittuari, L.; Abbondanza, C.; Dawson, J.; Johnston, G.; Negusini, M.; Montaguti, S.
A review about local ties and eccentricity vectors: strategies, results, potentials and open issues (solicited)

9:15–9:30; EGU2007-A-03202; G1-1TU1O-004

Altamimi, Z.
Long-term stability of the ITRF origin and scale

9:30–9:45; EGU2007-A-01575; G1-1TU1O-005

Dong, D.; Fang, P.
ITRF origin: Diagnosis of Current Realization (solicited)

9:45–10:00; EGU2007-A-04740; G1-1TU1O-006

Wu, X.
Geocenter motion and reference frame – geophysical and geodetic perspectives (solicited)

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-08161; G1-1TU2O-001

Collilieux, X.; Coulot, D.; Altamimi, Z.
Coordinate time series comparison. Application to
ITRF2005 height residuals time series.

10:45–11:00; EGU2007-A-04963; G1-1TU2O-002

Pavlis, E. C.; Luceri, V.
Reanalysis and extension of the ILRS weekly products

11:00–11:15; EGU2007-A-09227; G1-1TU2O-003

Devoti, R.; Bianco, G.; Luceri, V.; Sciarretta, C.
ITRF2005: evaluation of its consistency

11:15–11:30; EGU2007-A-10809; G1-1TU2O-004

Ries, J
Satellite laser ranging and the terrestrial reference frame;
principal sources of uncertainty in the determination of the
scale. (solicited)

11:30–11:45; EGU2007-A-03874; G1-1TU2O-005

Koenig, R.; Neumayer, K.H.; Vei, M.
Some Effects of Data Handling and Background Models on
the SLR Dynamical and Geometrical Reference Frame

11:45–12:00; EGU2007-A-07720; G1-1TU2O-006

Appleby, G.; Otsubo, T.; Gibbs, P.
Further improvements in understanding subtle systematic
effects in laser ranging data. (solicited)

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2007-A-02494; G1-1TU3O-001

Gendt, G.; Fang, P.; Ferland, R.; Ray, J.; Romero, I.;
Steigenberger, P.
IGS Activities for Improving its Contribution to ITRF
(solicited)

13:45–14:00; EGU2007-A-04496; G1-1TU3O-002

Herring, T.
Impact of absolute phase center models on GPS reference
frames (solicited)

14:00–14:15; EGU2007-A-03911; G1-1TU3O-003

Urschl, C.; Beutler, G.; Gurtner, W.; Hugentobler, U.;
Ostini, L.; Ploner, M.; Schaer, S.
Assessing the quality of GNSS orbit models using SLR
(solicited)

14:15–14:30; EGU2007-A-03405; G1-1TU3O-004

King, M.; Watson, C.; Penna, N.
Sub-daily signals in GPS observations and their effect at
semi-annual and annual periods

14:30–14:45; EGU2007-A-04545; G1-1TU3O-005

MacMillan, D
Determination of the reference frame scale with VLBI
(solicited)

14:45–15:00; EGU2007-A-10793; G1-1TU3O-006

Bos, M.S.; Fernandes, R.M.S.; van Dam, T.; Bastos, L.
Modeling atmospheric loading using BLQ files

15:00 END OF SESSION

G1 The impact of technique errors on reference frame accuracy and stability – Posters

Convener: Ray, J.

Co-Convener(s): Altamimi, Z.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0295; EGU2007-A-04727; G1-1TU5P-0295

Wooden, W.; Kosek, W.; vanDam, T.
IERS Working Group on Prediction: Survey Results

XY0296; EGU2007-A-04315; G1-1TU5P-0296

Luzum, B.; Wooden, W.; McCarthy, D.; Schuh, H.;
Kosek, W.; Kalarus, M.
Ensemble Prediction for Earth Orientation Parameters

XY0297; EGU2007-A-04802; G1-1TU5P-0297

Kosek, W.; Popinski, W.; Rzeszotko, A.
Influence of irregular oscillations in the Earth orientation
parameters on their prediction errors

XY0298; EGU2007-A-09092; G1-1TU5P-0298

Petit, G.; Luzum, B.
Evolution of IERS Conventions models

XY0299; EGU2007-A-04432; G1-1TU5P-0299

Abbondanza, C.; Negusini, M.; **Sarti, P.;** Vittuari, L.
Temporal evolution of local tie vectors at Medicina's obser-
vatory mingling terrestrial and GPS observations

XY0300; EGU2007-A-04934; G1-1TU5P-0300

Pavlis, E. C.; Ries, J. C.; MacMillan, D. S.; Kuzmich-
Cieslak, M.; Ma, C.; Rowlands, D. D
Design of next generation global geodetic networks to
support GGOS

XY0301; EGU2007-A-06917; G1-1TU5P-0301

Angermann, D.; Drewes, H.; Kruegel, M.; Meisel, B.;
Gerstl, M.
The effect of different ITRF computation strategies

XY0302; EGU2007-A-07143; G1-1TU5P-0302

Legrand, J.; Altamimi, Z.; Jamet, O
Explicit application of the No-Net-Rotation Condition over
an interpolated ITRF2005 velocity field using least squares
collocation method

XY0303; EGU2007-A-07292; G1-1TU5P-0303

Collilieux, X.; Garayt, B.; Altamimi, Z.; Cannelle, B.;
Chatillon, J.; Halard, S.; Rugi, T.; Thauvin, X.
A new ITRF web site based on GIS application

XY0304; EGU2007-A-08134; G1-1TU5P-0304

Collilieux, X.; Coulot, D.; Berio, P.; Altamimi, Z.
What could explain the relative scale bias estimated between
SLR and VLBI solutions used in the ITRF2005 analysis?

XY0305; EGU2007-A-07027; G1-1TU5P-0305

Coulot, D.; Berio, P.; Féraud, D.; Laurain, O.; Exertier, P.
Satellite Laser Ranging biases and Terrestrial Reference
Frame scale factor

XY0306; EGU2007-A-08366; G1-1TU5P-0306

Gambis, D.; Altamimi, Z.; Ray, J
Maintenance of the IERS EOP and ITRF2005 Consistency

XY0307; EGU2007-A-08658; G1-1TU5P-0307

Gambis, D.; Biancale, R.; Bourda, G.; Loyer, S.; Soudarin, L.;
Deleflie, F
Comparison of GRGS EOP+TRF combined solution to
intra-technique combinations

XY0308; EGU2007-A-09823; G1-1TU5P-0308
Koenig, D.; Koenig, R.; Neumayer, K.H.; Rothacher, M.
 Geodetic Earth System Parameters from
 GPS/CHAMP/GRACE Integrated Processing

XY0309; EGU2007-A-08495; G1-1TU5P-0309
Appleby, G.; Wilkinson, M.; Williams, S.; Ziebart, M.;
 Smith, V.
 Stability of the Herstmonceux space geodetic site from
 multi-technique analyses.

XY0310; EGU2007-A-10009; G1-1TU5P-0310
Dunn, P.; Matsumoto, H.; Torrence, M.
 Vertical motion at Laser Observatories

XY0311; EGU2007-A-04420; G1-1TU5P-0311
 Montaguti, S.; **Sarti, P.;** Vittuari, L.
 Gravitational deformations of the Medicina VLBI dish

XY0312; EGU2007-A-04590; G1-1TU5P-0312
Gipson, J
 Improved VLBI station position and EOP estimates by
 Accounting for station dependent noise

XY0313; EGU2007-A-06028; G1-1TU5P-0313
Wresnik, J.; Böhm, J.; Schuh, H.
 Monte Carlo simulations for VLBI analysis

XY0314; EGU2007-A-09578; G1-1TU5P-0314
Mendes Cerveira, P.J.; Heinkelmann, R.; Weber, R.;
 Schuh, H.
 Associativity in the datum definition of VLBI analysis and
 its implication on the terrestrial reference frame

XY0315; EGU2007-A-06586; G1-1TU5P-0315
Ostini, L.; Beutler, G.; Dach, R.; Hugentobler, U.;
 Ploner, M.; Schaer, S.; Urschl, C.
 Near-seasonal periods in GNSS station time series

XY0316; EGU2007-A-01747; G1-1TU5P-0316
Vennebusch, M.
 Singular Value Decomposition and Cluster Analysis as re-
 gression diagnostics tools for geodetic adjustment problems

XY0317; EGU2007-A-02183; G1-1TU5P-0317
Kheloufi, N.; Gourine, B.; Zeggai, A.; Kahlouche, S; Ait
 ahmed, L.R
 Application of the non linear regression (LS) on the 3D
 and 2D coordinates transformation problem(case of Algeria).

**G7/GD15 From depth to surface: Surface motion and
 deformation forced by crust-mantle processes (co-
 organized by GD) (co-listed in NH)**

Convener: Spakman, W.
 Lecture Room 6 (K)
 Chairperson: N.N.

15:30–15:45; EGU2007-A-01029; G7/GD15-1TU4O-001
Ozener, H.
 Recent Crustal Movements and Results of Studies on The
 North Anatolian Fault System

15:45–16:00; EGU2007-A-04764; G7/GD15-1TU4O-002
Furlong, K.P.; Malservisi, R.
 Lithospheric controls on fault creep: Insights from the San
 Andreas fault system

16:00–16:15; EGU2007-A-03805; G7/GD15-1TU4O-003
Plattner, C.; Malservisi, R.; Dixon, T.; Sella, G.; LaFem-
 ina, P.; Fletcher, J.; Suarez-Vidal, F.
 Kinematic and dynamic implications of terrane transfer, a
 study of Baja California, Mexico

16:15–16:30; EGU2007-A-05713; G7/GD15-1TU4O-004
Ramsay, T.; Pysklywec, R.
 Three-dimensional Edge-Driven Convection and Dynamic
 Topography at the Western Atlantic Passive Margin

16:30–16:45; EGU2007-A-08482; G7/GD15-1TU4O-005
Valera, J. L.; Negredo, A. M.
 Thermo-mechanical numerical modelling of lateral propaga-
 tion of continental lithosphere delamination.

16:45–17:00; EGU2007-A-04721; G7/GD15-1TU4O-006
Heine, C.; Müller, R. D.; Steinberger, B.
 Testing the interplay of eustasy and mantle driven dynamic
 topography in Australia

17:00 END OF SESSION

**G7/GD15 From depth to surface: Surface motion and
 deformation forced by crust-mantle processes (co-
 organized by GD) (co-listed in NH) – Posters**

Convener: Spakman, W.
 Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0318; EGU2007-A-01904; G7/GD15-1TU5P-0318
Moghtased-Azar, K.; W. Grafarend, E
 deformation analysis based on intrinsic geometry

XY0319; EGU2007-A-05314; G7/GD15-1TU5P-0319
Khazaradze, G.; Suriñach, E.; Gárate, J.; Davila, J. M.
 Crustal deformation in eastern Betics from CuaTeNeo GPS
 network

XY0320; EGU2007-A-06122; G7/GD15-1TU5P-0320
Caporali, A.; Massironi, M.
 Hydraulic triggering of earthquakes following the 1976
 M=6.5 Friuli (Northern Italy) and 1998 M=6 Bovec (Slove-
 nia) events

XY0321; EGU2007-A-08183; G7/GD15-1TU5P-0321
Barkin, Yu.V.; Shuanggen, J.
 On variations of the mean radius of the Northern and
 Southern Hemispheres of the Earth

XY0322; EGU2007-A-08242; G7/GD15-1TU5P-0322
Barkin, Yu.V.
 To explanation of the height variations at Medicina and
 Syowa stations

XY0323; EGU2007-A-08467; G7/GD15-1TU5P-0323
Barkin, Yu.V.
 Trend and periodic variations of lengths of latitudinal circles
 of the Earth

XY0324; EGU2007-A-08523; G7/GD15-1TU5P-0324
Barkin, Yu.V.
 Phenomena of trend, annual and semiannual variations of
 latitude position of the latitudinal circles of the Earth

**G12 Open Session on Geodesy and Geodynamics –
 Posters**

Convener: Pagli, C.
 Co-Convener(s): Van Dam, T.
 Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: VAN DAM, T.

XY0947; EGU2007-A-09254; G12-1TU5P-0947
Alasonati Tasarova, Z.; Götze, H.-J.; Bielek, M.
 Gravity Field Analysis and a preliminary three-dimensional
 Density Model of Central Europe based on the CELEBRA-
 TION Seismic Experiment.

XY0325; EGU2007-A-03324; G12-1TU5P-0325
Sudau, A.; Weiß, R.
 Tide Gauges and the Mean Sea Level

XY0326; EGU2007-A-04469; G12-1TU5P-0326
Martinez-Benjamin, J.J.; Martin-Davila, J.; Garate, J.;
 Bonnefond, P.; Martinez-Garcia, M.; Ortiz-Castellon, M.A.;
 Talaya, J.; Baron, A.; Perez, B.; Rodriguez-Velasco, G.
 Calibration Experiences at the Western Mediterranean Sea
 using Altimetry and Tide Gauges

XY0327; EGU2007-A-04558; G12-1TU5P-0327
Martinez-Garcia, M.; Leckzinsky, R.; Pascual, J.;
 Martinez-Benjamin, J.J.
 CGPS Reference Station at l'Estartit for Monitoring Sea
 Level

XY0328; EGU2007-A-06713; G12-1TU5P-0328
 Schwahn, W.; Soehne, W.; Kluegel, T.
 GPS, sea level and air pressure time series during the surge
 "BRITTA" (October, 30 – November, 2, 2006) in the German
 Bight

XY0329; EGU2007-A-08165; G12-1TU5P-0329
Landerer, F. W.; Jungclaus, J. H.; Marotzke, J.
 Regional bottom pressure changes from ocean thermal ex-
 pansion in the 21st century and their effect on the degree-two
 Stokes coefficients

XY0330; EGU2007-A-07492; G12-1TU5P-0330
Rudenko, S.; Schoene, T.
 Influence of parameterization on the accuracy of altimetry
 satellite orbits

XY0331; EGU2007-A-05085; G12-1TU5P-0331
Ghazavi, K.; Nahavandchi, H.; The OCTAS Team
 The OCTAS07- North Atlantic/Arctic Ocean Mean Sea
 Surface Model based on a wavelet adjustment of multiple
 satellite altimetry data

XY0332; EGU2007-A-07732; G12-1TU5P-0332
Omang, O.C.D.; Solheim, D.; Hunegnaw, A.; Lysaker, D.I.;
 Ghazavi, K.; Nahavandchi, H.
 Updated OCTAS geoid - OCTAS07

XY0333; EGU2007-A-08695; G12-1TU5P-0333
Solheim, D.; THE OCTAS TEAM
 The OCTAS project, the interrelationship between the geoid,
 the mean sea surface and the mean dynamic topography

XY0334; EGU2007-A-08833; G12-1TU5P-0334
Soltanpour, A.; OCTAS team
 Assessment and Validation of the geoid, MSS and MDT
 models in the OCTAS project

XY0335; EGU2007-A-02472; G12-1TU5P-0335
Safari, A.; Ardalan, A.A.; Allahtavakoli, Y.
 On the optimum choices of estimation of regularization
 parameter for downward continuation problem of geoid
 computation without applying Stokes formula

XY0336; EGU2007-A-04072; G12-1TU5P-0336
Sprlak, M.; Janak, J.; Mojzes, M.
 Comparison of gravimetric quasigeoid models using spheri-
 cal Stokes's function and its five deterministic modifications

XY0337; EGU2007-A-04032; G12-1TU5P-0337
Janak, J.; Sprlak, M.; Mikula, K.
 Downward continuation of second radial derivation of
 disturbing potential - application for GOCE mission

XY0338; EGU2007-A-10583; G12-1TU5P-0338
Elhabiby, M.M.; Sideris, M.G.
 Evaluation of the parameters affecting the wavelet solution
 of geodetic integrals

XY0339; EGU2007-A-01796; G12-1TU5P-0339
Timár, G.;
 Separated estimation of the shift, rotation and scale param-
 eters of the Bursa-Wolf transformation

XY0340; EGU2007-A-02867; G12-1TU5P-0340
Timár, G.; Molnár, G.; Székely, B.; Biszak, S.; Jankó, A.
 Projection and datum parameters of the second military
 survey of the Habsburg Empire (1806-1869) for GIS data
 integration purposes

XY0341; EGU2007-A-06579; G12-1TU5P-0341
Tanir, E.; Tornatore, V.; Boehm, J.; Felsenstein, K.;
 Schuh, H.
 The Combination of Kalman Filter and Least-Squares
 Solutions of Different VLBI Analysis Centers

XY0342; EGU2007-A-01840; G12-1TU5P-0342
Luo, X.; Mayer, M.; Heck, B.
 Effect of SNR-based weighting on the results of GNSS
 phase observations

XY0343; EGU2007-A-01622; G12-1TU5P-0343
Klokocnik, J.; Kosteletzky, J.
 Evolution of Earth gravity induced geographically depen-
 dent radial orbit error for satellite altimetry

XY0344; EGU2007-A-02243; G12-1TU5P-0344
Cheraghi, H.; Hatam, Y.; Vanicek, P.; Najafi Alamdari, M;
 Qarakhani, J; Saadat, R; Jamour, Y
 Effect of lateral topographical density on geoid in Iran

XY0345; EGU2007-A-05273; G12-1TU5P-0345
Ardalan, A. A.; Karimi, R.
 Precise quasi-geoid map of Iran based on minimum-distance
 Molodensky telluroid mapping

XY0346; EGU2007-A-05347; G12-1TU5P-0346
Malservisi, R.; Furlong, K.P.; Govers, R.
 How does a lithospheric plate boundary adapt to changes
 in plate motion? An example from South Island of New
 Zealand

XY0347; EGU2007-A-06993; G12-1TU5P-0347
GEIRSSON, H.; Árnadóttir, Th.; Bennett, R.; Hreinsdót-
 tir, S.; Jónsson, S.; Deutscher, J.; LaFemina, P.; Sturkell, E.;
 Villemín, T.; Miyazaki, S.
 A new high-rate continuous GPS network in Iceland for
 crustal deformation research

XY0348; EGU2007-A-04831; G12-1TU5P-0348
Catalao, J.; Bos, M.; Antunes, C.
 A new high precision gravity and geoid model for the Azores
 archipelago

XY0349; EGU2007-A-05175; G12-1TU5P-0349
Salem, M.; Ben Suleman, A.
 Gravity and magnetic study of northeastern Libya

XY0350; EGU2007-A-01370; G12-1TU5P-0350
Mahmoud, S.; Reilinger, R.; McClusky, S.
 Seismicity and monitoring crustal deformation in and around
 Egypt using GPS techniques: Implication for Hazards As-
 sessments

XY0351; EGU2007-A-00198; G12-1TU5P-0351
Nankali, H.; Djamour, Y; Vosoughi, B
 Establishment of permanent GPS network for crustal defor-
 mation monitoring in Iran

XY0352; EGU2007-A-08961; G12-1TU5P-0352
Ferhat, G.; van der Woerd, J.; Ferry, M.; Masson, F.; Meghraoui, M.; Hinderer, J.; "Alps-GPSQuakenet" partners, and
 Continuous GPS network monitors the Upper Rhine Graben deformation

XY0353; EGU2007-A-00410; G12-1TU5P-0353
Grácová, M.; Schenk, V.; Mantlík, F.; Schenková, Z.; Kottbauer, P.
 GPS site movements detected in NE Bohemia, Central Europe

XY0354; EGU2007-A-10693; G12-1TU5P-0354
Robin, P-Y
 The Strain Probe: local two-dimensional Strain Determination from moving Points – Applications to regional GPS Data

Geodynamics

GD03 The Earth's Mantle - Geodynamical and Geochemical Models for the Structure and Composition

Convener: Deschamps, F.
 Co-Convener(s): Matas, J., Coltice, N., Bunge, H.
 Lecture Room 23
 Chairperson: N.N.

13:30–13:45; EGU2007-A-02965; GD03-1TU30-001
Deuss, A.; Andrews, J.
 Seismological observations of mantle discontinuities, and their mineral physical interpretation (solicited)

13:45–14:00; EGU2007-A-09069; GD03-1TU30-002
Kaban, M.K.; Trubitsyn, V.P.
 Modelling of the dynamic geoid with joint inversion of Vs velocities in the mantle and topography of the transition zone

14:00–14:15; EGU2007-A-02345; GD03-1TU30-003
van der Meer, D.G.; van Hinsbergen, D.J.J.; Spakman, W.
 Permo-Triassic subducted slabs return from the grave

14:15–14:30; EGU2007-A-04390; GD03-1TU30-004
Boschi, L.; Becker, T. W.; Steinberger, B.
 Mantle plumes: dynamic models and seismic images

14:30–14:45; EGU2007-A-02575; GD03-1TU30-005
Piazzoni, A.S.; Bunge, H.-P.; Steinle-Neumann, G.
 Linking mineral physics and geodynamic mantle models

14:45–15:00; EGU2007-A-02039; GD03-1TU30-006
Matas, J.; Bukowinski, M.S.T
 Anelasticity in the lower mantle: influence on the temperature dependence of seismic velocities

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-03320; GD03-1TU40-001
Walzer, U.; Hendel, R.; Baumgardner, J.
 An integrated geodynamical spherical-shell model of mantle convection, continental growth, and preservation of geochemical heterogeneity of the mantle.

15:45–16:00; EGU2007-A-09696; GD03-1TU40-002
Bourdon, B
 Ancient heterogeneities at the bottom of the Earth's Mantle? (solicited)

16:00–16:15; EGU2007-A-03587; GD03-1TU40-003
Armienti, P.; Gasperini, D.
 New perspectives on mantle heterogeneity

16:15–16:30; EGU2007-A-10611; GD03-1TU40-004
Starkey, N.; **Stuart, FM;** Ellam, RM; Basu, S; Fitton, JG; Larsen, LM
 High ³He/⁴He in the Deep Earth: Preservation of Primordial Mantle or Early Depletion?

16:30–16:45; EGU2007-A-10294; GD03-1TU40-005
Bunge, H.-P.
 Thermal structure across the CMB and deep mantle

16:45–17:00; EGU2007-A-04894; GD03-1TU40-006
Nakagawa, T.; Tackley, P.; Connolly, J.
 Heterogeneity in the core-mantle boundary region inferred from thermo-chemical multiphase mantle convection in a three-dimensional spherical shell

17:00 COFFEE BREAK

Chairperson: N.N.

17:30–17:45; EGU2007-A-05876; GD03-1TU50-001
Costin, S. O.; Butler, S. L.
 Effects of a chemically-dense layer, with high internal heating at the base of the mantle on the thermal and magnetic histories of the Earth's core

17:45–18:00; EGU2007-A-09223; GD03-1TU50-002
Wang, P.; **van der Hilst, R.D.;** de Hoop, M.V.; Shim, S.-H.
 Seismo-stratigraphy and thermal structure of Earth's core-mantle boundary region (solicited)

18:00–18:15; EGU2007-A-08425; GD03-1TU50-003
Deuss, A.; Hewitt, R.; Irving, J.
 Seismic constraints on inner core structure from normal mode data, and comparison with mineral physics

18:15–18:30; EGU2007-A-04769; GD03-1TU50-004
Shen, W.B.; Chen, W.; Liu, L.; Ning, J.Sh.
 The secular gravity field change caused by the inner core's super rotation

18:30–18:45; EGU2007-A-02257; GD03-1TU50-005
Breuer, M.; Harder, H.; Hansen, U.
 On potential driving mechanisms of core convection - a numerical study

18:45 END OF SESSION

GD03 The Earth's Mantle - Geodynamical and Geochemical Models for the Structure and Composition – Posters

Convener: Deschamps, F.
 Co-Convener(s): Matas, J., Coltice, N., Bunge, H.
 Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 08:30–10:00
 Poster Area Hall A
 Chairperson: N.N.

A0130; EGU2007-A-08254; GD03-1TU1P-0130
Soldati, G.; **Deschamps, F.;** Boschi, L.
 Radial models of viscosity and seismic velocity-to-density scaling from geophysical observables

A0131; EGU2007-A-03958; GD03-1TU1P-0131
Tosi, N.; Martinec, Z.
 The effect of short- and long-wavelength lateral viscosity variations on geoid predictions

A0132; EGU2007-A-10436; GD03-1TU1P-0132
Rogozhina, I.; Kaban, M.K.; Trubitsyn, V.
 Perturbation method for modeling of lateral viscosity variations of 4 orders of magnitude

A0133; EGU2007-A-02649; GD03-1TU1P-0133
Baranov, A.A.; Trubitsyn, V.P.; Kaban, M.K.; Rogozhina, I.
Effect of strong lateral viscosity variations on the global mantle flow

A0134; EGU2007-A-09664; GD03-1TU1P-0134
Trubitsyn, V.P.; **Kaban, M.K.**; Rothacher, M.
Evolution of global mantle convection: mechanical and thermal effects of floating continents

A0135; EGU2007-A-09501; GD03-1TU1P-0135
Tantsev, E.
Two-dimensional backward modelling of mantle plumes

A0136; EGU2007-A-07395; GD03-1TU1P-0136
Deschamps, F.; Tackley, P.J.
Exploring the model space of thermo-chemical convection and comparing with probabilistic tomography

A0137; EGU2007-A-07556; GD03-1TU1P-0137
Van heck, H.J.; Tackley, P.J.
Planforms and time-dependence of self-consistently generated plate tectonics in 3d spherical models of mantle convection

A0138; EGU2007-A-00348; GD03-1TU1P-0138
Mourão, C.; Moreira, M.; Mata, J.; Madeira, J.
He isotopic signatures of silicate and carbonatite magmas from Brava Island (Cape Verde): source implications

A0139; EGU2007-A-02602; GD03-1TU1P-0139
Prutkin, I.
CMB models based on gravity and magnetic data inversion and core material flow

A0140; EGU2007-A-02686; GD03-1TU1P-0140
Calvet, M.; Margerin, L.
Constraints on stable iron phases at inner core condition from calculations of seismic properties of untextured crystal aggregates (solicited)

A0141; EGU2007-A-04982; GD03-1TU1P-0141
Ovtchinnikov, V.M.; Kaazik, P.B.; Krasnoshchekov, D.N.
Problems related to precritically reflected phase PKiKP and the inner core boundary

A0142; EGU2007-A-03018; GD03-1TU1P-0142
Ballani, L.; Chambodut, A.; Greiner-Mai, H.; Stromeyer, D.; Wardinski, I.; Hagedoorn, J.
Gaining insights into space-time scales of the secular variation of the geomagnetic Y component at the core-mantle boundary

A0143; EGU2007-A-06992; GD03-1TU1P-0143
Marsenic, A.; Sevcik, S.
An influence of a position of a critical level inside a horizontal layer on the rise of the magnetic and thermally driven instabilities

A0144; EGU2007-A-10826; GD03-1TU1P-0144
Soltis, T.; Brestensky, J.; Sevcik, S.
MAC/MC - modes in variously stratified fluid layer with anisotropic diffusive coefficients

A0145; EGU2007-A-08843; GD03-1TU1P-0145
Sheremeta, P.; Ladyzhensky, G.; Starodub, Y.; Nazarevych, L.; Pylypyshyn, B.; Khavenzon, I.; Slonytska, S.; Nazarevych, A.; Levkovych, Y.
On the seismofocal zone of the Hercynian tectonic cycle and the kimberlite formation of tectonic-magmatic actyvization in the south-eastern part of the Carpathian Foredeep in connection with oil and gas content

A0146; EGU2007-A-01153; GD03-1TU1P-0146
Serov, P.; Bayanova, T.
Polychronic and long-time interval of the formation Proterozoic PGE-bearing Fedorovo-Pansky intrusion

Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 10:30–12:00

GD Poster Area
Chairperson: N.N.

GD08 Modelling and Monitoring the Deformation and State of Stress of the Lithosphere (co-sponsored by the International Lithosphere Program Task Force VII, co-listed in SM & G) – Posters

Convener: Heidbach, O.
Co-Convener(s): Fischer, K., Friedrich, A., Jonsson, S.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 08:30–10:00
Poster Area Hall A
Chairperson: HEIDBACH, O.

A0147; EGU2007-A-08179; GD08-1TU1P-0147
Galybin, A.N.
Introduction of the Stress Trajectories Element Method for Stress Analysis in Tectonic Plates

A0148; EGU2007-A-08218; GD08-1TU1P-0148
Mukhamediev, Sh.A.; Galybin, A.N.
Analysis of Stresses Initiated Recent Near-Sumatra Earthquakes

A0149; EGU2007-A-01700; GD08-1TU1P-0149
A. Ardalan, A.; Nafisi, V.
Application of variance component estimation method for strain analysis directly from repeated geodetic observations

A0150; EGU2007-A-01699; GD08-1TU1P-0150
A. Ardalan, A.; Nafisi, V.
Is strain analysis based on displacement field reliable for Geodynamics applications?

A0151; EGU2007-A-04839; GD08-1TU1P-0151
M. Madjdabadi, B
Determination of the optimum drilling direction of a horizontal wellbore in a naturally fracture reservoir using DEM

A0152; EGU2007-A-01214; GD08-1TU1P-0152
Longuevergne, L.; Boudin, F.; Florsch, N.; Vincent, T.; Kammenthaler, M.
Physical modelling to remove hydrological effects from geodynamical measurements

A0153; EGU2007-A-05127; GD08-1TU1P-0153
a.a.Ardalan, Prof; h.Salimi, eng
computation of radial deformation of crust due to tide on the coastal station at Perssain Gulf and Oman sea

A0154; EGU2007-A-02258; GD08-1TU1P-0154
Yurdakul, A.; Pamukçu, O.; Akçig, Z.
Lithospheric Flexure of The Western Turkey (cancelled)

A0155; EGU2007-A-10507; GD08-1TU1P-0155
Staackmann, M.; Snopek, K.; Casten, U.; Klatt, D.
Isostatic modelling of the Hellenic Arc

A0156; EGU2007-A-05594; GD08-1TU1P-0156
Kurfeß, D.; Heidbach, O.
Coupled 3D finite element modeling of surface processes and crustal deformation: a new approach based on ABAQUS

A0157; EGU2007-A-02713; GD08-1TU1P-0157
Karow, T.; Hampel, A.
Behavior of Active Faults during Glacial-Interglacial Cycles: the Effect of the Spatial Distribution of the Glacial Surface Load

A0158; EGU2007-A-10195; GD08-1TU1P-0158

Delvaux, D.

Quaternary stress field and deformation at a rift triple junction / accommodation zone: synthesis from the Tanganyika – Rukwa – Nyasa Rift (SW Tanzania)

A0159; EGU2007-A-06866; GD08-1TU1P-0159

Hubert-Ferrari, A.; Suppe, J.; Gonzalez-Mieres, R.

Mechanisms of active folding of the landscape (Southern Tianshan, China)

A0160; EGU2007-A-00950; GD08-1TU1P-0160

Shahpasandzadeh, M.; Jamalian, N.

Slip sense inversion on the Mosha strike-slip fault system, central Alborz, Iran

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 10:30–12:00

Poster Area Hall A

Chairperson: FISCHER, K.

A0161; EGU2007-A-03459; GD08-1TU2P-0161

Hergert, T.; Heidbach, O.

3D numerical model of the kinematics and dynamics of the Marmara Sea region for seismic hazard assessment

A0162; EGU2007-A-03092; GD08-1TU2P-0162

Carena, S.

3-D geometry of active deformation east of the San Andreas fault near Parkfield, northern California

A0163; EGU2007-A-05952; GD08-1TU2P-0163

Mashhadi Hossainali, M.; Joodaki, Gh.

Continuous representation of crustal deformation in south-central Alaska

A0164; EGU2007-A-05289; GD08-1TU2P-0164

Mashhadi Hossainali, M.; Nafisi, V.

Finite element versus isoparametric representation of deformation, Case study: Kenai-Peninsula area

A0165; EGU2007-A-04081; GD08-1TU2P-0165

Heidbach, O.; Iaffaldano, G.; Bunge, H.-P.

Topography growth drives stress rotations in the Central Andes - observations and models

A0166; EGU2007-A-03087; GD08-1TU2P-0166

Postek, E.W.; Houseman, G.A.; Jimack, P.K.

The effect of geometrical nonlinearity in visco-elastic deformation

A0167; EGU2007-A-02161; GD08-1TU2P-0167

Ledermann, P.; Heidbach, O.

Stress transfer modelling of the strong earthquake sequence at intermediate depths in the Vrancea area, Romania

A0168; EGU2007-A-00367; GD08-1TU2P-0168

RADULESCU, F.; MALITA, Z.; **PLACINTA, A.O.**

Seismological information about the recent dynamics of the North-Dobrogean Orogen (Romania)

A0169; EGU2007-A-06490; GD08-1TU2P-0169

Bacolcol, T.; Barrier, E; Duquesnoy, T; Aguilar, A; Jorgio, R; de la Cruz, R

Pre-seismic deformation and horizontal displacements associated with the Ms=6.2 February 15, 2003 Masbate earthquake, Philippines

A0170; EGU2007-A-09458; GD08-1TU2P-0170

Fischer, K. D.; Babeyko, A.

Modelling the 365 AD Crete Earthquake and its Tsunami

A0171; EGU2007-A-10618; GD08-1TU2P-0171

Schenk, V.; Jechumtálová, Z; Schenková, Z

Post-seismic release slip observed after two earthquake swarms 2004 in West Bohemia

A0172; EGU2007-A-07673; GD08-1TU2P-0172

Plenefisch, T.; Walther, M.

Tracking SKS shear-wave splitting across Central and Eastern Europe by using permanent networks and one single event

A0173; EGU2007-A-06161; GD08-1TU2P-0173

Caporali, A.; The CERGOP 2 Team

Geokinematics of Central Europe: new insights from the CERGOP-2/Environment Project

A0174; EGU2007-A-01686; GD08-1TU2P-0174

Milyukov, V.; Latinina, L.; Milronov, A.; Vasil'ev, I.

Global deformations of the Lithosphere and mutual relations to global seismic processes and global geodynamic of the Earth

GD10 The link of deep and shallow lithospheric processes in sedimentary basins-ILP Task Force Sedimentary Basins

Convener: Scheck-Wenderoth, M.

Co-Convener(s): Roure, F.

Lecture Room 23

Chairperson: SCHECK-WENDEROTH, M.

8:30–8:45; EGU2007-A-11287; GD10-1TU1O-001

Cloetingh, S.; van Wees, J.D.; Beekman, F.

Thermo-mechanical models for basin (de)formation: beyond the McKenzie model (solicited)

8:45–9:00; EGU2007-A-06696; GD10-1TU1O-002

Mauduit, T. PO.; van Wijk, J.; Sokoutis, D.

Weak zones on volcanic passive margins of Norway, an integrated numerical and analogue modelling approach

9:00–9:15; EGU2007-A-06405; GD10-1TU1O-003

Buiter, S.; Torsvik, T

Basin inversion constrained by numerical models and plate reconstructions: a Barents Sea example

9:15–9:30; EGU2007-A-09751; GD10-1TU1O-004

Tommasi, A.; Knoll, M.; Logé, R.; Vauchez, A.

Mechanical anisotropy of the lithospheric mantle and continental rifting: Observations and models

9:30–9:45; EGU2007-A-11289; GD10-1TU1O-005

Sassi, W.; Jones, S.; Seed, G.; Shackleton, R.; Krus, M.

Brittle-ductile mechanics of sedimentary basins: advances in 4D kinematic and dynamic deformation models for structural interpretation (solicited)

9:45–10:00; EGU2007-A-10468; GD10-1TU1O-006

Hartz, E. H.; Podladchikov, Y. Y.; Medvedev, S.; Faleide, J. I.; Simon, N. S.

Force, energy and mass balanced basin models: New concepts and Arctic examples.

10:00 END OF SESSION

GD10 The link of deep and shallow lithospheric processes in sedimentary basins-ILP Task Force Sedimentary Basins – Posters

Convener: Scheck-Wenderoth, M.

Co-Convener(s): Roure, F.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 13:30–15:00

Poster Area Hall A

Chairperson: ROURE, F.

A0175; EGU2007-A-07958; GD10-1TU3P-0175
Ritzmann, O.; Faleide, J.I.; Planke, S.; Myklebust, R.
 Geophysical structure of the Barents Sea crust and upper mantle compared to Western Siberia

A0176; EGU2007-A-08038; GD10-1TU3P-0176
Hirsch, K.K.; Scheck-Wenderoth, M.; Paton, D.A.; di Primio, R.; Horsfield, B.; Cloetingh, S.; Beekman, F.
 3D Gravity Modelling and Subsidence Analysis in the Orange Basin, Southwest African Continental Margin

A0177; EGU2007-A-09402; GD10-1TU3P-0177
Nielsen, C.; Nielsen, L.; Sandrin, A.; Shulgin, A.; Thybo, H.
 Deep seismic study of the Danish Basin based on the ESTRID-2 seismic profile

A0178; EGU2007-A-07369; GD10-1TU3P-0178
Saintot, A.; Ebbing, J.; Daragan-Suschova, L.; Gernigon, L.; Koren, T.; Litvinova, T.; Olesen, O.; Smelror, M.; Sobolev, N.; Werner, S.C.
 Maps of paleogeography and potential field data reveal the geological evolution of the Barents Barents and Kara Seas hydrocarbon provinces

A0179; EGU2007-A-05179; GD10-1TU3P-0179
Muslimov, R. Kh.; Plotnikova, I. N.
 Hypotheses and Facts of the Interconnection of the Deep Processes in the Earth Crust with Recent Replenishment of Hydrocarbon Reserves

A0180; EGU2007-A-05130; GD10-1TU3P-0180
Gottikh, R. P.; Pisotskiy, B. I.; **Plotnikova, I. N.**
 Influence by the C-H-O-N-S-Me Deep System on Hydrocarbons Formation of the Sedimentary Basins

A0181; EGU2007-A-00201; GD10-1TU3P-0181
A.G. Rodnikov, A.G.; Sergeeva, N.A.; **Zabarinskaya, L.P.**
 The Deep Structure and Evolution of Sedimentary Basins of the Margins and Inner Seas

A0182; EGU2007-A-00200; GD10-1TU3P-0182
Rodnikov, A.G.; Sergeeva, N.A.; **Zabarinskaya, L.P.**
 The Deep Structure and Evolution of Sedimentary Basins of the Margins and Inner Seas

A0183; EGU2007-A-02934; GD10-1TU3P-0183
Maystrenko, Yu.; Scheck-Wenderoth, M.
 Load distribution in the mantle across the Norwegian continental margin (Vøring and Møre Basins) and adjacent oceanic areas - results from isostatic, 3D load and 3D gravity modelling

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 15:30–17:00

GD Poster Area
 Chairperson: N.N.

GD11 Kinematics and Geodynamics of the Central and Western Mediterranean (co-listed in TS, G & NH)

Convener: Govers, R.
 Co-Convener(s): Faccenna, C.
 Lecture Room 23
 Chairperson: N.N.

10:30–10:45; EGU2007-A-04595; GD11-1TU2O-001
Booth-Rea, G.; **Ranero, C.;** Martínez-Martínez, J.M.; Grevemeyer, I.
 Seismic images of the Middle to Upper Miocene Alboran magmatic Arc.

10:45–11:00; EGU2007-A-06171; GD11-1TU2O-002
Caporali, A.; Nardo, A.
 Geodesy and seismicity in the Eastern Alps

11:00–11:15; EGU2007-A-09512; GD11-1TU2O-003
Bokelmann, G.; Maufroy, E.; Schimmel, M.
 Non-conventional seismological constraints on subduction zone structure: Preliminary results from the Alboran Sea between Spain and Morocco

11:15–11:30; EGU2007-A-09655; GD11-1TU2O-004
Ruiz-Constán, A.; Galindo-Zaldívar, J.; Pedrera, A.; Marín-Lechado, C.; Stanica, D.; Stanica, M.
 Crustal detachments and seismicity distribution: new constraints from MT data in central Betic Cordilleras

11:30–11:45; EGU2007-A-09820; GD11-1TU2O-005
GHORBAL, B.; BERTOTTI, G.; ANDRIESEN, PAM
 New insights into the tectono-morphic evolution of the Western Meseta (Morocco, NW Africa) based on low-temperature thermochronology.

11:45–12:00; EGU2007-A-11106; GD11-1TU2O-006
Di Martino, SD; Negusini, MN; La Delfa, SL; Patanè, GP
 Studies about the geodynamics of the etnean area by geophysic and geodetic techniques (GPS, VLBI).

12:00 END OF SESSION

Geomorphology

GM7 Surface and Subsurface Karst Geomorphology

Convener: De Waele, J.
 Co-Convener(s): Plan, L., Audra, P.
 Lecture Room 7
 Chairperson: DE WAELE, J.

10:30–10:45; EGU2007-A-01435; GM7-1TU2O-001
Kaufmann, G.
 Modelling karst geomorphology on different time scales

10:45–11:00; EGU2007-A-02002; GM7-1TU2O-002
Cucchi, F.; **Furlani, S.;** Burelli, G.; Zini, L.; Modenesi, P.; Piervittori, R.; Salvadori, O.; Tretiach, M.
 Limestone weathering and endolithic lichens

11:00–11:15; EGU2007-A-08499; GM7-1TU2O-003
Filipponi, M.; Jeannin, P.-Y.
 Cave gypsum an indicator for early speleogenetical processes?

11:15–11:30; EGU2007-A-00207; GM7-1TU2O-004
De Waele, J.; Mucedda, M.; Montanaro, L.
 Some interesting karst landforms in Miocene and Quaternary carbonate rocks along the central-western coast of Sardinia (Italy)

11:30–11:45; EGU2007-A-02221; GM7-1TU2O-005
Plan, L.; Decker, K.; Wagreich, M.
 Influence of high Alpine Karst Morphology on Vulnerability – a Case Study from the Viennese Water Catchment

11:45–12:00; EGU2007-A-10857; GM7-1TU2O-006
Zechner, E.; Spottke, I.; Konz, M.; Gechter, D.; Huggenberger, P.
 Effects of tectonic structures, groundwater pumping, and mining activity on evaporite subsidence and resulting land subsidence

12:00 END OF SESSION

GM7 Surface and Subsurface Karst Geomorphology – Posters

Convener: De Waele, J.
Co-Convener(s): Plan, L., Audra, P.
Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 17:30–19:00

Poster Area Halls X/Y
Chairperson: PLAN, L.

XY0355; EGU2007-A-00030; GM7-1TU5P-0355

Cossu, Q. A.; Badino, G.; Murgia, F.; Sanna, L.
Micrometeorology of the Colostrargiu Cave (Sardinia, Italy) and its interactions with karst geomorphology

XY0356; EGU2007-A-00065; GM7-1TU5P-0356

Haryono, E.
Uplift phase evidences from karst valley and karst hills morphometry in Blambangan Karst, Java-Indonesia (cancelled)

XY0357; EGU2007-A-01348; GM7-1TU5P-0357

Podobnikar, T.
Analysing human impacts on the Earth's surface using spatial datasets

XY0358; EGU2007-A-01779; GM7-1TU5P-0358

Strini, A.; Mainardi, D.; Bini, A.
Coastal rock pools development in a carbonate sandstone: analysis of growing processes related to coastal zonation in a Mediterranean site (SE Sicily, Italy)

XY0359; EGU2007-A-01842; GM7-1TU5P-0359

Bodini, A.; Cossu, Q. A.; **De Waele, J.;** Sanna, L.
The three exceptional winter flash floods of 2004–2006 in Central-East Sardinia and their geomorphological consequences (Italy)

XY0360; EGU2007-A-02097; GM7-1TU5P-0360

Onac, B.P.; Effenberger, H.; Breban, R.
Rare minerals in the phosphate-rich deposit from the Cio-clovina Cave, Romania

XY0361; EGU2007-A-02171; GM7-1TU5P-0361

Behm, M.; Plan, L.; Seebacher, R.
Polyphase alpine speleogenesis – examples from Eastern Totes Gebirge (Austria)

XY0362; EGU2007-A-02521; GM7-1TU5P-0362

Cucchi, F.; Visintin, L.; Zini, L.
Geomorphological notes on the Impossible Cave (Classical Karst, Italy)

XY0363; EGU2007-A-03002; GM7-1TU5P-0363

Garasic, M.G.
The Longest and Deepest caves in Croatian karst

XY0364; EGU2007-A-09174; GM7-1TU5P-0364

Strasser, M.; Sontheimer, A.; Pelz, K.; Seyfried, H.
Timing of Neogene surface and karst forming processes on the eastern Schwäbische Alb, Germany

XY0365; EGU2007-A-10204; GM7-1TU5P-0365

Heydari, S.
Karst landscape and Paleolithic settlement system in Zagros Mountains of Iran

XY0366; EGU2007-A-11049; GM7-1TU5P-0366

Kellermann, H.; Decker, K.; Plan, L.
Influence of fault-morphology and -rock on karstification

GM8 High Mountain Geomorphology

Convener: Kuhle, M.
Co-Convener(s): Iturrizaga, L.
Lecture Room 7
Chairperson: KUHLE, M.

8:30–9:00; EGU2007-A-11403; GM8-1TU1O-001

Kuhle, M.
Reconstruction of the Ice Age glaciation (LGP/Last Glacial Period) in the southern slopes of Mt. Everest, Cho Oyu, Lhotse and Makalu (Himalaya) (solicited)

9:00–9:15; EGU2007-A-05470; GM8-1TU1O-002

Iturrizaga, L.
Historical and recent glacier variations in the Karakoram Mountains

9:15–9:30; EGU2007-A-08693; GM8-1TU1O-003

Meiners, SM
Glacial history of landscape in the Batura and Haramosh Muztagh

9:30–9:45; EGU2007-A-05131; GM8-1TU1O-004

Almodaresi, S.A.; Ramesht, M.H.
Ice Caps in Central Mountains of IRAN-SAKHVID Basin

9:45–10:00; EGU2007-A-05634; GM8-1TU1O-005

Palacios, D.; Marcos, F.J.; Andrés, N.; Vázquez-Selem, L.
Last glacial maximum and deglaciation in central Spanish mountains

10:00–10:15; EGU2007-A-02346; GM8-1TU1O-006

Furlanis, S.; Tagliavini, F.
Integrated approach for the classification of quaternary deposits in the alpine environment. The case study of Palafavera, Italian Dolomites

10:15 END OF SESSION

GM11 Mechanisms of coupling and feedback between tectonics, climate and surface processes (co-listed in GD & CL)

Convener: Simpson, G.
Co-Convener(s): Willett, S.
Lecture Room 17 (M)
Chairperson: SIMPSON, G., WILLETT, S.

I. The Coupled Dynamic System

8:30–8:45; EGU2007-A-09733; GM11-1TU1O-002

Willett, S.D.; Stolar, D.; Roe, G.
Space and time variations of erosion rates in steady and non-steady mountain ranges

8:45–9:00; EGU2007-A-08261; GM11-1TU1O-003

Dunai, TJ
Climate change and long-term landscape evolution

9:00–9:15; EGU2007-A-00971; GM11-1TU1O-004

Graveleau, F.; Dominguez, S.; Hurtrez, J.E.; Malavieille, J.
Tectonics/Erosion/Sedimentation interactions in active mountain belt forelands : comparisons between experimental modeling and north-east Tian-Shan piedmont (Xinjiang, China)

9:15–9:30; EGU2007-A-09044; GM11-1TU1O-005

Cederbom, C.E.; Schlunegger, F.; Sinclair, H. D.; van der Beek, P.
Coupling between climate, erosion and tectonics in the European Alps and the North Alpine Foreland Basin during Neogene times

9:30–9:45; EGU2007-A-04847; GM11-1TU1O-006

Iaffaldano, G.; Bunge, H.-P.; Dixon, T.H.; Bückler, M.
Feedback between Andean mountain belt growth and plate convergence: a climate-driven process?

9:45–10:00; EGU2007-A-06270; GM11-1TU1O-007
Nielsen, S. B.; CENMOVE WORKING GROUP
 Protracted erosion and climate change create an illusion of Cenozoic uplift for the Scandinavian Caledonides

10:00 COFFEE BREAK

Chairperson: PERSANO, C., WILLETT, S

II. Rates and Mechanisms of Coupling

10:30–10:45; EGU2007-A-02945; GM11-1TU2O-002

Carter, A

A role for low-temperature detrital thermochronology in landscape evolution studies.

10:45–11:00; EGU2007-A-09015; GM11-1TU2O-003

Gallagher, K.; Stephenson, J.; Brown, R.; Holmes, C.
 Integrating 3D information from thermochronological data over unknown spatial scales

11:00–11:15; EGU2007-A-11152; GM11-1TU2O-004

Lavé, J.; Garzanti, E.; France Lanord, C.

Quantifying erosion and provenance variability in the modern sands of the Central Himalayan rivers: a comparison of provenance methods.

11:15–11:30; EGU2007-A-03126; GM11-1TU2O-005

Reinhardt, L.; Ellis, M.

How meaningful are mean denudation rates? Evidence from a model landscape

11:30–11:45; EGU2007-A-08122; GM11-1TU2O-006

Korup, O.; Clague, J.J.; Hermanns, R.L.; Hewitt, K.; Strom, A.L.; Weidinger, J.T.

Giant landslides, topography, and erosion

11:45–12:00; EGU2007-A-06413; GM11-1TU2O-007

Preuth, T.; Schlunegger, F

Tectonic controls on the frequency-magnitude distribution of rock-slope failures

12:00 LUNCH BREAK

Chairperson: GALY, A., HOVIUS, N.

III. Climate Coupling through the Carbon Cycle

13:30–13:45; EGU2007-A-10236; GM11-1TU3O-002

Van Oost, K.; Quine, T.A.; Harden, J.W.; Govers, G; Merckx, R

Dynamic replacement and burial of eroded carbon: quantifying erosion induced soil-atmosphere C exchange at the European scale.

13:45–14:00; EGU2007-A-07939; GM11-1TU3O-003

Hoffmann, T.O.; Glatzel, S.

A carbon storage perspective on alluvial sediment storage in the Rhine catchment

14:00–14:15; EGU2007-A-10202; GM11-1TU3O-004

Copard, Y.; Pezet, F.; Di-Giovanni, Ch.; Coulthard, T.J.

Estimation of storage and fluxes of recent and fossil organic carbon in an alpine catchment (Montmin, Haute-Savoie, France)

14:15–14:30; EGU2007-A-08055; GM11-1TU3O-005

Hilton, R. G.; Galy, A.; Hovius, N.; Chen, M-C.

The erosion of particulate organic carbon from a small mountain river: The role of large floods

14:30–14:45; EGU2007-A-03139; GM11-1TU3O-006

Huh, Y.; Ollivier, T.; Humayun, M.

Dissolved rhenium in the rivers of eastern Tibet

14:45–15:00; EGU2007-A-09150; GM11-1TU3O-007

Robinson, R.A.J.; Bird, M.I.; Oo, N.W.; Higgitt, D.L.;

Lu, X.X.; Hoey, T.B.; Swe, A.; Tun, T.

The sediment and carbon fluxes for the Irrawaddy and Salween rivers of Myanmar; contributions of a large tectonically active, tropical river system

15:00 COFFEE BREAK

Chairperson: DENSMORE, A., KORUP, O.

IV. The Response of the Landscape

15:30–15:45; EGU2007-A-10379; GM11-1TU4O-002

Simpson, G.; Willett, S.; Stolar, D.

Mechanisms and definitions of coupling and feedback between tectonics, climate and surface processes

15:45–16:00; EGU2007-A-03923; GM11-1TU4O-003

Robert, X.; Van der Beek, P.; Mugnier, J.-L.; Braun, J.; Muceku, B.

Constraints on recent Lesser Himalayan deformation from new apatite fission-track data along a North - South transect (Central Nepal).

16:00–16:15; EGU2007-A-03375; GM11-1TU4O-004

Stüwe, K.; Robl, J.; Hergarten, S.

Geometric relationships between orogenic indenters and drainage divides: The India-Asia collision zone

16:15–16:30; EGU2007-A-09019; GM11-1TU4O-005

Walcott, R. C.; Summerfield, M. A.

Hypsometric integral analysis of the southeast African landscape

16:30–16:45; EGU2007-A-08095; GM11-1TU4O-006

Rehak, K.; Strecker, M.R.; Echtler, H.P.; Binnie, S.; Summerfield, M.; Dunai, T.; Freeman, S.

Forearc deformation and erosion on different timescales – Chile, 37° - 38°S

16:45–17:00; EGU2007-A-03032; GM11-1TU4O-007

Schildgen, T.; Whipple, K.; Hodges, K.; Reiners, P; Pringle, M

Surface uplift of the western margin of the Altiplano revealed through canyon incision history, southern Peru

17:00 END OF SESSION

GM11 Mechanisms of coupling and feedback between tectonics, climate and surface processes (co-listed in GD & CL) – Posters

Convener: Simpson, G.

Co-Convener(s): Willett, S.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0367; EGU2007-A-04429; GM11-1TU5P-0367

Godard, V.; Cattin, R.; Lave, J.; Carcaillet, J.; Pik, R.; Tibari, B.; de Sigoyer, J.; Pubellier, M.; Zhu, J.

No surface evidence for recent channel flow imprint in Eastern Tibet

XY0368; EGU2007-A-09273; GM11-1TU5P-0368

Simoes, M.; Avouac, J.P.; Beyssac, O.; Goffe, B.; Farley, K.; Chen, Y.G.

Kinematics of mountain-building in Taiwan: a basis for exploring the coupling between tectonics and surface processes.

XY0369; EGU2007-A-07422; GM11-1TU5P-0369

Poisson, B.; Carretier, S.

Influence of a piedmont on the morphological dynamics of a range: insights from numerical modelling

XY0370; EGU2007-A-10838; GM11-1TU5P-0370

Graveleau, F.; Hurtrez, J.E.; Dominguez, S.

Erosion and strain scaling tests for the characterization of water-saturated granular materials used in analogue mountain building experiments

XY0371; EGU2007-A-04931; GM11-1TU5P-0371

Kurfeß, D.; Peters, G.; Buchmann, T.

A new way of coupled 3D numerical modeling of surface processes and crustal deformation and evaluation of results using geomorphological data

XY0372; EGU2007-A-03229; GM11-1TU5P-0372

Robl, J.; Hergarten, S.; Stüwe, K.

The migration of watersheds in active orogens : Snapshots from Central Europe and the India-Asia collision zone

XY0373; EGU2007-A-10759; GM11-1TU5P-0373

Zeilinger, G.; Schlunegger, F.; Simpson, G.

Focussed erosion and possible flexural accommodation: A case study from the eastern edge of the Altiplano

XY0374; EGU2007-A-03322; GM11-1TU5P-0374

Steffen, D.; Schlunegger, F.; Preusser, F.

A climatic fingerprint recorded in fluvial terraces and alluvial fans, Valley de Pisco, Peru

XY0375; EGU2007-A-08142; GM11-1TU5P-0375

Rehak, K.; Strecker, M.R.; Echtler, H.P.

Climatic controls on drainage basin topography – The Andean margin (15°30'S 41°30'S)

XY0376; EGU2007-A-06403; GM11-1TU5P-0376

Delvaux, D.; Macheyeki, A.S.; Kervyn, F.; Fontijn, K.; Ernst, G.; Temu, E.B.

Possible coupling between climatically induced lake level change, volcanic eruptions and seismotectonic activation in the Rukwa-Rungwe-Nyasa rift, SW Tanzania

XY0377; EGU2007-A-10207; GM11-1TU5P-0377

Kirstein, L.A.; Carter, A.; Chen, Y-G

Thermochronology of zircon grains from the Coastal Range of Taiwan: New constraints on source and exhumation history

XY0378; EGU2007-A-03769; GM11-1TU5P-0378

Redfield, T.F.; Hendriks, B.W.H

Re-evaluating Scandinavia's Apatite Fission Track data set

XY0379; EGU2007-A-09428; GM11-1TU5P-0379

Van Hemelryck, H.; Van Oost, K.; Govers, G.; Merckx, R. Spatial and vertical variation of soil organic carbon: the role of soil redistribution

XY0380; EGU2007-A-00861; GM11-1TU5P-0380

Hartmann, J.; Jansen, N.; Dürr, H.H.; Kempe, S.

High riverine fluxes of dissolved silica from Japan – the influence of lithology

XY0381; EGU2007-A-08008; GM11-1TU5P-0381

Hilton, R. G.; Hovius, N.; Galy, A.

Landslide mobilization of particulate organic carbon from an active mountain belt: Western Southern Alps, New Zealand.

XY0382; EGU2007-A-01191; GM11-1TU5P-0382

Zhang, S.; Lu, X. X.

Major ion chemistry and dissolved inorganic carbon cycling in a mountainous tributary of the lower Xijiang River, China

XY0383; EGU2007-A-00225; GM11-1TU5P-0383

Nkoue Ndong, G. R.; Brunet, F.; Probst, J. L.; Boeglin, J. L.; Ndam Ngoupayou, J. R.; Ekodeck, G. E.; Gauthier-Lafaye, F.; Mortatti, J.

Soil and atmospheric controls on the $\delta^{13}\text{C}$ of riverine dissolved inorganic carbon in the Nyong river basin (South Cameroon)

XY0384; EGU2007-A-08036; GM11-1TU5P-0384

Wulf, H.; Elsenbeer, H.; Märker, M.; Bookhagen, B.

Contemporary surface processes in the Sutlej region of North India.

XY0385; EGU2007-A-06201; GM11-1TU5P-0385

Alvarez-Marron, J.; Menéndez, R.; Glasmacher, U.A.

Long-term evolution of the landscape at a coastal mountain range: the western Cantabrian Mountains (N Spain)

XY0386; EGU2007-A-02365; GM11-1TU5P-0386

Taramelli, A.; Mirabella, F.; Melelli, L.; Barchi, M.

Tectonics from topography: surface flow patterns and their correlation with active normal faults geometry in the northern Apennines

XY0387; EGU2007-A-04443; GM11-1TU5P-0387

Molliex, S.; Bellier, O.; Clauzon, G.; Siame, L.; Hollender, F.

Miocene to present tectonics and associated morphological responses in a slow deformation domain (Provence, SE France)

XY0388; EGU2007-A-04853; GM11-1TU5P-0388

Tsimi, C.; Ganas, A.; Soulakellis, N.; Kairis, O.; Valmis, S

Morphotectonics of the Psathopyrgos active fault, western Corinth Rift, Greece.

XY0389; EGU2007-A-04573; GM11-1TU5P-0389

Wagner, T.; Stüwe, K.; Fritz, H

Conspicuous features and their indications for the evolution in the Styrian Basin

XY0390; EGU2007-A-10288; GM11-1TU5P-0390

Dövényi, P.; Molnár, G.; Székely, B.; Ferencz, E.; Galsa, A.; Lenkey, L.; Horváth, F.

Neotectonic interpretation of geophysical measurements in the Balatonfő region

XY0391; EGU2007-A-00351; GM11-1TU5P-0391

Gogoase Nistoran, D. E.; Armas, I.; Popa, R.; Pincovski, I.

Assessing hillslope-streamchannel couple in landscape evolution: Prahova sub-Carpathian area, Romania

XY0392; EGU2007-A-08795; GM11-1TU5P-0392

Lisker, F.; Läufer, A.L.; Rossetti, F.

The influence of tectonics, climate and lithology on the landscape evolution of the northern Transantarctic Mountains

XY0393; EGU2007-A-09005; GM11-1TU5P-0393

Baron, I.; Hradecky, P.; Baratoux, L.; Vorel, T.

Geomorphic features and landforms analysis for geohazard assessment in El Salvador and Nicaragua, Central America

XY0394; EGU2007-A-11516; GM11-1TU5P-0394

Whitchurch, A.; Gupta, S.

Reconfiguration of Miocene rivers by passage of the Yellowstone hotspot

XY0395; EGU2007-A-10313; GM11-1TU5P-0395

Telbisz, T.; Karátson, D.; Székely, B.

Morphometric reconstruction of the San Francisco Mountain, Arizona by high-resolution Digital Elevation Model

XY0396; EGU2007-A-10295; GM11-1TU5P-0396

Székely, B.; Hampton, S.J.

DEM-aided volcanic reconstruction and collapse recognition of degraded Miocene volcanic edifices: a case history of Lyttelton Volcano, New Zealand

XY0397; EGU2007-A-10251; GM11-1TU5P-0397

Kósik, Sz.; Karátson, D.; **Székely, B.**

Volcaniclastic successions in the Visegrád Mountains, Hungary: stratigraphy and facies relationships on 3D digital elevation models

Geosciences Instrumentation and Data Systems

G11 Open session on Geoscience Instrumentation (co-listed in GMPV, G, HS, MPRG, NH, OS & SM) – Posters

Convener: Korepanov, V.

Co-Convener(s): Svedhem, H., Harri, A.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0398; EGU2007-A-00067; GI1-1TU5P-0398

Malevinskiy, S.V.; Konvalenko, A.A.

Radio telescope RT-70 in world networks of radio interferometers with very long bases

XY0399; EGU2007-A-03342; GI1-1TU5P-0399

Stadler, ST.; Klock, K.; Skritek, S

Using LEO-satellite networking for hydrological event-sampling and monitoring

XY0400; EGU2007-A-07626; GI1-1TU5P-0400

Casten, U.; The HALO Geosciences User Group
Geoscientific Earth Observation with HALO in the Aegean region (GEOHALO)

XY0401; EGU2007-A-09041; GI1-1TU5P-0401

Stanga, R.; Azzara, R.; Bergamaschi, F.; Gallieni, D.; Rovelli, A.; Taddei, R.

GECCO: a prototype broadband triaxial seismic sensor with on-board digital electronics

XY0402; EGU2007-A-11141; GI1-1TU5P-0402

Tasic, I.; **Mali, M.;** Sincic, P.; Vidrih, R.

Automatic Control of Stability of Slovenian Strong Motion Network

XY0403; EGU2007-A-11144; GI1-1TU5P-0403

Vidrih, R.; Sincic, P.; Tasic, I.; **Mali, M.**

Analysis of Real Time Seismic Data Transmission Used by Slovenian Seismic Network

XY0404; EGU2007-A-01860; GI1-1TU5P-0404

Asakawa, E.; Kawai, Y.; Takahashi, H.; Ogasawara, Y.; Saeki, T.

Real-time Seismic Cable System (2)

XY0405; EGU2007-A-05620; GI1-1TU5P-0405

Naslin, S.; Van Ruymbeke, M

Application of earth tides instrumentation in the measurement of the universal constant of gravitation G, technical description of our prototype

XY0406; EGU2007-A-06897; GI1-1TU5P-0406

Pálinkás, V.

Experiences with the ZLS Burris gravimeter

XY0407; EGU2007-A-10312; GI1-1TU5P-0407

Faz, A.; Martinez-Pagan, P.; Aracil, E.; Acosta, J.A.;

Martinez-Martinez, S.; Maruri, U.
Geochemical and geophysical characterization of two representative mining ponds from cartagena-union (se, spain) by using geochemical and geophysical techniques

XY0408; EGU2007-A-10319; GI1-1TU5P-0408

Lemperger, I.; Menvielle, M.; Pincon, J.L.; Szarka, L.;

Tarits, P.; Ubrankovics, Cs.; Kis, A.
Investigation of the lithosphere by using network magnetometer data

XY0409; EGU2007-A-02930; GI1-1TU5P-0409

Biavati, G.; Ghirotti, M.; Mazzini, E.; **Mori, G.;** Todini, E.;

Vettore, L.
Ground penetrating radar surveys of embankments on the Reno River and its tributaries (North-Eastern Italy)

XY0410; EGU2007-A-06640; GI1-1TU5P-0410

von Nicolai, C.; Kummerow, J.; Schilling, F.; Jahn, S.

Geometric Limitations of Ultrasonic measurements: The Effect of Sample Surface Geometry on Sidewall Reflections

XY0411; EGU2007-A-02043; GI1-1TU5P-0411

Tuo, X.G.; Mu, K.L.; Lei, J.R.; Li, X.Y.; Yang, X.M

A portable and high detection efficiency measure instrument

XY0412; EGU2007-A-09858; GI1-1TU5P-0412

van Ruymbeke, M.; Beauducel, Fr.; Somerhausen, A.;

Howard, R.; Naslin, S.; Cadicheanu, N.; Zhuping, Mr
Description of the HiCum method dedicated to periodical signals analysis

XY0413; EGU2007-A-00015; GI1-1TU5P-0413

Ndougsa-Mbarga, T.; Manguelle-Dicoum, E.; Kant-Sharma, K.

Integration of the finite element approach (fea) in gravity processing for a qualitative evaluation of solid minerals potentialities over the Congo Craton Belt in Cameroon and Southwest Central African Republic

XY0414; EGU2007-A-09566; GI1-1TU5P-0414

van Ruymbeke, M.; Somerhausen, A.

Evaluation of the level of detection of very weak geodynamical signals with the HiCum

XY0415; EGU2007-A-11322; GI1-1TU5P-0415

Yerel, S.; Ankara, H.

Examination of plate thicknesses using cluster analysis

G12 Atmosphere, Ocean and Meteorological Instruments (co-listed in AS, CL, OS, PS & ST)

Convener: Vivekanandan, J.

Co-Convener(s): Parsons, D., Rose, M.

Lecture Room 2

Chairperson: N.N.

8:30–8:45; EGU2007-A-07747; GI2-1TU1O-001

Rayner, P.; Nikinmaa, E.; Warnecke, T.; Sanz, M.J.; Valentini, R.; Jordan, A.; Ramonet, M.; Vesala, T.; Papale, D.; Ciais, P

An infrastructure for measurement of the European carbon cycle (IMECC)

8:45–9:00; EGU2007-A-09445; GI2-1TU1O-002

Thompson, R.; Heimann, M.; Manning, A.; Gloor, E.

Atmospheric measurements from the Ochsenkopf Tall Tower: a multi-species approach to studying the carbon cycle

9:00–9:15; EGU2007-A-10210; GI2-1TU1O-003
Merlaud, A.; De Maziere, M.; Van Roozendaal, M.; Hermans, C.; Everaerts, J.; Cornet, A.
 Regional monitoring of tropospheric NO₂ and CO using remote sensing from a HALE-UAV

9:15–9:30; EGU2007-A-00488; GI2-1TU1O-004
Khan, M.A.H.; Mead, M.I.; Nickless, G.; Shallcross, D.E.
 Sorbent tube sampling and automated thermal desorption system linked with ECD/MS/IRMS for halocarbon analysis

9:30–9:45; EGU2007-A-00417; GI2-1TU1O-005
Poehler, D.; Hartl, A.; Platt, U.
 Remote tomographic measurements of 2D trace gas distributions with LP-DOAS technique above the city of Heidelberg, Germany

9:45–10:00; EGU2007-A-08039; GI2-1TU1O-006
Ciais, P.; THE GEOMON TEAM
 Global Earth Observation and Monitoring - GEOMON

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-10972; GI2-1TU2O-001
Parmentier, R.; Sauvage, L.; Stachlewska, I.; Lardier, M.; Cariou, J.P.; Valla, M.
 An innovative compact heterodyne pulsed Doppler lidar for wind profiling in the PBL.

10:45–11:00; EGU2007-A-05672; GI2-1TU2O-002
Mayr, G. J.; Raab, T.
 Tracking the footprints of downslope windstorms with an automobile measurement system

11:00–11:15; EGU2007-A-07541; GI2-1TU2O-003
REVERDY, M.; Van Baelen, J.; Walpersdorf, A.; Boudevillain, B.
 Tomography sensitivity tests and comparisons of water vapor fields with radar data

11:15–11:30; EGU2007-A-09142; GI2-1TU2O-004
Lutz, S.; Troller, M.; Geiger, A.; Kahle, H.-G.
 High-resolution GPS tomography in the mountainous Canton of Valais (Switzerland)

11:30–11:45; EGU2007-A-03134; GI2-1TU2O-005
Alexandrov, M.; Laci, A.; Carlson, B.; Cairns, B.
 Characterization of fine and coarse modes of atmospheric aerosols using ground-based sun-photometry

11:45–12:00; EGU2007-A-05898; GI2-1TU2O-006
Vivekanandan, J.; Lee, W.; Loew, E.; Mayor, S.; Spuler, S.; Moore, J.
 Development of a Community Airborne Platform Remote-Sensing Interdisciplinary Suite (CAPRIS)

12:00 END OF SESSION

GI3 Instrumentation for Ocean Observatories and Early Warning Systems (co-listed in OS, NH & SM)

Convener: Waldmann, C.
 Co-Convener(s): Person, R., Favali, P.
 Lecture Room 2
 Chairperson: WALDMANN

13:30–14:00; EGU2007-A-05542; GI3-1TU3O-001
Massion, G.
 The ORION and MARS ocean observing systems: vision, details, progress and opportunities (solicited)

14:00–14:15; EGU2007-A-11216; GI3-1TU3O-002
Lintern, G.; Conway, K.; Hill, P.
 Slope stability and dredge disposal monitoring using VENUS

14:15–14:30; EGU2007-A-02367; GI3-1TU3O-003
Blandin, J.; Berndt, C.; Danobeitia, J.J.; Favali, P.; Gillooly, M.; Mienert, J.; Miranda, J.M.; Tselepidis, A.; Van Weering, T.; Waldmann, C.
 ESONET: a network to integrate European research on sea observatories

14:30–14:45; EGU2007-A-09434; GI3-1TU3O-004
Favali, P.; Beranzoli, L.; Italiano, F.; NEMO Collaboration
 NEMO-SN1 real-time cabled seafloor observatory (southern Italy): operation assessment after two years from the deployment and next perspectives.

14:45–15:00; EGU2007-A-06610; GI3-1TU3O-005
Schindler, U.; Diepenbroek, M.; Kopf, A.; Waldmann, C.; Grobe, H.; Visser, U.; Witte, J.
 PING: Pressure sensors in Intelligent Networks for Geohazard detection

15:00–15:15; EGU2007-A-11248; GI3-1TU3O-006
Waldmann, C.; Richter, L.; Wood, S.
 Deep Sea Crawlers for scientific Applications - an Overview about the State-of-the-Art

15:15 END OF SESSION

GI4 Instrumentation related to polar regions and the IPY (co-listed in AS, BG, CR & OS)

Convener: Rose, M.
 Co-Convener(s): Meldrum, D.
 Lecture Room 2
 Chairperson: N.N.

15:30–15:45; EGU2007-A-05214; GI4-1TU4O-001
Collins, K.J.
 AUV science in extreme environments into the next decade

15:45–16:00; EGU2007-A-10945; GI4-1TU4O-002
Williams, G.; Wilkinson, J.
 Under-ice oceanography of the NEW polynya region with an Autonomous Underwater Vehicle

16:00–16:15; EGU2007-A-08318; GI4-1TU4O-003
Forrest, A.; Bohm, H.; Laval, B.; Reid, D.; Andersen, D.; Magnusson, E.; Wilkinson, J.
 Small AUV deployment under ice: Pavilion Lake, B.C., Canada (a case study)

16:15–16:30; EGU2007-A-05849; GI4-1TU4O-004
Bottenheim, J.; Friess, U.; Matrai, P.; Perovich, D.; Shepson, P.; Simpson, W.
 O-buoys: self-contained, autonomous buoys for long-term observations of atmospheric chemical species in the polar marine boundary layer.

16:30–16:45; EGU2007-A-05414; GI4-1TU4O-005
Yamagishi, H.; Kadokura, A.; Turui, Y.; Osawa, J.; Sakaino, M.; Tanaka, N.
 Incorporation of satellite telephone data link into unmanned low power observation system in Antarctica

16:45–17:00; EGU2007-A-08559; GI4-1TU4O-006
Johns, B.; Anderson, K.; Beaudoin, B.; Parker, T.; White, S.
 Satellite communication solutions for remote Polar GPS and seismic networks

17:00 COFFEE BREAK

Chairperson: N.N.

17:30–17:45; EGU2007-A-02051; GI4-1TU50-001

Rose, M. C.

Variable speed wind generator control in Antarctica.

17:45–18:00; EGU2007-A-11193; GI4-1TU50-002

Uttal, T.; Makshtas, A.; Paatero, J.; Hansen, B.; Intrieri, J.
Establishing a new Climate Observatory in Tiksi, Russia

18:00–18:15; EGU2007-A-04395; GI4-1TU50-003

Weaver, R.; **Kaminski, M.**; Ballagh, L

NSIDC DAAC Data Sets and Services for the IPY

18:15–18:30; EGU2007-A-02201; GI4-1TU50-004

Frearson, N.; Corr, H

Making aliased images from sub-sampled signals, your friends!

18:30–18:45; EGU2007-A-09619; GI4-1TU50-005

Wilhelms, F.

Sub-glacial penetration from an ice driller's and a biologist's perspective

18:45–19:00; EGU2007-A-09214; GI4-1TU50-006

Cimini, D.; Westwater, E. R.; Klein, M.; Leuski, V.; Gasiewski, A. J.

The Ground-based Scanning Radiometer (GSR): a Tool for Polar Atmospheric Research

19:00 END OF SESSION

GI9 Down hole Instrumentation: Technology and Applications (co-listed in GM, GMPV, PS, SSP & SSS) – Posters

Convener: Gaillot, P.

Co-Convener(s): Celerier, B., Brewer, T.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0416; EGU2007-A-00528; GI9-1TU5P-0416

Esipko, O.; Gorbachev, V

Geophysical investigations in superdeep wells of Russia: results and problems

XY0417; EGU2007-A-00533; GI9-1TU5P-0417

Esipko, O.; Rosaev, A

The temperature monitoring in Vorotilovo Deep well and global climate warming

XY0418; EGU2007-A-10994; GI9-1TU5P-0418

Hung, J.H.; Ma, K.F.; Wang, C.Y.; Ito, H.; Lin, W.; Yeh, E.C.

Structural geology, physical properties, fault zone characteristics and stress state in scientific drill holes of Taiwan Chelungpu fault drilling project

XY0419; EGU2007-A-04805; GI9-1TU5P-0419

Yeh, E.C.; Gaillot, P.; Moe, K.T.; Lin, W.R.; Wu, Y.H.; Ito, H.; Wang, C.Y.; Song, S.R.

Log data and borehole image analysis of Hole-B, Taiwan Chelungpu-fault Drilling Project

XY0420; EGU2007-A-10472; GI9-1TU5P-0420

Glover, PWJ.; Bormann, M

The characterization of trough and planar cross-bedding from borehole image logs

XY0421; EGU2007-A-09006; GI9-1TU5P-0421

Smythe, W.; Boryta, M.

Borehole stratigraphy on Mars

XY0422; EGU2007-A-06616; GI9-1TU5P-0422

Sakamoto, T.; Iijima, K.; Sugisaki, S.

TATSCAN-S1, non-destructive diffuse spectroscopic (UV, Visible, and Near infra-red domains) 2-D imaging scanner of sediment/rock cores

XY0423; EGU2007-A-01108; GI9-1TU5P-0423

Duseja, D.; Dennis, S.; Wade, A.

Assessing ground water sources in underserved communities

XY0424; EGU2007-A-04809; GI9-1TU5P-0424

Carizzoni, M.

The propagation of acoustic waves to determine the soil strength of arable soils in situ.

Hydrological Sciences

HS1 Strategies to community building in hydrology (invited papers only) (co-listed in US)

Convener: Blöschl, G.

Co-Convener(s): Montanari, A.

Lecture Room 28 (B)

Chairperson: BLOESCHL G.

8:30–8:35 Introduction by Günter Bloeschl

8:35–9:05; EGU2007-A-02676; HS1-1TU10-001

Savenije, H.

Can we encourage scientists to work together? The Water-Net example. (solicited)

9:05–9:35; EGU2007-A-10041; HS1-1TU10-002

Wilson, J.L.

Can hydrologic scientists learn to speak up and with one voice? (solicited)

9:35–10:05; EGU2007-A-06052; HS1-1TU10-003

Carrera, J.

Community building in Hydrology: need or luxury? (solicited)

10:05 COFFEE BREAK

Chairperson: MONTANARI A.

10:30–11:00; EGU2007-A-08580; HS1-1TU20-001

BOLGOV, M.

the building of hydrological community (solicited)

11:00–11:30; EGU2007-A-08241; HS1-1TU20-002

Sivapalan, M

Some thoughts on a community science agenda for hydrology: Lessons learned from PUB and CUAHSI (solicited)

11:30–12:00; EGU2007-A-07580; HS1-1TU20-003

Hooper, R.; Duncan, J

Lessons learned from five years of community building in the USA (solicited)

12:00 LUNCH BREAK

Chairperson: BLOESCHL G.

13:30–14:00; EGU2007-A-11606; HS1-1TU30-001

Ludden, J.

What tools does Europe have to encourage community building in the geosciences, and how well do they work? (solicited)

14:00–14:30; EGU2007-A-10299; HS1-1TU3O-002

Balabanis, P.

Opportunities for hydrological research in the context of the European Community's research, technological development and demonstration activities (solicited)

14:30–15:00; EGU2007-A-11631; HS1-1TU3O-003

Szöllösi-Nagy, A.

Lessons and challenges for International Water Science Programmes (solicited)

15:00 END OF SESSION

HS4 Water storage, level and discharge from remote sensing and geodesy (co-listed in G & GI) – Posters

Convener: Kosuth, P.

Co-Convener(s): Benveniste, J.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 15:30–17:00

Poster Area Hall A

Chairperson: N.N.

A0184; EGU2007-A-07412; HS4-1TU4P-0184

Gennaro, M-C; Crétaux, J-F; **Daillet-Rochette, S;** Bergé-Nguyen, M; Cazenave, A; Calmant, S; Kouraev, A
Hydroweb: data center for lake and river level variations from altimetry

A0185; EGU2007-A-05834; HS4-1TU4P-0185

Cheng, K.; Calmant, S.; Seyler, F.; Shum, C.

River stage height measured by GPS and satellite altimetry in the Amazon Basin—A case study for GPS hydrology

A0186; EGU2007-A-10827; HS4-1TU4P-0186

Benveniste, J.; Berry, P.; Freeman, J.; Smith, R.

Envisat measuring global rivers and lakes level in near real time

A0187; EGU2007-A-00226; HS4-1TU4P-0187

Leon, J.G.; Seyler, F.; Calmant, S.; Bonnet, M-P; Cauhope, M.

Hydrological parameter estimation for ungauged basin based on satellite altimeter data and discharge modeling. A simulation for the Caqueta River (Amazonian Basin, Colombia)

A0188; EGU2007-A-02725; HS4-1TU4P-0188

Aricò, C.; Nasello, C.; Noto, M.T.; **Tucciarelli, T.**

Peak flow estimation by means of synchronous water level measurements

A0189; EGU2007-A-04145; HS4-1TU4P-0189

Shen, L.C.; Juang, J.C.; Tseng, C.L.; Tsai, C.L.

New Application of real time Remote sensing surface body water levels & discharge by Integrated GPS Receiver with Reflected GPS observations

A0190; EGU2007-A-07496; HS4-1TU4P-0190

Crétaux, J-F; Leblanc, M.; Tweed, S.; **Calmant, S.;** Ramil-lin, G.

Combining of Radar and laser altimetry, MODIS Remote Sensing and GPS for the monitoring of flood events: application to the flood plain of the Diamantina river.

A0191; EGU2007-A-01681; HS4-1TU4P-0191

shbeli, E

Water Harvesting Using Morphometric Analysis and GIS

A0192; EGU2007-A-07481; HS4-1TU4P-0192

Zribi, M.; André, C.; Otlé, C.; Guichaoua, M.; Habets, F.
A methodology for Floods mapping based on radar images over the SOMME French

A0193; EGU2007-A-10182; HS4-1TU4P-0193

Liebe, J.; van de Giesen, N.; Andreini, M.; Steenhuis, T.

Monitoring of small reservoirs storage volume with EN-VISAT ASAR, and suitability of small reservoirs as runoff gauges.

A0194; EGU2007-A-04066; HS4-1TU4P-0194

Fiedler, K.; Döll, P.; Hunger, M.

Global modelling of water storage change – sensitivity to different climate data sets

A0195; EGU2007-A-05743; HS4-1TU4P-0195

Werth, S.; Güntner, A.; Merz, B.

Calibration of the global hydrology model WGHM with water storage variations from the GRACE mission

A0196; EGU2007-A-07588; HS4-1TU4P-0196

Güntner, A.; Hacker, F.; Werth, S.; Hunger, M.; Döll, P.; Menzel, L.

Validation of simulated lake level dynamics of a global hydrological model

A0197; EGU2007-A-07606; HS4-1TU4P-0197

Hirschi, M.; Viterbo, P.; Seneviratne, S. I.

Comparison of GRACE-derived terrestrial water storage against basin-scale water-balance diagnostics

A0198; EGU2007-A-10137; HS4-1TU4P-0198

van der Wal, W.; Rangelova, E.; **Sideris, M.;** Wu, P.

Comparison of GRACE and hydrology mass variations in North America studied by means of principal component analysis

A0199; EGU2007-A-07585; HS4-1TU4P-0199

Tervo, M.; Virtanen, H.; Bilker-Koivula, M.; Mäkinen, J.; Vehviläinen, B.; Mäkinen, R.; Huttunen, M.

Comparison of watershed models in different spatial extents using GPS-derived vertical movements

HS6 Operational applications of remote sensing in water resources management and hydrology

Convener: Ludwig, R.

Co-Convener(s): Wagner, W., Bernier, M.

Lecture Room 30 (C)

Chairperson: LUDWIG, R.

15:30–15:45; EGU2007-A-00705; HS6-1TU4O-001

Scheffler, C.; Flügel, W.-A.; Krause, P.

Development of a temporal- spatial Disaggregation Scheme for coarse scale remotely sensed Soil Moisture Products

15:45–16:00; EGU2007-A-03965; HS6-1TU4O-002

Bartholomé, E.

Recent and on-going EO-based environmental monitoring activities in Africa at the Joint Research Centre: some lessons learnt regarding sustainable operation development (solicited)

16:00–16:15; EGU2007-A-01976; HS6-1TU4O-003

Weerts, A.H.; **Reggiani, P.;** De Jeu, R.; Alvarez, M.S.; Kwadijk, J.

Comparing soil moisture from Advanced Microwave Scanning Radiometer (AMSR_E) observations with two distributed hydrological models in an operational flood forecasting system

16:15–16:30; EGU2007-A-05697; HS6-1TU4O-004

Moene, A.F.; **Schüttemeyer, D.;** De Bruin, H.A.R

Basin-wide, year-round estimation of actual evaporation for the Volta Basin using remote sensing

16:30–16:45; EGU2007-A-07636; HS6-1TU4O-005
Bartsch, A.; Rupp, K.; Scipal, K.; Wagner, W.
 Global comparison of scatterometer derived soil moisture time series with runoff

16:45–17:00; EGU2007-A-02674; HS6-1TU4O-006
Vazifedoust, M.; Van Dam, J.C.; Feddes, R.A.; Bastiaanssen, W.G.M
 Disaggregation of remote sensing evapotranspiration data: from low to high spatial resolution

17:00 END OF SESSION

HS11 Fissured and karstified aquifers (co-listed in IG)

Convener: Maloszewski, P.
 Co-Convener(s): Birk, S., Gabrovsek, F., Sauter, M., Zechner, E.
 Lecture Room 31
 Chairperson: MALOSZEWSKI, P.

13:30–13:45; EGU2007-A-01495; HS11-1TU3O-001
Einsiedl, F.
 The self-purification potential of karst groundwater systems: Linking processes to hydrogeology (solicited)

13:45–14:00; EGU2007-A-00599; HS11-1TU3O-002
Noiriel, C.; Gouze, P.; Madé, B.
 Evolution of early karst: impact of mineralogy on the development of preferential flowpaths in carbonates.

14:00–14:15; EGU2007-A-02517; HS11-1TU3O-003
Gabrovsek, F.; Peric, B.
 Propagation of the flood pulses in the epiphreatic zone of karst aquifers: the case of Reka river system, Karst plateau, SW Slovenia

14:15–14:30; EGU2007-A-04252; HS11-1TU3O-004
Jazayeri, M.; Massonnat, G.; Jourde, H.
 Influence of observation scale on the hydrodynamic analysis of well tests in a fractured reservoir (Terrieu site, Montpellier, France)

14:30–14:45; EGU2007-A-11272; HS11-1TU3O-005
Hoetzi, H.; Flexer, A.; Guttman, J.; Bensabat, J.; Ali, W.; Yellin-Dror, A.
 Flow pattern of low permeability zones in a fissured karst aquifer - 3-D flow model of the Marsaba-Feshkah area, Dead Sea

14:45–15:00; EGU2007-A-06958; HS11-1TU3O-006
Arbel, Y.; Greenbaum, N.; Lange, J.; Inbar, M.
 Infiltration processes and flow rates – monitoring environmental & artificial tracers in cave drippings - Mt. Carmel, Israel.

15:00 END OF SESSION

HS11 Fissured and karstified aquifers (co-listed in IG) – Posters

Convener: Maloszewski, P.
 Co-Convener(s): Birk, S., Gabrovsek, F., Sauter, M., Zechner, E.
 Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 15:30–17:00
 Poster Area Hall A
 Chairperson: N.N.

A0200; EGU2007-A-11274; HS11-1TU4P-0200
Elgaouzi, J.; Sebilo, M.; Plagnes, V.; Ribstein, P.
 Characterization of nitrogen origins in karstic aquifers in watershed of Paris by measurement of the isotopic composition of various forms of nitrogen

A0201; EGU2007-A-01260; HS11-1TU4P-0201
Butscher, C.; Huggenberger, P.
 Intrinsic vulnerability assessment in karst areas: a numerical modeling approach

A0202; EGU2007-A-03225; HS11-1TU4P-0202
Birk, S.; Rehl, C.; Klimchouk, A.
 Numerical simulation of karst evolution in multi-storey artesian systems

A0203; EGU2007-A-08824; HS11-1TU4P-0203
Apuani, T.; Masetti, M.; Calloni, G.; Gritti, A.
 Hydrogeological characterization and 3D numerical modelling of the groundwater flow in an alpine area (Isola, San Giacomo Valley, Italy)

A0204; EGU2007-A-01691; HS11-1TU4P-0204
Böttcher, M.E.; Klein, S.; Schweske, H.
 Hydrogeochemical impacts of high water events on a karst system: A multi-tracer reaction-path and mixing model

A0205; EGU2007-A-09587; HS11-1TU4P-0205
Mieseler, T.; Bender, S.; **Wohnlich, S.**
 Multiple tracer tests for assessing fracture properties of sedimentary hard rocks

A0206; EGU2007-A-00542; HS11-1TU4P-0206
Chrysikopoulos, C.V.; **Masciopinto, C.**
 Field study of pathogen transport in a fractured aquifer

A0207; EGU2007-A-01843; HS11-1TU4P-0207
Molerio León, L.
 Thermo dynamical approach to cave development simulation (MTDC) in epigenetic karst

A0208; EGU2007-A-02234; HS11-1TU4P-0208
Garasic, M.G
 Some Types of Speleogenesis in Croatian Karst

A0209; EGU2007-A-06078; HS11-1TU4P-0209
Winkler, G.; Reichl, R.
 Rock specific hydraulic properties of fractured hard rocks considering internal fault zones in crystalline rocks of the Lower Austro-Alpine nappes

A0210; EGU2007-A-07241; HS11-1TU4P-0210
Kralik, M.; Humer, F.; Nurmi-Legat, J.; Hanus-Ilmar, A.; Grath, J.; Mirtl, M.; Grabner, M. T.; Halas, S.; Jelenc, M.
 A multi-isotope approach (N-, S-, O, Sr and Pb) to estimate the impact of long distance air pollution on sensitive alpine karst groundwater

A0211; EGU2007-A-08836; HS11-1TU4P-0211
Terrana, S.; Gambillara, R.; Scesi, L.; Martin, S.
 Hydro-geological characterization of the mine area of Servette-Chuc (Saint Marcel, Aosta Valley – Italy): permeability calculation and relationship with groundwater system.

A0212; EGU2007-A-09294; HS11-1TU4P-0212
Rossetto, R.; Baldi, B.; Perna, M.; Carmignani, L.
 Use of GIS hydrogeological databases for integrated water management.

A0213; EGU2007-A-09561; HS11-1TU4P-0213
Rossetto, R.; Baldi, B.; Perna, M.; Montinaro, A.; Carloni, A.; Carmignani, L.
 GIS hydrogeological mapping, scale 1:10000, of the Apuan Alps (Tuscany, Italy) karst and fissured groundwater systems.

HS14 Groundwater stochastic hydrology

Convener: Guadagnini, A.
Co-Convener(s): Bierkens, M.
Lecture Room 31
Chairperson: N.N.

8:30–8:45; EGU2007-A-00603; HS14-1TU10-001
Tartakovsky, D.

Coping with uncertainties in environmental modeling (solicited)

8:45–9:00; EGU2007-A-01422; HS14-1TU10-002
Fernández-García, D.; Salamon, P.; Sánchez-Vila, X.; Gómez-Hernández, J.
On the relative importance of heterogeneity and mass transfer processes at the Macro-Dispersion Experiment (MADE) site (solicited)

9:00–9:15; EGU2007-A-06174; HS14-1TU10-003
Carrera, J.; Willmann, M.; Sanchez-Vila, X.; Dentz, M.; Alcolea, A.
The path from stochastic theory to applications in groundwater transport (solicited)

9:15–9:30; EGU2007-A-03353; HS14-1TU10-004
Hendricks Franssen, H.J.; Doppler, T.; Kaiser, H.P.; Kuhlmann, U.; Stauffer, F.
Field evidence of a dynamic leakage coefficient. Studies with a 3D transient groundwater flow model of the upper Limmat valley (Switzerland).

9:30–9:45; EGU2007-A-05490; HS14-1TU10-005
Riva, M.; Neuman, S.P.; Guadagnini, A.; Ptak, T.
Geostatistical characterization of a fluvial unconfined aquifer based on pumping test data from four wells.

9:45–10:00; EGU2007-A-11187; HS14-1TU10-006
Illman, W.; Liu, X.; Craig, A.
Steady-state hydraulic tomography: the role of signal-to-noise ratio and conditioning on hydraulic conductivity tomograms

10:00 END OF SESSION

HS14 Groundwater stochastic hydrology – Posters

Convener: Guadagnini, A.
Co-Convener(s): Bierkens, M.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 15:30–17:00
Poster Area Hall A
Chairperson: N.N.

A0214; EGU2007-A-00071; HS14-1TU4P-0214
Luo, Miss; Mooney, Dr; Bailey, Dr
Quantification of Permeable Reactive Barrier Longevity by Image Analysis

A0215; EGU2007-A-00192; HS14-1TU4P-0215
Tartakovsky, A.M.; Tartakovsky, D.M.; Scheibe, T.D.
Lagrangian particle approach for stochastic simulations of flow and transport in porous media.

A0216; EGU2007-A-00305; HS14-1TU4P-0216
Abdul Rahman, A.
Determine the optimal location of observation wells in an heterogeneous unconfined Aquifer

A0217; EGU2007-A-01197; HS14-1TU4P-0217
Bardossy, A.; Li, J.
Simulation of random fields using non-Gaussian dependence

A0218; EGU2007-A-03196; HS14-1TU4P-0218
Wang, S.-J.; Hsu, K.-C.
The application of first-order second-moment method to quantify the uncertainty of poroelastic problems

A0219; EGU2007-A-04851; HS14-1TU4P-0219
Chen, K.-C.; **Hsu, K.-C.**
A generalized fractal model of flow and transport in randomly heterogeneous porous media

A0220; EGU2007-A-05471; HS14-1TU4P-0220
Dentz, MD
Exact Transport Upscaling under Spatial Random Adsorption

A0221; EGU2007-A-05995; HS14-1TU4P-0221
Schwede, R.; **Cirpka, O.A.**
Probability density functions of solute concentration in heterogeneous aquifers (solicited)

A0222; EGU2007-A-06561; HS14-1TU4P-0222
Alcolea, A.; Renard, P.; Cornaton, F.; Comunian, A.; Kerrou, J.; Mariethoz, G.
GIM (Groundwater Integrated Modelling). The hydrogeological compiler (solicited)

A0223; EGU2007-A-09800; HS14-1TU4P-0223
Suciu, N.; Vamos, C.; Vereecken, H.; Sabelfeld, K.; Knabner, P.
Memory effects induced by dependence on initial conditions of transport in heterogeneous media

A0224; EGU2007-A-09861; HS14-1TU4P-0224
Suciu, N.; Vamos, C.; Vereecken, H.; Sabelfeld, K.; Knabner, P.
Non-ergodic behavior of “ergodic plumes”

A0225; EGU2007-A-09120; HS14-1TU4P-0225
Onnis, G.A.; Althaus, R.; Klump, S.; Hendricks Franssen, H.-J.; Kipfer, R.; Purtschert, R.; Stauffer, F.; Kinzelbach, W.
Use of environmental Tracer Data for Groundwater Modeling

HS17 Unsaturated zone flow and transport processes: from science to soil and water management

Convener: Vanclooster, M.
Co-Convener(s): Ferraris, S., Coppola, A.
Lecture Room 31
Chairperson: N.N.

10:30–10:45; EGU2007-A-05215; HS17-1TU2O-001
Vanderborght, J.; Vereecken, H.
Identification and parameterisation of 1-D transport models using multi-dimensional flow and transport simulations

10:45–11:00; EGU2007-A-02525; HS17-1TU2O-002
de Jong van Lier, Q.; Van Dam, J.C.; Metselaar, K.; de Jong, R.; Duijnisveld, W.H.M
Macroscopic root water uptake distribution using a matrix flux potential approach

11:00–11:15; EGU2007-A-03918; HS17-1TU2O-003
Boulet, G.; Mougenot, B.; Chehbouni, G.; Benabdelouahab, T
Constraining soil hydrodynamic properties using time series of remotely sensed surface temperature

11:15–11:30; EGU2007-A-02561; HS17-1TU2O-004
de Vos, J.A.; Hoving, I.E.; van Bakel, P.J.T
Waterpas: effects of water management on agriculture

11:30–11:45; EGU2007-A-04550; HS17-1TU2O-005
GHAZAVI, Gh.; THOMAS, Z.; MEROT, Ph.
Relationship between soil-water content and hedgerow root-distribution pattern in the unsaturated zone

11:45–12:00; EGU2007-A-10549; HS17-1TU2O-006
Müller, C.; **Sauer, T.**; Schneider, R.; Seeger, M.
Improved soil water balance of compacted soils by deep loosening? An effectivity assessment with field experiments, discharge monitoring and modelling

12:00–12:15; EGU2007-A-03885; HS17-1TU2O-007
Legout, C.; Molenat, J.; Hamon, Y.; Morin, E.; Gascuel-Odoux, C.
Effect of water table fluctuations on solute transport: column experiments and modelling

12:15–12:30; EGU2007-A-10348; HS17-1TU2O-008
THEVENOT, M.; Dousset, S.; Hertkorn, N.; Schmitt-Kopplin, P.; Andreux, F.
Interactions of diuron with dissolved organic matter from organic amendments

12:30 END OF SESSION

HS17 Unsaturated zone flow and transport processes: from science to soil and water management – Posters

Convener: Vanclooster, M.
Co-Convener(s): Ferraris, S., Coppola, A.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 15:30–17:00
Poster Area Hall A
Chairperson: N.N.

A0226; EGU2007-A-00070; HS17-1TU4P-0226
Moret, D.; Saâdi, Z.; Haverkamp, R.
Determination of the soil hydraulic properties by simultaneous analysis of soil water cumulative infiltration and transient soil water content

A0227; EGU2007-A-00888; HS17-1TU4P-0227
Sobotkova, M.; Snehota, M.; Cislerova, M.
The effect of initial water saturation on the solute transport

A0228; EGU2007-A-04068; HS17-1TU4P-0228
Shokri, N.; Lehmann, P.; Vontobel, P.; Or, D.
Evaporation rates and drying front morphology in sand-filled Hele-Shaw cells under different boundary conditions observed with neutron transmission technique

A0229; EGU2007-A-04282; HS17-1TU4P-0229
Bormann, H.
Evaluation of the suitability of soil texture classification schemes for regional scale hydrological modelling

A0230; EGU2007-A-04562; HS17-1TU4P-0230
Thomas, Z.; Ghazavi, Gh.; Merot, Ph.
How do interactions between hedgerow networks and bottomland control groundwater recharge and discharge?

A0231; EGU2007-A-05932; HS17-1TU4P-0231
Stenemo, F.; Lindahl, AML; Gärdenäs, A.; Jarvis, N.
Meta-modelling of the pesticide fate model MACRO for groundwater vulnerability assessments

A0232; EGU2007-A-06431; HS17-1TU4P-0232
Bracic Zeleznik, B.; Zupanc, V.; Pintar, M.; Kacjan, N.
Experimental Field designed for Nitrate Migration Processes Studies in a Plant-Soil Water-Groundwater System

A0233; EGU2007-A-00418; HS17-1TU4P-0233
Zumr, D.; Dohnal, M.; Císlarová, M.
Effect of root water uptake on water dynamics of soil with preferential pathways

A0234; EGU2007-A-07969; HS17-1TU4P-0234
De Santis, A.; **Iovino, M.**
Soil hydraulic characterization from evaporation and unit hydraulic gradient experiments

A0235; EGU2007-A-08143; HS17-1TU4P-0235
Emerstorfer, N.; Klik, A.; Kammerer, G.
Estimation of groundwater recharge in a stony soil based on monitoring of soil hydraulic data

A0236; EGU2007-A-06528; HS17-1TU4P-0236
Monego, M.; Passadore, G.; Sartori, M.; Putti, M.; Altissimo, L.; Sottani, A.; Rinaldo, A.
The influence of low permeability lenses on artificial groundwater recharge

A0237; EGU2007-A-08986; HS17-1TU4P-0237
Facchi, A.; Baroni, G.; Gandolfi, C.; Ortuali, B.; Horeschi, D.; Mancini, M.; Montaldo, N.
Towards a comparative study of unsaturated flow models at different spatial scales: the monitoring activity at the point and plot scales

A0238; EGU2007-A-09023; HS17-1TU4P-0238
Bethge, E.; Mohrlök, U.
Impact of Flood Water Infiltration on Groundwater Quality: the Role of the vadose Zone

A0239; EGU2007-A-09880; HS17-1TU4P-0239
Zumr, D.; Snehota, M.; Hejtmánková, V.; Sobotková, M.; Dohnal, M.; Císlarová, M.
2D simulation of the tension infiltration experiment on the heterogeneous cambic soil

A0240; EGU2007-A-09949; HS17-1TU4P-0240
Snehota, M.; Sobotkova, M.; Jelinkova, V.; Cislerova, M.
Hydraulic conductivity and entrapped air in heterogeneous soil: laboratory experiment

A0241; EGU2007-A-07018; HS17-1TU4P-0241
Banti, M.; Zisis, Th.; Anastasiadou-Partheniou, E.
Numerical simulation of surface-subsurface flow interaction during border irrigation

A0242; EGU2007-A-11114; HS17-1TU4P-0242
Coppola, A.; **De Simone, L.**; Comegna, V.
Non-point-source groundwater vulnerability assessments at regional scale by coupling of GIS and transfer function

HS22 River and stream temperature: dynamics, processes, models and implications

Convener: Hannah, D.
Co-Convener(s): Nobilis, F.
Lecture Room 31
Chairperson: HANNAH, D.

15:30–15:45; EGU2007-A-02645; HS22-1TU4O-001
Webb, B.; Nobilis, F.
Stream and river temperatures - a cinderella of water quality studies? (solicited)

15:45–16:00; EGU2007-A-01723; HS22-1TU4O-002
Rutten, M.; van de Giesen, N.; Baptist, M.; Icke, J.; Uijttewaal, W.
Seasonal forecast of cooling water problems in the River Rhine

16:00–16:15; EGU2007-A-08280; HS22-1TU4O-003
Laaha, G.; Skoien, J.; Nobilis, F.; Bläschl, G.
Regionalisation of stream temperatures in Austria by external drift Top-kriging

16:15–16:30; EGU2007-A-10813; HS22-1TU4O-004

Melvold, K.; Kvambekk, Å.S.

Water temperature changes in small streams in Norway due to hydro power development

16:30–16:45; EGU2007-A-10490; HS22-1TU4O-005

Cardenas, B.M.; **Wilson, J.L.**

Heat transport in the hyporheic zone as controlled by interaction of a turbulent current with bedforms

16:45–17:00; EGU2007-A-05458; HS22-1TU4O-006

Herb, W.; Janke, B.; Mohseni, O.; Stefan, H.

Thermal pollution of trout streams from stormwater runoff

17:00–17:15; EGU2007-A-00515; HS22-1TU4O-007

Brown, L.E.; Hannah, D.M.; Milner, A.M.

Multi-scale thermal variability in alpine streams

17:15–17:30; EGU2007-A-01528; HS22-1TU4O-008

Bacon, P.J.; Gurney, W.S.C.; Thorley, J.; Tetzlaff, D.; Malcolm, I.; Gibbins, C.; Soulsby, C.; Youngson, A.F.

Salmonid population dynamics, river temperatures and flows: extracting information from the variability of fish Sizes-At-Ages.

17:30 END OF SESSION

HS33 Monitoring network design and new instrumentation in hydrology – Posters

Convener: Borga, M.

Co-Convener(s): Grathwohl, P.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 15:30–17:00

Poster Area Hall A

Chairperson: N.N.

A0243; EGU2007-A-00649; HS33-1TU4P-0243

Longuevergne, L.; Oudin, L.; Boudin, F.; Florsch, N.; Vincent, T.; Kammenthaler, M.

Quantifying and locating water stored within a catchment thanks to ground geodesy

A0244; EGU2007-A-02581; HS33-1TU4P-0244

Bechini, R.; Cremonini, R.; Campana, V.; Tomassone, L.

A new transportable polarimetric X-band radar for accurate rainfall measurement in Alpine basins

A0245; EGU2007-A-03751; HS33-1TU4P-0245

Molénat, J.; Gruau, G.; **Ruiz, L.;** Gascuel-Oudou, C.; Aquilina, L.; Mérot, P.

The French Observatory AgrHys : an outdoor laboratory to study hydrological and hydrochemical fluxes and processes in agricultural catchments

A0246; EGU2007-A-04622; HS33-1TU4P-0246

Hauck, C.; Kalthoff, N.; Königer, F.; Kohler, M.; **Krauss, L.;** Mayer, M.; Preko, K.; Rings, J.

Innovative methods for soil moisture monitoring on different spatial scales

A0247; EGU2007-A-07361; HS33-1TU4P-0247

Bogena, H.; Schulz, K.; Vereecken, H.

TERENO - Towards a Network of Terrestrial Observatories in Environmental Research

A0248; EGU2007-A-07501; HS33-1TU4P-0248

Barrenetxea, G.; Bystranowski, M.; Couach, O.; Krichane, M.; Parlange, M.; Selker, J.; Varidel, T.; Vetterli, M.

SensorScope: on-line urban environmental monitoring network

A0249; EGU2007-A-08350; HS33-1TU4P-0249

Valencia, J.L.; Tarquis, A.M.; Gascó, J.M.

SOM algorithm applied to Ebro sub river basins aggregation.

A0250; EGU2007-A-08861; HS33-1TU4P-0250

Cusimano, G.; Favara, R.; Gagliano Candela, E.; Hauser, S.; Nigro, F.; Pisciotto, A.; Provenzano, M.C.; Renda, P.; Scaletta, C.

Groundwater resources assessment of the Sicilian region, Italy

A0251; EGU2007-A-09417; HS33-1TU4P-0251

Lobe, I.; Baborowski, M.; Rupp, H.; Meissner, R.; Krüger, F.; v. Tümpling, W.

Use of borosilicate suction cups as sampling strategy for investigating the inundation-induced release of organic and inorganic pollutants in a floodplain soil

A0252; EGU2007-A-09711; HS33-1TU4P-0252

Norbiato, D.; Borga, M.

Space and time rainfall sampling required for analysis of flash flood dynamics

A0253; EGU2007-A-09934; HS33-1TU4P-0253

Kodes, V.; Hypr, D.

Mobile centrifuge as a useful device for monitoring of suspended sediment contamination

A0254; EGU2007-A-11243; HS33-1TU4P-0254

La Vigna, F.; Mazza, R.; Taviani, S.; Teoli, P.; Capelli, G.

Development of a modern hydrogeological monitoring network in urban contest – The case of Acque Albule Plain, Central Italy, Latium Region, Rome

A0255; EGU2007-A-11295; HS33-1TU4P-0255

Hejduk, L.; Banasik, K.

Methods of suspended sediment measurement: an example from the Zagozdzonka river catchment in Poland

A0256; EGU2007-A-11294; HS33-1TU4P-0256

Tropeano, R.; Guglielmi, M.; Furcolo, P.; Rossi, F.

Statistical modelling for rainfall monitoring network optimization

A0257; EGU2007-A-11578; HS33-1TU4P-0257

Szolgay, J.; Kohnova, S.; Blaskovicova, L.; Benko, M.

Flood Warning and Forecasting System of the Slovak Republic

HS37 Sustainable catchment management: assessing water quality on the catchment scale

Convener: Bormann, H.

Co-Convener(s): Fohrer, N., Voltz, M., Bogen, H.

Lecture Room 28 (B)

Chairperson: N.N.

15:30–15:45; EGU2007-A-03952; HS37-1TU4O-001

Rothwell, J.J.; Evans, M.G.; Lindsay, J.B.; Allott, T.E.H.

Modelling suspended sediment Pb concentrations in upland catchments in the southern Pennines, UK

15:45–16:00; EGU2007-A-02753; HS37-1TU4O-002

Tetzlaff, B.; Wendland, F.

Aerial photograph-based delineation of artificially drained areas and their relevance for water balance and nutrient modeling in large river basins

16:00–16:15; EGU2007-A-04073; HS37-1TU4O-003

Rabiet, M.; Coquery, M.; Margoum, C.; Guillemain, C.; Gouy, V.; Carlier, N.

Distribution and fate of pesticides and trace metals in a small stream draining an agricultural watershed – Assessing the effect of hydrological conditions on the transport of contaminants.

16:15–16:30; EGU2007-A-00727; HS37-1TU4O-004
Krause, S.; Heathwaite, A. L.; Binley, A.; Kaeser, D.; Zhang, H.; Bronstert, A.; Zehe, E.
 Incorporating spatial pattern of exchange fluxes and nitrate attenuation in the hyporheic zone in model representations of the riparian zone hydrochemistry

16:30–16:45; EGU2007-A-08362; HS37-1TU4O-005
Schmalz, B.; Fohrer, N.
 Assessment of nutrient sources and entry pathways in lowland river catchments

16:45–17:00; EGU2007-A-08087; HS37-1TU4O-006
Jackson, B.; Wade, A.; Butterfield, D.; Wheeler, H.; McIntyre, N.
 Long term modelling of water quality in Chalk catchments

17:00–17:15; EGU2007-A-06511; HS37-1TU4O-007
Rode, M.; Hesser, F.B.; Kralisch, S.; Franko, U.
 Spatially distributed lateral nitrate transport modelling in subsurface flow at the catchment scale

17:15–17:30; EGU2007-A-08150; HS37-1TU4O-008
Bardowicks, K.; Billib, M.; Boochs, P.; Arumí, J.L.; Holzapfel, E.
 Impact of irrigation systems on the water resources at the basin scale

17:30 END OF SESSION

HS46 Hydroinformatics: computational intelligence and technological developments in water science applications (co-listed in NH & GI)

Convener: Solomatine, D.
 Co-Convener(s): Abrahart, R., See, L., Toth, E., Dawson, C., Han, D., Coulibaly, P., Jain, A., Shamseldin, A.
 Lecture Room 30 (C)
 Chairperson: N.N.

8:30–8:45; EGU2007-A-09489; HS46-1TU1O-001
Rogers, D.; Gastaldi, M.; Figliolini, A.
 Application of neural networks to manage leakage from water distribution networks

8:45–9:00; EGU2007-A-10733; HS46-1TU1O-002
Kourakos, G.; Mantoglou, A.
 Management of coastal aquifers using variable density models and neural network approximations

9:00–9:15; EGU2007-A-06483; HS46-1TU1O-003
Usai, M.; Gessa, S.; Fanni, A.
 Feature extraction and data reduction techniques for groundwater monitoring based on neural networks

9:15–9:30; EGU2007-A-02147; HS46-1TU1O-004
Bayer, P.; Finkel, M.
 Combination of Automated Learning and Evolutionary Computation for fast stochastic Optimization of Groundwater Management Problems

9:30–9:45; EGU2007-A-10606; HS46-1TU1O-005
Dakhlaoui, H.; Bargaoui, Z.
 A Hybrid SCE-UA-KNN optimisation method applied to the Calibration of HBV model

9:45–10:00; EGU2007-A-06242; HS46-1TU1O-006
Mediero, L.; Garrote, L.; Llasat, M.C.
 Probabilistic calibration of a distributed rainfall-runoff model for the generation of synthetic flood events

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-06472; HS46-1TU2O-001
Jacquin, A.P.; **Shamseldin, A.Y.**
 Analysis of predictive uncertainty of environmental models using a possibilistic approach

10:45–11:00; EGU2007-A-02822; HS46-1TU2O-002
Patil, S.; Bárdossy, A.
 Assessment of aptness of purely data driven and data-plus-knowledge driven techniques to derive transfer function for precipitation loss

11:00–11:15; EGU2007-A-08939; HS46-1TU2O-003
Märker, M.; Pelacani, S.; Rodolfi, G.
 Regionalization of soil hydrological characteristics in an intramontane basin in the Northern Apennines (Tuscany, Italy).

11:15–11:30; EGU2007-A-10896; HS46-1TU2O-004
Gaitán, C.; Obregón, N.; Vanegas, M.
 Long Term Rainfall Predictive Model by Using ANN and Precipitation Data Sets Gathered at Multiple Raingauges of the Northwestern Coast of South-America

11:30–11:45; EGU2007-A-02487; HS46-1TU2O-005
Chen, S.T.; Yu, P.S.
 Pruning of hidden nodes in support vector networks on flood forecasting

11:45–12:00; EGU2007-A-09154; HS46-1TU2O-006
Gerald Corzo, G.C.; Dimitri Solomatine, D.S.
 Exhaustive optimization of modular ANN models in flow forecasting

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2007-A-01070; HS46-1TU3O-001
Parasuraman, K.; Elshorbagy, A.
 Model structure uncertainty in characterizing hydrological processes and its quantification using genetic-programming

13:45–14:00; EGU2007-A-07037; HS46-1TU3O-002
Shrestha, D.L.; Solomatine, D.
 Comparing machine learning approaches in estimating model uncertainty of hydrological conceptual models

14:00–14:15; EGU2007-A-10985; HS46-1TU3O-003
Vargas, A.; **Obregon, N.**
 Application of genetic programming to synthetic unit hydrograph estimation

14:15–14:30; EGU2007-A-01016; HS46-1TU3O-004
Pshenichny, C.; Fedukov, R.; Nikolenko, S.
 Formal treatment of knowledge in water science by means of event bush

14:30–15:00; EGU2007-A-11550; HS46-1TU3O-005
Abrahart, R.J.
 Hydroinformatics: moving from rags to riches (solicited)

15:00 END OF SESSION

HS46 Hydroinformatics: computational intelligence and technological developments in water science applications (co-listed in NH & GI) – Posters

Convener: Solomatine, D.

Co-Convener(s): Abrahart, R.; See, L.; Toth, E.; Dawson, C.; Han, D.; Coulibaly, P.; Jain, A.; Shamseldin, A.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 15:30–17:00

Poster Area Hall A

Chairperson: N.N.

A0258; EGU2007-A-05037; HS46-1TU4P-0258

Abrahart, R.J.; Heppenstall, A.J.; See, L.M.

Neural network forecasting of suspended sediment load in the Schuylkill River

A0259; EGU2007-A-09547; HS46-1TU4P-0259

Bürger, C.; Finkel, M.; Kolditz, O.

Evolutionary optimization of an in-situ remediation system – Problem encoding and uncertainty

A0260; EGU2007-A-11567; HS46-1TU4P-0260

Alfonso, L.; Jonoski, A.; Solomatine, D.

Optimisation of operational responses to non-deliberate contamination events in water distribution networks

A0261; EGU2007-A-08101; HS46-1TU4P-0261

Teschl, R.; Randeu, W. L.; Teschl, F.

A feed forward neural network model for river flow forecasting

A0262; EGU2007-A-07942; HS46-1TU4P-0262

Cannas, B.; Fanni, A.; Montisci, A.; Sias, G.; **Usai, M.**

Adapting neural networks for river flow forecasting

A0263; EGU2007-A-07522; HS46-1TU4P-0263

Dawson, C.W.; Abrahart, R.J.

Evaluation of two different methods for using the antecedent precipitation index in neural network river stage forecasting

A0264; EGU2007-A-08953; HS46-1TU4P-0264

Abrahart, R.J.; See, L.M.

Let's accentuate the negative: using feedback loops to examine and compare four different neural network river discharge forecasters

A0265; EGU2007-A-01827; HS46-1TU4P-0265

Parasuraman, K.; Elshorbagy, A.; Bachu, L.; Keshta, N.

Evaluating the Performance of Neural Networks in Modeling Soil Moisture

A0266; EGU2007-A-06572; HS46-1TU4P-0266

Latu, K.; **Shamseldin, A.Y.**

A neural network model for forecasting daily water demand in the Auckland region

A0267; EGU2007-A-09665; HS46-1TU4P-0267

Siek, M.; Solomatine, D.

Tree-like machine learning models in hydrologic forecasting: optimality and expert knowledge

A0268; EGU2007-A-00364; HS46-1TU4P-0268

Mavrova-Guirguinova, M.; Gulev, K.

Wind Wave Dimensions Estimation based on ANNs

A0269; EGU2007-A-11211; HS46-1TU4P-0269

Markus, M.; Bajcsy, P.; Hejazi, M.; Yang, L.

Prediction of weekly fluctuations of nitrate-N in a small agricultural watershed in Illinois

A0270; EGU2007-A-10585; HS46-1TU4P-0270

Zarkami, R.; Goethals, P.L.M.; De Pauw, N.

Predictive pike (*Esox lucius*) and tench (*Tinca tinca*) population models based on classification trees

A0271; EGU2007-A-04071; HS46-1TU4P-0271

Peters, J.; Verhoest, N.; De Baets, B.; Samson, R.

The random forests technique: an application in eco-hydrologic distribution modelling

A0272; EGU2007-A-06936; HS46-1TU4P-0272

Hauer, C.; Habersack, H.

Description and Evaluation of decisive morphodynamic parameters for successful spawning including different case studies of Austrian Rivers

A0273; EGU2007-A-05901; HS46-1TU4P-0273

Kim, N. W.; Chung, I. M.; **Lee, J.;** Won, Y. S.

Application of combined SWAT-MODFLOW model to the Musim River Basin in Korea

A0274; EGU2007-A-05911; HS46-1TU4P-0274

Kim, N. W.; Lee, J. E.; Lee, B. J.

On the characteristics of flow duration curve according to the operation of multi-purpose dams in Han-river basin

A0275; EGU2007-A-08398; HS46-1TU4P-0275

Nigro, F.; Pisciotto, A.; Favara, R.; Renda, P.

The runoff map of Sicily

A0276; EGU2007-A-08487; HS46-1TU4P-0276

Pisciotto, A.; Nigro, F.; Favara, R.; Renda, P.

Hydrogeological model of the central-eastern sector of Sicily

A0277; EGU2007-A-01538; HS46-1TU4P-0277

Szuics, P.; Roland, R.N.

The Application of the ACE Algorithm to Interpret Karst Aquifer Monitoring Data

A0278; EGU2007-A-10923; HS46-1TU4P-0278

van den Acker, O.; van Dijk, M.; **Donchyts, G.;** Heynert, K.; Werner, M.

The application of Service-Oriented Architecture (SOA) as a basis for Delft Flood Early Warning System (Delft-FEWS) development (solicited)

A0279; EGU2007-A-09367; HS46-1TU4P-0279

Pierleoni, A.; Bellezza, M.; Casadei, S.; Manciola, P.

Decision support systems nested in a common base of complex datasets: experiences in Central Italy

A0280; EGU2007-A-07353; HS46-1TU4P-0280

Abrahart, R.J.; Dawson, C.W.; Han, D.; Coulibaly, P.; Jain, A.; Shamseldin, A.Y.

Hydroinformatics Forecasting Contest I: motivation, catchment description and performance benchmarking

A0281; EGU2007-A-01391; HS46-1TU4P-0281

See, L.; Heppenstall, A.

Applying an instance-based learning approach to the Bird Creek dataset

A0282; EGU2007-A-05043; HS46-1TU4P-0282

Heppenstall, A.J.; **Abrahart, R.J.**

Neuroevolution modelling applied to the HFC Bird Creek Data Set

A0283; EGU2007-A-06657; HS46-1TU4P-0283

Shamseldin, A.Y.

Development of neural network based models for real-time river forecasting in the Bird Creek catchment

A0284; EGU2007-A-07183; HS46-1TU4P-0284

Dawson, C.W.; Abrahart, R.J.

Backpropagation of error modelling applied to the HFC Bird Creek Data Set

A0285; EGU2007-A-08117; HS46-1TU4P-0285

Bray, M

Support Vector Machines for flood forecasting

A0286; EGU2007-A-09670; HS46-1TU4P-0286
Bravo, J. M.; Uvo, C. B.; Collischonn, W.
 River flow forecast based on previous precipitation and streamflow information using artificial neural networks

A0287; EGU2007-A-09855; HS46-1TU4P-0287
Abrahart, R.J.; See, L.M.
 M5 model tree applied to the HFC Bird Creek Data Set

A0288; EGU2007-A-09939; HS46-1TU4P-0288
Parviz, L.; Kholghi, M
 Streamflow Forecasting Using Temporal And Spatial Disaggregation Method

A0289; EGU2007-A-07301; HS46-1TU4P-0289
Dawson, CW; Abrahart, RJ
 Hydroinformatics Forecasting Contest 1: comparison of results and construction of ensemble forecasts (solicited)

HS49 Dryland hydrology – Posters

Convener: Kirkby, M.
 Co-Convener(s): Gallart, F., Sivapalan, M.
 Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 15:30–17:00
 Poster Area Hall A
 Chairperson: N.N.

A0290; EGU2007-A-08649; HS49-1TU4P-0290
Llorens, P.; Domingo, F.
 A review of rainfall partitioning by vegetation under Mediterranean conditions in Europe.

A0291; EGU2007-A-10008; HS49-1TU4P-0291
Fernández-Gálvez, J.; del Barrio, G.; Solé-Benet, A.
 Soil water content evolution in the headwaters of a semiarid catchment and its control by topographic attributes

A0292; EGU2007-A-04808; HS49-1TU4P-0292
Hatch, J.; Ainslie, C.; Columbo, C.; Walker, H.; Gu, W
 Vadose water content within the surface layer of a megadune

A0293; EGU2007-A-01257; HS49-1TU4P-0293
Dalen, E.N.; Kirkby, M.J.; Chapman, P.J.; Bracken, L.J.
 Runoff generation in SE Spain

A0294; EGU2007-A-03685; HS49-1TU4P-0294
Buis, E.; Veldkamp, A.
 Modelling dynamic water redistribution patterns in arid catchments in the Negev Desert of Israel

A0295; EGU2007-A-06684; HS49-1TU4P-0295
Francke, T.; Batalla, R.; Mamede, G.; Mueller, E.N.
 Suspended-sediment fluxes at the hillslope and catchment scale during a season of monitoring erosion hot spots in the Isábena catchment (Central Spanish Pyrenees)

A0296; EGU2007-A-08685; HS49-1TU4P-0296
Bicalho, C.; Perrin, J.L.; Tournoud, M.G.; Cernesson, F.; Bailly-Comte, V.
 Switches between dry and non-dry flowing regimes in an intermittent river influenced by karstic springs.

A0297; EGU2007-A-05580; HS49-1TU4P-0297
Obermann, M.; Perrin, J.L.; Tournoud, M.G.; Froebrich, J.
 Impact of flush pulses in semi-arid temporary rivers - experiences of modelling particulate organic matter

A0298; EGU2007-A-07489; HS49-1TU4P-0298
Mamede, G.L.; Bronstert, A.; Araújo, J.C.; Batalla, R.J.; Güntner, A.; Francke, T.; Müller, E.N.
 Effects of small reservoirs on water and sediment budgets in semiarid areas

A0299; EGU2007-A-04914; HS49-1TU4P-0299
Bolgov, M.; Trubetskova, M.
 Rain runoff on the territory of Mongolia

A0300; EGU2007-A-05704; HS49-1TU4P-0300
Schwanghart, W.; Klinger, R.; Schütt, B
 Ephemeral channels in the steppe region of Mongolia - geomorphometric analysis and hydrological implications

A0301; EGU2007-A-07740; HS49-1TU4P-0301
Irvine, B.J.; Kirkby, M.J.
 Ephemerality: spatial extent and catchment condition

A0302; EGU2007-A-02684; HS49-1TU4P-0302
De Girolamo, A. M.; Lo Porto, A.; De Luca, D.; Abouabdillah, A.; Santese, G
 Evaluation of flow regime in the Mediterranean streams using flashiness index

A0303; EGU2007-A-08696; HS49-1TU4P-0303
Müller, E.N.; Araújo, J.C.; Batalla, R.; Francke, T.; Güntner, A.; Mamede, G.; Bronstert, A.
 Erosion and Sediment Transport - Measurement and Modelling from Headwaters to large Catchments: A Research Project to reduce Reservoir Sedimentation in semi-arid Environments

A0304; EGU2007-A-10811; HS49-1TU4P-0304
Kuells, C.;
 Large basins as isotopic monitors of hydrologic response in arid zones

Magnetism, Palaeomagnetism, Rock Physics & Geomaterials

MPRG05 Paleomagnetism, Climate and Environmental magnetism (co-listed in CL and SSP)

Convener: Thouveny, N.
 Co-Convener(s): Williamson, D.
 Lecture Room 34
 Chairperson: N.N.

15:30–15:45; EGU2007-A-07659; MPRG05-1TU4O-001
Larrasoana, J.C.; Roberts, A.P.; Musgrave, R.J.; Gràcia, E.; Piñero, E.; Vega, M.; Martínez-Ruiz, F.
 Biomineralization of greigite and pyrrhotite in gas hydrate marine sediments (ODP Leg 204, southern Hydrate Ridge)

15:45–16:00; EGU2007-A-08924; MPRG05-1TU4O-002
Laj, C.; Kissel, C.; Rebolledo-Vieyra, M.; Zheng, H.; Li, J
 An overview of the magnetic properties of sediments from the South China Sea and their paleoenvironmental significance

16:00–16:15; EGU2007-A-03110; MPRG05-1TU4O-003
Blanchet, C.; Thouveny, N.; Vidal, L.
 Oxygenation of bottom waters in Santa Barbara Basin during the last 35 ka: A Questioning Contribution from Sedimentary Magnetism

16:15–16:30; EGU2007-A-06163; MPRG05-1TU4O-004
Pilipenko, O.; Novruzov, Z.; Abrahamsen, N.; Sharonova, Z.; Trubikhin, V.
 Magnetic record of Late Quaternary sediments from the Karadja Range section, Azerbaijan

16:30–16:45; EGU2007-A-05986; MPRG05-1TU4O-005
Løvlie, R.L.; Paasche, ØP
 Sedimentary sources within a glacierized catchment identified by magnetic signatures and grain size distribution

16:45–17:00; EGU2007-A-02211; MPRG05-1TU4O-006
Sagnotti, L.; Macri, P.; Egli, R.
 Magnetic properties of atmospheric particulate matter (PM10) in the Latium region (Italy): an empirical approach to evaluate natural and anthropogenic inputs

17:00 END OF SESSION

MPRG05 Paleomagnetism, Climate and Environmental magnetism (co-listed in CL and SSP) – Posters

Convener: Thouveny, N.
 Co-Convener(s): Williamson, D.
 Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 10:30–12:00
 Poster Area Hall A
 Chairperson: N.N.

A0324; EGU2007-A-02063; MPRG05-1TU2P-0324
Abrajevitch, A.; Van der Voo, R.; Rea, D.
 IRM acquisition parameters as means of identifying biogenic magnetite in natural rock samples

A0325; EGU2007-A-04531; MPRG05-1TU2P-0325
Fabian, K.; Reimann, C.; McEnroe, S.
 Magnetic properties of terrestrial moss samples (*Hypnum splendens*) along a south-north profile crossing the city of Oslo, Norway

A0326; EGU2007-A-06512; MPRG05-1TU2P-0326
Wang, RW; Lovlie, RL
 Production of superparamagnetic magnetite during thermal demagnetization of Chinese loess/paleosol

A0327; EGU2007-A-06642; MPRG05-1TU2P-0327
Heslop, D.
 A wavelet investigation of possible orbital influences on past geomagnetic field intensity

A0328; EGU2007-A-07892; MPRG05-1TU2P-0328
Hasso-Agopsowicz, A.; Jeleńska, M.
 Changes of the magnetic parameters induced by heating in chernozem soils samples

A0329; EGU2007-A-09672; MPRG05-1TU2P-0329
Mohamed, K.; Rey, D.; Rubio, B.; Vilas, F.
 Paleoenvironmental significance of magnetic properties in the Galician continental shelf, NW Iberian Peninsula.

A0330; EGU2007-A-10479; MPRG05-1TU2P-0330
Hambach, U.
 The Mono Lake Geomagnetic Excursion recorded in Loess

Natural Hazards

NH1.04 Precipitation Science (co-listed in AS) (including Sergey Soloviev Medal Lecture)

Convener: Smith, E.
 Co-Convener(s): Kidd, C., Mugnai, A., Nakamura, K., Tripoli, G.
 Lecture Room 24
 Chairperson: SMITH, E.A.

8:30–8:45; EGU2007-A-11209; NH1.04-1TU1O-001
Stephens, G.L.
 New observations of clouds and precipitation from CloudSat (solicited)

8:45–9:00; EGU2007-A-08854; NH1.04-1TU1O-002
Bellerby, T
 Empirical satellite rainfall uncertainty modelling using an artificial neural network (solicited)

9:00–9:15; EGU2007-A-11191; NH1.04-1TU1O-003
Simmer, C.; Diederich, M.; Bozoglu, A.; Battaglia, A.
 Precipitation retrieval from satellites over Africa (solicited)

9:15–9:30; EGU2007-A-02098; NH1.04-1TU1O-004
Wilheit, T.
 Uncertainty estimates for passive microwave retrievals of oceanic rain (solicited)

9:30–9:45; EGU2007-A-07415; NH1.04-1TU1O-005
Russchenberg, H; Unal, C; Figueras, J
 Remote sensing of precipitation: the multi-sensor approach (solicited)

9:45–10:00; EGU2007-A-08404; NH1.04-1TU1O-006
 Shimizu, S.; Oki, R.; Kachi, M.; Hanado, H.; Kojima, M.
 Development of the DPR algorithms and products for GPM (solicited)

10:00 COFFEE BREAK

Chairperson: NAKAMURA, K.

10:30–10:45; EGU2007-A-07096; NH1.04-1TU2O-001
Illingworth, A J; Williams, C R; Thompson, R J
 Independent evaluation of the integrated Z/ZDR method for obtaining more accurate rainfall rates from polarisation radar. (solicited)

10:45–11:00; EGU2007-A-11122; NH1.04-1TU2O-002
Arkin, P
 Evaluation of high resolution precipitation products derived from satellite observations (solicited)

11:00–11:15; EGU2007-A-11204; NH1.04-1TU2O-003
Chen, T.C
 Interannual variation of global precipitation (solicited)

11:15–11:30; EGU2007-A-04668; NH1.04-1TU2O-004
Anagnostou, E.N.
 A framework for studying optimal satellite rain retrievals in hydrologic applications (solicited)

11:30–11:45; EGU2007-A-11113; NH1.04-1TU2O-005
Guzzetti, F.; Peruccacci, S.; Rossi, M.; Stark, C.P.
 World-Wide Analysis of Rainfall Conditions that Have Resulted in Landslides (solicited)

11:45–12:00; EGU2007-A-08703; NH1.04-1TU2O-006
Fuchs, T; Rudolf, B
 Precipitation observation, forecast and analysis supporting hydrometeorological user applications of a European Meteorological Service (solicited)

12:00 LUNCH BREAK

Chairperson: KIDD, C.

13:30–13:45; EGU2007-A-05708; NH1.04-1TU3O-001
Alpert, P.; Rayitsfeld, A.; Firsten, A.; David, N.; Goldshtein, O.; Messer, H.; Zinevich, A.
 Study of Precipitation by Cellular Networks (solicited)

13:45–14:00; EGU2007-A-04998; NH1.04-1TU3O-002
Chou, M.-D.; Kau, W.-S.; Hsu, H.-H.; Chu, A.
 Impact of aerosols on the Asian summer monsoon rainfall (solicited)

14:00–14:15; EGU2007-A-10800; NH1.04-1TU3O-003
Hagen, M.
 Polarimetric Doppler weather radar: towards the understanding of precipitation (solicited)

14:15–14:30; EGU2007-A-05837; NH1.04-1TU3O-004

Sui, C.-H.; Li, X.

Modeling and remote sensing of precipitation processes in tropical convection (solicited)

14:30–14:45; EGU2007-A-10062; NH1.04-1TU3O-005

Jobard, I.M.; Chopin, F.; Berges, J.C.; Ali, A.; Lebel, T.; Desbois, M.

Presentation of the EPSAT-SG method and comparison with other satellite precipitation estimations in the frame of Precip-AMMA (solicited)

14:45–15:00; EGU2007-A-05376; NH1.04-1TU3O-006

Yasunari, T.; Ichikawa, H.

Propagating diurnal precipitation disturbances associated with the Madden Julian Oscillation in the Indonesian maritime continent (solicited)

15:00 COFFEE BREAK

Chairperson: TRIPOLI, G.J.

15:30–15:45; EGU2007-A-07946; NH1.04-1TU4O-001

Mehta, V.; Kullgren, K.; Rosenberg, N.

Decadal Variability of the Tropical Climate and Its Impacts on Missouri River Basin Water Resources and Agriculture: The Roles of Precipitation as Cause and Effect (solicited)

15:45–16:00; EGU2007-A-04952; NH1.04-1TU4O-002

Levizzani, V.; Masotti, M.; Ginnetti, R.; Pasqui, M.; Melani, S.; Laing, A. G.; Carbone, R. E.

Variability of warm-season clouds over Europe (solicited)

16:00–16:15; EGU2007-A-11316; NH1.04-1TU4O-003

Tao, W-K

A coupled GCM-cloud resolving modeling system to study precipitation processes (solicited)

16:15–16:30; EGU2007-A-11145; NH1.04-1TU4O-004

Fekete, B.; Wisser, D.; Vorosmarty, C.

Contemporary runoff and discharge estimates for the North American continent using satellite remote sensing based precipitation data sets (solicited)

16:30–16:45; EGU2007-A-10135; NH1.04-1TU4O-005

Uijlenhoet, R.; Berne, A.

Stochastic modeling of rainfall microstructure (solicited)

16:45–17:00; EGU2007-A-11499; NH1.04-1TU4O-006

Borga, M.; Zanon, F.

Assessment of uncertainty in radar rainfall estimates and of its impact on hydrological modelling by using two process-based models (solicited)

17:00 COFFEE BREAK

Chairperson: YANG, S.

17:30–17:45; EGU2007-A-10992; NH1.04-1TU5O-001

Lettenmaier, D.P.; Su, F.

Evaluation of the TRMM multi-satellite precipitation analysis (TMPA) and its utility in hydrologic prediction in La Plata basin (solicited)

17:45–18:00; EGU2007-A-06121; NH1.04-1TU5O-002

Tapiador, FJ

On the need of improved precipitation estimates in Europe in a global change scenario (solicited)

18:00–18:15; EGU2007-A-11505; NH1.04-1TU5O-003

Jansa, A.

Heavy Mediterranean precipitation (solicited)

18:15–18:30; EGU2007-A-07443; NH1.04-1TU5O-004

Viswanathan, G.; Shellar, V.

Precipitation Measurements in Tropical Southern India (solicited)

18:30–18:45; EGU2007-A-11351; NH1.04-1TU5O-005

Boni, G.; Parodi, A.

Rainfall index mapping in mountainous regions: links to the physics of orographic rainfall (solicited)

18:45–19:00; EGU2007-A-11016; NH1.04-1TU5O-006

Yang, D.; Legates, D.; Goodison, B.; Kane, D.

Development of bias-corrected precipitation database and climatology for the high latitude regions (solicited)

19:00 END OF SESSION

NH3.04 Remote sensing and geophysical techniques for investigating unstable slopes (co-listed in GM & GI)

Convener: Wasowski, J.

Co-Convener(s): Del Gaudio, V., Singhroy, V., Havenith, H.

Lecture Room 27

Chairperson: WASOWSKI, J.

8:30–8:45; EGU2007-A-03339; NH3.04-1TU1O-001

Jonsson, S.; Agustsson, K.

A Survey of active Landslide Movement in Iceland from SAR Interferometry

8:45–9:00; EGU2007-A-07328; NH3.04-1TU1O-002

Wiesmann, A.; Wegmüller, U.; Strozzi, T.; Werner, C.; Rhyner, J.; Meister, R.; Klingler, C.

Application of Interferometric Radar techniques for survey and monitoring of unstable slopes in the Alps in the frame of the EC Framework 6 GMES project ASSIST

9:00–9:15; EGU2007-A-03486; NH3.04-1TU1O-003

Farina, P.; Casagli, N.; Ferretti, A.

How space-borne InSAR can provide insights into coastal instability problems: the Cirò Marina case (Italy)

9:15–9:30; EGU2007-A-11117; NH3.04-1TU1O-004

Saroli, M.; INGV-DSGSD TEAM

Relationships between tectonic and gravity: case studies in central Apennines

9:30–9:45; EGU2007-A-07878; NH3.04-1TU1O-005

Petley, D.N.; Dunning, S.A.; Rosser, N.J.

On the application of TOPSAT for the rapid assessment of landslide impacts (solicited)

9:45–10:00; EGU2007-A-00818; NH3.04-1TU1O-006

Roberts, N.J.; Evans, S.G.

Khait rock avalanche / mud flow, Tajikistan: validation of a remote sensing-based methodology for characterization and analysis of catastrophic landslides

10:00 COFFEE BREAK

Chairperson: HAVENITH, H.B.

10:30–10:45; EGU2007-A-04157; NH3.04-1TU2O-001

Mora, P.; Berti, M.; Simoni, A.

Observations of soil moisture from thermal infrared data

10:45–11:00; EGU2007-A-09143; NH3.04-1TU2O-002

Teza, G.; Genevois, R.; Pesci, A.; Galgaro, A.

Ground surface strain field computation of an unstable slope

11:00–11:15; EGU2007-A-04266; NH3.04-1TU2O-003
Taboga, A; Brabham, P J; Harris, C
 Development of high-resolution geophysical monitoring of landslides in the South Wales Coalfield

11:15–11:30; EGU2007-A-01489; NH3.04-1TU2O-004
Grandjean, G.; Malet, J.P.; Bitri, A.; Meric, O.
 Geophysical tomographies fusion by fuzzy logic for imaging the geomechanical behaviour of mudslides

11:30–11:45; EGU2007-A-11630; NH3.04-1TU2O-005
 Turner, G.; Ingham, M.; Bibby, H.
 Electrical resistivity monitoring of seepage and stability of the Tephra Barrier at Crater Lake, MT Ruapehu, New Zealand

11:45–12:00; EGU2007-A-02733; NH3.04-1TU2O-006
Abdel-Hafez, T; Sultan, A; Shaaban, F; Hafez, M; Abd-Alla, M
 Geophysical studies to investigate the reasons behind the tilting of the power line cable pillar at Borg Al-Arab, Alexandria, Egypt

12:00 END OF SESSION

NH3.07 Mechanics of Mass Flows (co-listed in GM)

Convener: McArdeLL, B.
 Co-Convener(s): Arattano, M., Ancey, C.
 Lecture Room 27
 Chairperson: MCARDELL, B

13:30–13:45; EGU2007-A-03402; NH3.07-1TU3O-001
Kaitna, K; Rickenmann, R; Schneiderbauer, S
 Flow experiments in a rotating drum and a conveyor belt flume

13:45–14:00; EGU2007-A-04891; NH3.07-1TU3O-002
Girolami, L.; Druitt, T. H.; Roche, O.
 Transport and sedimentation of laboratory ash flows

14:00–14:15; EGU2007-A-02207; NH3.07-1TU3O-003
Lajeunesse, E.; Deboeuf, S.; Dauchot, O.; Andreotti, B.
 Formation of levees in a laboratory dry granular flow

14:15–14:30; EGU2007-A-08306; NH3.07-1TU3O-004
Bartelt, P.; McArdeLL, B.; Platzer, K.; Buser, O.
 Basal Shear Relationships for Debris Flows and Snow Avalanches: When can Pouliquen's Granular Model be Applied?

14:30–14:45; EGU2007-A-09075; NH3.07-1TU3O-005
 Pavanelli, N.; Falorni, G.
 Lahar modeling at Irazu volcano (Costa Rica)

14:45–15:00; EGU2007-A-09558; NH3.07-1TU3O-006
Pagliardi, M; Breien, H; Issler, D; Elverhøi, A
 Application of PIV technique to subaqueous and subaerial debris flows

15:00 END OF SESSION

NH3.08 Rock falls: Analysis, Simulation and Protection

Convener: Dorren, L.
 Co-Convener(s): Volkwein, A., Berger, F.
 Lecture Room 27
 Chairperson: DORREN, L.

15:30–15:45; EGU2007-A-02187; NH3.08-1TU4O-001
 Tagliavini, F; Reichenbach, P; Maragna, D; Guzzetti, F; Pasuto, A
 A Comparison of 2-D and 3-D Models for the M. Salta rock fall, Vajont Valley, northern Italy

15:45–16:00; EGU2007-A-04247; NH3.08-1TU4O-002
Salvini, R; Firpo, G; Fantozzi, P. L.
 Close range photogrammetry for the analysis of unstable slopes in the Apuan Alps marble quarries (Carrara, Italy)

16:00–16:15; EGU2007-A-04634; NH3.08-1TU4O-003
Rammer, W.; Brauner, M.; Dorren, L.K.A; Berger, F.; Lexer, M.J.
 Validation of an integrated, dynamic 3D forest growth - rockfall model

16:15–16:30; EGU2007-A-06523; NH3.08-1TU4O-004
Bourrier, F.; Dorren, L.; Berger, F.; Nicot, F.; Darve, F.
 Towards a better understanding of the coefficient of restitution of a rockfall rebound

16:30–16:45; EGU2007-A-08618; NH3.08-1TU4O-005
Pedrazzini, A.; Oppikofer, T.; Baillifard, F.; Jaboyedoff, M.
 Identification of rockfall hazard in the "Les Pics" area (Wallis, Switzerland) by DEM analysis

16:45–17:00; EGU2007-A-10895; NH3.08-1TU4O-006
 Frayssines, M.; Hantz, D.; Jaboyedoff, M.
 A method for the evaluation of the failure probability of potential rock falls

17:00 COFFEE BREAK

Chairperson: N.N.

17:00 END OF SESSION

NH3.09 Slope movements in weathered materials: recognition, analysis, and hazard assessment (co-listed in GM)

Convener: Calcaterra, D.
 Co-Convener(s): Parise, M., Lacerda, W.
 Lecture Room 18
 Chairperson: CALCATERRA, D.

8:30–9:00; EGU2007-A-04821; NH3.09-1TU1O-001
Hencher, S
 Slope failures in Hong Kong (solicited)

9:00–9:15; EGU2007-A-05943; NH3.09-1TU1O-002
Tobe, H.; Chigira, M.
 A new method to analyze petrologic texture and its application to estimate weathering style of granitoid

9:15–9:30; EGU2007-A-06706; NH3.09-1TU1O-003
 Delmonaco, G.; Margottini, C.; Spizzichino, D.
 Geological degradation and rock-slope structure stability of Aba Libanos Church in Lalibela, Ethiopia

9:30–9:45; EGU2007-A-10766; NH3.09-1TU1O-004
Guida, D.; Carbone, A.; Cestari, A.; Cirielli, A.; De Nardo, A.; Gallo, A.; Buoncontino, A.; Iamarino, M.; Lanzara, R.; Siervo, V.
 Interdisciplinary approaches to recognition, analysis and flowslide-debris flow hazard assessment in the pyroclastic soil-mantled carbonate hillslope: experiences in Campania Region (Southern Italy).

9:45–10:00; EGU2007-A-09729; NH3.09-1TU1O-005
Boldini, D.; Delmonaco, G.; Gasbarrone, F.; Margottini, C.; Spizzichino, D.
 Assessment of the instability phenomena affecting the historical village of Craco (Southern Italy)

10:00 COFFEE BREAK

Chairperson: PARISE, M.

10:30–10:45; EGU2007-A-06731; NH3.09-1TU2O-001
Meisina, C.

Relationship between the residual shear strength and the methylene blue value in weathered clay soils.

10:45–11:00; EGU2007-A-03181; NH3.09-1TU2O-002
Yamakoshi, T.; Mathys, N.; Klotz, S.

Visual observation of erosion processes on the Black Marls badlands in the Southern Alps, France

11:00–11:15; EGU2007-A-06178; NH3.09-1TU2O-003
Calcaterra, D.; Calò, F.; Cappelletti, P.; de' Gennaro, M.; Di Martire, D.; Parise, M.; Ramondini, M.
 Mineralogical and geotechnical characterization of a large earthflow in weathered structurally complex terrains of the Molise region, Italy

11:15–11:30; EGU2007-A-06293; NH3.09-1TU2O-004
Lacerda, W.A.; Fonseca, A.P.; Coelho Netto, A.L.
 Slide in weathered banded gneiss due to gully action in southern Brazil

11:30 END OF SESSION

NH3.09 Slope movements in weathered materials: recognition, analysis, and hazard assessment (co-listed in GM) – Posters

Convener: Calcaterra, D.

Co-Convener(s): Parise, M., Lacerda, W.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: CALCATERRA, D.

XY0425; EGU2007-A-02526; NH3.09-1TU5P-0425

Mišević, P.; Roje-Bonacci, T.; Števanija, D.
 Weathering process in eocene flysch in Croatia

XY0426; EGU2007-A-03269; NH3.09-1TU5P-0426
Nieto, F.; Abad, I.; **Azañón, J.M.**
 New method for determination of smectite proportion in sediments and soils of potential landslide sites using thermogravimetric analyses

XY0427; EGU2007-A-06266; NH3.09-1TU5P-0427
Antronico, L.; Gullà, G.; Terranova, O.
 Rainfall-induced shallow landslides in weathered rock masses (Sila Massif, Calabria, Italy)

XY0428; EGU2007-A-06211; NH3.09-1TU5P-0428
Bruno, D.E.; Calcaterra, D.; Parise, M.
 Weathering-landslides relationships in the catchment of the Mucone River (Sila Massif, Calabria, Italy)

XY0429; EGU2007-A-06851; NH3.09-1TU5P-0429
Borrelli, L.; Gullà, G.
 Validation of the geological-technical model of a great landslide in weathered and degraded rocks: Serra di Buda landslide (Calabria, Southern Italy).

XY0430; EGU2007-A-07936; NH3.09-1TU5P-0430
Tobe, H.; Chigira, M.
 A new method of measuring petrologic textures and its application to granitic rocks

XY0431; EGU2007-A-08360; NH3.09-1TU5P-0431

Pérez, J.L.; Delgado, J.; **Azañón, J.M.**

Landslide movement characterization using aerial digital photogrammetric techniques and LIDAR data. Application to the Diezma's landslide (Granada, SE. Spain)

XY0432; EGU2007-A-08687; NH3.09-1TU5P-0432

Abate, G.; Basile, G.; Colangelo, G.; Lapenna, V.; Loperite, A.; Pascale, S.; Perrone, A.; **Rutigliano, P.;** Sdao, F.; Satriano, A.

A jointly application of geomorphologic, geodetic and geoelectrical techniques for monitoring landslide surface deformations: a case study in Basilicata Region (Southern Italy)

XY0433; EGU2007-A-09617; NH3.09-1TU5P-0433

Bozzano, F.; Martino, S.; Pellegrino, A.; Prestininzi, A.
 Recent debris flows involving weathered gneiss in the tyrrhenian coastal area between Bagnara Calabria and Scilla (Calabria, southern Italy)

XY0434; EGU2007-A-08912; NH3.09-1TU5P-0434

Rutigliano, P.; Abate, G.; Basile, G.; Colangelo, G.; Sdao, F.
 Integrated GPS and topographic surveys of a large landslide area near Picerno (Basilicata Region, Southern Italy)

XY0435; EGU2007-A-06505; NH3.09-1TU5P-0435

Andriani, G.F.; Walsh, N.

Shallow landslides in weathered soils: a case study from the Apennine chain in southern Italy

XY0436; EGU2007-A-02544; NH3.09-1TU5P-0436

Roje-Bonacci, T

The rockslides on high cut-offs in the Dinaric karst in Croatia

NH3.13 Time and intensity prediction in landslide hazard assessment

Convener: Catani, F.

Co-Convener(s): Zezere, J., MALET, J.

Lecture Room 18

Chairperson: CATANI, F.

13:30–14:00; EGU2007-A-04611; NH3.13-1TU3O-001

Hong, Y; Adler, R

Challenge and Opportunity in Predicting Landslide Spatiotemporal Distribution: Integrating the Heritage of Landslide Zoning Techniques and recent Advance of Real-time Monitoring System for Landslide Triggers (Rainfall and Ground Quake) (solicited)

14:00–14:15; EGU2007-A-00601; NH3.13-1TU3O-002

Salciarini, D.; Conversini, P.; Savage, W.Z.

Assessing the rainfall-induced shallow landslides recurrence

14:15–14:30; EGU2007-A-05778; NH3.13-1TU3O-003

Schmidt, J; Turek, G; Clark, M; Uddstrom, M

Real-time forecasting of shallow, rainfall-triggered landslides in New Zealand

14:30–14:45; EGU2007-A-09431; NH3.13-1TU3O-004

Falorni, G.; Leoni, L.; Benedetti, A.; Catani, F.; Rudari, R.; Pellegrino, D.; Ciminelli, M.; Giannoni, F.

PREVIEW Service 2: forecasting shallow rapid landslides

14:45–15:00; EGU2007-A-06548; NH3.13-1TU3O-005

Prunier, F; Lignon, S; Khoa, H.D.V; Darve, F; Laouafa, F
 Landslide modelling with a material instability criterion

15:00 COFFEE BREAK

Chairperson: ZEZEZE, J.

15:30–16:00; EGU2007-A-09284; NH3.13-1TU4O-001
Iovine, G.; Di Gregorio, S.; D'Ambrosio, D.; Spataro, W.
 Time and intensity prediction in landslide hazard assessment with Cellular Automata models SCIDDICA (solicited)

16:00–16:15; EGU2007-A-07977; NH3.13-1TU4O-002
Petley, D.N.; Carey, J.; Rosser, N.J.; Dunning, S.A.
 Temporal prediction in landslides – understanding the Saito effect

16:15–16:30; EGU2007-A-02577; NH3.13-1TU4O-003
Remaître, A.; Malet, J.-P.; van Asch, T.; Maquaire, O.
 Influence of check dams on debris-flow runout characteristics. Implications for hazard assessment.

16:30–16:45; EGU2007-A-05649; NH3.13-1TU4O-004
Zvelebil, JZ; Paluš, MP
 Nonlinear assessment of time series from rock slope monitoring

16:45–17:00; EGU2007-A-06751; NH3.13-1TU4O-005
Veveakis, E.; Vardoulakis, I.; Di Toro, G.
 Towards the prediction of thermally driven landslides

17:00 END OF SESSION

NH3.13 Time and intensity prediction in landslide hazard assessment – Posters

Convener: Catani, F.
 Co-Convener(s): Zezeze, J., MALET, J.
 Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 17:30–19:00

Poster Area Halls X/Y
 Chairperson: MALET, J.

XY0437; EGU2007-A-00083; NH3.13-1TU5P-0437
Montrasio, L.; **Valentino, R.**
 A model for triggering mechanism of shallow landslides

XY0438; EGU2007-A-03509; NH3.13-1TU5P-0438
Zêzeze, J.L.; Trigo, R.; Oliveira, S.C.; Garcia, R.A.C.; Fragoso, M.
 Rainfall-triggered landslides occurred in the Lisbon Region in 2006: Validation of regional rainfall thresholds and relationships with the North Atlantic Oscillation

XY0439; EGU2007-A-05705; NH3.13-1TU5P-0439
Maquaire, O.; Malet, J.-P.
 Assessment of coastal landslide hazard: the Villerville-Cricqueboeuf landslides (Normandy coast, France)

XY0440; EGU2007-A-06393; NH3.13-1TU5P-0440
Malet, J.-P.; Begueria-Portugués, S.
 Probabilistic assessment of debris flow hazard on alluvial fans.

XY0441; EGU2007-A-06969; NH3.13-1TU5P-0441
Van asch, Th.W.; Malet, J.-P.; Bogaard, T.A.; Jongmans, D.
 Analyzing the kinematical behaviour of slow-moving landslides in the varved clays of the Trièves Plateau (France).

XY0442; EGU2007-A-07003; NH3.13-1TU5P-0442
Van Asch, Th.W.; Malet, J.-P.; Aksoy, B.; Van beek, L.P.H.; Bogaard, T.A.
 Prediction of landslide crises: testing concepts for fluidization of sliding material.

XY0443; EGU2007-A-08390; NH3.13-1TU5P-0443
Bianchi Fasani, G.; Bozzano, F.; Esposito, C.; Floris, M.; Mazzanti, P.
 Some considerations about landslide susceptibility analysis of coastal slopes coming from the case study of the Albano Lake (Rome, Italy)

XY0444; EGU2007-A-09222; NH3.13-1TU5P-0444
Benedetti, A.I.; Fanti, R.; Palmieri, M.
 Landslides in Emilia-Romagna (Italy) from 2000 to 2006: rainfall thresholds and landslide prediction with the SIGMA model.

XY0445; EGU2007-A-10451; NH3.13-1TU5P-0445
Catani, F.; Gigli, G.; Tofani, V.; Ettore, V.
 Landslide intensity prediction for different typologies and at different scales: towards an upscaling paradigm

XY0446; EGU2007-A-10567; NH3.13-1TU5P-0446
Marques, F.
 Magnitude-frequency of landslide activity in sea cliffs

XY0447; EGU2007-A-04356; NH3.13-1TU5P-0447
Ehret, D.; Lang, S.; Rumpler, N.; Reschreiter, H.; Götz, S.; Rohn, J.
 Investigation of Bronze and Iron Age Mass Movement Deposits in a Prehistoric Salt Mine in Hallstatt, Austria

XY0448; EGU2007-A-11628; NH3.13-1TU5P-0448
Thiery, Y.; Malet, J.-P.; Maquaire, O.
 How to link statistical and deterministic models for assessing landslide hazard?

NH7.01 Snow cover, snow avalanche formation and dynamics, risk assessment

Convener: Naaim, M.
 Co-Convener(s): Naaim-Bouvet, F., Schweizer, J., McClung, D.
 Lecture Room 16 (L)
 Chairperson: SCHWEIZER, J.

8:30–8:45; EGU2007-A-03123; NH7.01-1TU1O-001
McClung, D
 Fracture properties of faceted snow

8:45–9:00; EGU2007-A-11520; NH7.01-1TU1O-002
Heierli, J.; Zaiser, M.
 A unified model of failure initiation for whumpfs and slab avalanches

9:00–9:15; EGU2007-A-10287; NH7.01-1TU1O-003
Zwart, C.; **Fierz, C.;** Lehning, M.; van de Wal, R.S.W
 Significance of new snow properties for snow-cover development

9:15–9:30; EGU2007-A-07074; NH7.01-1TU1O-004
Prokop, A.
 The application of terrestrial laser scanning for snow depth observation

9:30–9:45; EGU2007-A-00101; NH7.01-1TU1O-005
Delparte, D.; Jamieson, B.; Waters, N
 Statistical runout modeling of snow avalanches utilizing Geographic Information Systems in Rogers Pass, Canada

9:45–10:00; EGU2007-A-07209; NH7.01-1TU1O-006
McElwaine, J.; Turnbull, B.
 Experiments on the Non-Boussinesq Flow of Self-Igniting Suspension Currents on a Steep Open Slope

10:00 COFFEE BREAK

Chairperson: NAAIM, M.

10:30–10:45; EGU2007-A-04920; NH7.01-1TU2O-001
Pudasaini, S. P.; Hutter, K.
 When an avalanche hits the wall: experiments and analysis

10:45–11:00; EGU2007-A-00017; NH7.01-1TU2O-002
Baroudi, D.; Berthet-Rambaud, P.; Thibert, E.; Limam, A.
Upon the characterization of avalanche loading on impacted structures: a new approach based on inverse analysis

11:00–11:15; EGU2007-A-04165; NH7.01-1TU2O-003
Eckert, N.; Faug, T.; Parent, E.; Naaim, M.
Optimal design of a small dam for mitigation against dense snow avalanches: classical and Bayesian computations

11:15–11:30; EGU2007-A-02341; NH7.01-1TU2O-004
Margreth, S.; Romang, H.
Swiss practice in adapting of hazard zones in the influence of avalanche protection measures

11:30–11:45; EGU2007-A-09277; NH7.01-1TU2O-005
Bertrand, D.; Naaim, M.
Mechanical vulnerability assessment of civil structures to snow avalanches

11:45–12:00; EGU2007-A-02294; NH7.01-1TU2O-006
Rheinberger, C.; Bründl, M.
Obstacles and pitfalls in quantifying avalanche risks to roads

12:00 END OF SESSION

NH7.01 Snow cover, snow avalanche formation and dynamics, risk assessment – Posters

Convener: Naaim, M.
Co-Convener(s): Naaim-Bouvet, F., Schweizer, J., McClung, D.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: MCCLUNG, D.

XY0449; EGU2007-A-08633; NH7.01-1TU3P-0449
Kocianova, M.; Spusta, V.; Tondrova, A.; **Lhota, T.**
Slushflow, slushswamp and ground avalanches triggered partly by spring water - Krkonose Mountains, Czech republic

XY0450; EGU2007-A-05718; NH7.01-1TU3P-0450
Haraldsdóttir, S.H.; Jensen, E.H.; Tracy, L.; **Ólafsson, H.**
Avalanches in coastal towns in Iceland

XY0451; EGU2007-A-01917; NH7.01-1TU3P-0451
Pozdnoukhov, A.; Kanevski, M.; Purves, R.S.
Avalanche Danger Forecasting with Machine Learning Methods

XY0452; EGU2007-A-10317; NH7.01-1TU3P-0452
NAAIM-BOUVET, F.; CIERCO, F.-X.; BELLOT, H.; PER-RAULT, D.
Drifting snow measurements over an instrumented mountainous site : improvement of numerical model input parameters

XY0453; EGU2007-A-11521; NH7.01-1TU3P-0453
Habermann, M.; **Schweizer, J.**; Jamieson, J.B.
Influence of slab properties on human-triggered snow slab avalanche release

XY0454; EGU2007-A-06381; NH7.01-1TU3P-0454
Fromm, R.; Obleitner, F.
The mechanical stability of the snow pack in an avalanche slope by calculating the distributed snow cover energy balance

XY0455; EGU2007-A-03199; NH7.01-1TU3P-0455
Teufelsbauer, H.
Parameterization of a two dimensional snow pack model

XY0456; EGU2007-A-08335; NH7.01-1TU3P-0456
Kogelnig, A.; Bacher, M.
Infrasound measurements of avalanche activity

XY0457; EGU2007-A-06387; NH7.01-1TU3P-0457
Schaffhauser, A.; Fromm, R.; Joerg, P.; Luzi, G.; Macaluso, G.; Mecatti, D.; Noferini, L.; Pieraccini, M.; Tamburini, A.; Sailer, R.
Remote sensing based retrieval of snow depth and snow water equivalent

XY0458; EGU2007-A-09557; NH7.01-1TU3P-0458
Jörg, P.; Fromm, R.; Rammer, L.; Sailer, R.; Rainer, E.; Wiatr, T.
Changes of snow depth measured with a terrestrial laser ranging system

XY0459; EGU2007-A-07932; NH7.01-1TU3P-0459
Bacher, M.; Naaim, M.; Bellot, H.; Ousset, F.
Snow experiments with a coaxial rheometer

XY0460; EGU2007-A-09147; NH7.01-1TU3P-0460
Kapeller, G.; Fellin, W.; Kleemayr, K.
Two-phase avalanche simulation in a watertank based on a turbulent dense flow

XY0461; EGU2007-A-09169; NH7.01-1TU3P-0461
Tai, Y.C.
A new model of gravity driven flows over general topography with erosion

XY0462; EGU2007-A-05479; NH7.01-1TU3P-0462
Barbolini, M.; Cappabianca, F.; Natale, L.
Avalanche risk mapping: theory and practice

XY0463; EGU2007-A-03762; NH7.01-1TU3P-0463
Bründl, M.; Bischof, N.; Romang, H.
RIKO - a Guideline for a Risk based Planning of Counter-measures against Natural Hazards

NH8.02/BG1.06 Heavy-metal contamination of water, air, soil, and foodcrops (co-organized by NH and BG) (co-listed in SSS) – Posters

Convener: Malamud, B.
Co-Convener(s): Dermatas, D., Marshall, F., Saghatelian, A.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 10:30–12:00
Poster Area Halls X/Y
Chairperson: DERMATAS, D. & MALAMUD, B.D.

XY0464; EGU2007-A-00022; NH8.02/BG1.06-1TU2P-0464
Casagrande, J. C.; Mouta, C.E.; Soares, M. R.; Silva, L.C.F.; Maniero, M.A.
Parameters and evidences for heavy metals adsorption mechanisms from batch adsorption studies with variable charge soils

XY0465; EGU2007-A-02553; NH8.02/BG1.06-1TU2P-0465
Pezzarossa, B.; Petruzzelli, G.; Malorgio, F.; Ferri, T.
The effects of carboxymethylcellulose on selenium speciation in soil and selenium uptake by plants

XY0466; EGU2007-A-02976; NH8.02/BG1.06-1TU2P-0466
Mouta, E.R.; **Melo, W.J.**; Soares, M.R.; Frade Junior, E.F.; Torres, L.S.; Melo, G.M.P.
Parameters of selenium adsorption in Brazilian Oxisols

XY0467; EGU2007-A-05563; NH8.02/BG1.06-1TU2P-0467
Frade Junior, E.F.; **Melo, W.J.**; Mouta, E.R.; Guedes, A.C.T.; Melo, G.M.P.
Enzyme activities in a cadmium-contaminated sewage sludge

- XY0468**; EGU2007-A-10107; NH8.02/BG1.06-1TU2P-0468
Souza, L.C.; Campos, H.M.; Oliveira, L.R.; Mouta, E.R.; Melo, G.M.; Melo, V.P.; **Melo, W.J.**
Barium in an Oxisol treated for nine consecutive years with sewage sludge and cropped with maize
- XY0469**; EGU2007-A-10267; NH8.02/BG1.06-1TU2P-0469
Campos, H.M.; **Melo, W.J.**; Melo, G.M.P.; Souza, L.C.; Mouta, E.R.; Oliveira, L.R.
Effect of Heavy Metals in Oxisol amended with sewage sludge
- XY0470**; EGU2007-A-05303; NH8.02/BG1.06-1TU2P-0470
Schueler, A; Mahler, C
Soil contamination provoked by solid waste leachate
- XY0471**; EGU2007-A-01651; NH8.02/BG1.06-1TU2P-0471
Karlik, J.; Craigmill, A.; Sanden, B.
Uptake and potential toxicity of chemical elements, including heavy metals, into almond trees planted over waste trenches
- XY0472**; EGU2007-A-11470; NH8.02/BG1.06-1TU2P-0472
Singh, A.; Sharma, R.K.; Agrawal, M.; **Marshall, F.**
Heavy metal contamination of food baskets in an area having long term uses of treated and untreated sewage water for irrigation
- XY0473**; EGU2007-A-08373; NH8.02/BG1.06-1TU2P-0473
Chishala, B. H.; **Malamud, B. D.**; Kapungwe, E.; Volk, J.; Holden, J. A.; Imasiku, M.
Challenges of Investigating Heavy Metal Contamination of Water and Food Crops in Zambia: A Comparison of Laboratories
- XY0474**; EGU2007-A-10284; NH8.02/BG1.06-1TU2P-0474
Kapungwe, E.; Chishala, B. H.; **Malamud, B. D.**; Volk, J.; Holden, J. A.; Imasiku, M.
Heavy Metal Levels in Sugarcane Irrigated with Wastewater in Peri-Urban Areas Of Zambia
- XY0475**; EGU2007-A-00881; NH8.02/BG1.06-1TU2P-0475
Holden, J.A.; Malamud, B.D.; Harpp, K.S.
Health hazard quantification of heavy metal contaminated food crops in Chunga, Lusaka, Zambia
- XY0476**; EGU2007-A-00871; NH8.02/BG1.06-1TU2P-0476
Holden, J.A.
Heavy metal contamination and health in urban agriculture produce in Lusaka, Zambia: realities and perceptions.
- XY0477**; EGU2007-A-05206; NH8.02/BG1.06-1TU2P-0477
Angelova, V.; Ivanova, R.; Ivanov, K.
Heavy metals uptake by plants from family Lamiaceae growing in the polluted soils
- XY0478**; EGU2007-A-07508; NH8.02/BG1.06-1TU2P-0478
Liu, W; **Yang, Y.S.**
Impact assessment of cadmium contamination on rice (*Oryza sativa* L.) seedlings at molecular and population levels using multiple biomarkers
- XY0479**; EGU2007-A-00827; NH8.02/BG1.06-1TU2P-0479
Quezada, R.; Matera, V.; Adatte, T.; Föllmi, K.
Transfer of cadmium from rock substratum to the soil and associated vegetation under natural and experimental conditions
- XY0480**; EGU2007-A-08822; NH8.02/BG1.06-1TU2P-0480
Matera, V.; Le Bayon, R.C.; Quezada, R.; Gobat, J-M.; Föllmi, K.
Transfer kinetics of cadmium from naturally enriched rocks to *Lupinus albus*
- XY0481**; EGU2007-A-10665; NH8.02/BG1.06-1TU2P-0481
Chandra, S; Jokhan, A. D.
Heavy metal retention and uptake in spiked soils from Fiji
- XY0482**; EGU2007-A-11304; NH8.02/BG1.06-1TU2P-0482
Li, L. Y.; Huang, N. T.; Ohtsubo, M.
Industrial effluent impact assessment of the major river system and agriculture soil in Hanoi City, Vietnam
- XY0483**; EGU2007-A-05066; NH8.02/BG1.06-1TU2P-0483
Semhi, K.; Chaudhuri, S.; Al Khirbash, S.; Rollinson, H.; Abdalla, O.
Mobility of rare earth elements in soil-plant-groundwater systems in Oman
- XY0484**; EGU2007-A-00573; NH8.02/BG1.06-1TU2P-0484
Al Chami, Z.; Terzano, R.; Mondelli, D.; Vekemans, B.; Janssens, K.; Miano, T.; Ruggiero, P.
Effect of compost amendment on zinc speciation in soil and edible plants (*Eruca vesicaria* Cavaleri): Evaluation with conventional and advanced techniques.
- XY0485**; EGU2007-A-09308; NH8.02/BG1.06-1TU2P-0485
Santoro, A.; Terzano, R.; Spagnuolo, M.; Fiore, S.; Medici, L.; Ruggiero, P.
Mercury distribution and speciation in agricultural soils around a polluted site in the South of Italy
- XY0486**; EGU2007-A-00577; NH8.02/BG1.06-1TU2P-0486
Lyapina, E.E.; **Golovatskaya, E.A.**; Preis, Yu.I.
Concentration and distribution of mercury in the West Siberian peatlands
- XY0487**; EGU2007-A-02087; NH8.02/BG1.06-1TU2P-0487
Nnadi, F.; Fulkerson, M.
Simplified approach to predicting Mercury deposition
- XY0488**; EGU2007-A-01920; NH8.02/BG1.06-1TU2P-0488
Hanesch, M.; Rantitsch, G.; Scholger, R.
Delineation of polluted areas by evaluation of magnetic susceptibility maps – comparison of different background definitions
- XY0489**; EGU2007-A-03031; NH8.02/BG1.06-1TU2P-0489
Kanevski, M.; Pozdnoukhov, A.; Timonin, V.; Maignan, M.
Machine learning and geostatistics for multivariate soil contamination mapping
- XY0490**; EGU2007-A-11043; NH8.02/BG1.06-1TU2P-0490
Adam, K.; Kourtis, A.; Dimopoulou, E.; Voudouris, N.; Shiathas, A.; Konstantinides, D.
Development and application of an integrated in-situ monitoring and remote sensing methodology for the assessment of soil quality and reclamation priorities in old industrial sites
- XY0491**; EGU2007-A-02587; NH8.02/BG1.06-1TU2P-0491
Saghatelian, A.; Sahakyan, L.
Evolution of heavy metal concentrations in soils during man-made pollution

XY0492; EGU2007-A-00765; NH8.02/BG1.06-1TU2P-0492
Saghatelyan, A.; Arevshatyan, S.; Sahakyan, L.
 Heavy metals in system "soil-farm produce-organism" within the area of environmental impact of ore-mining production

XY0493; EGU2007-A-03412; NH8.02/BG1.06-1TU2P-0493
Saghatelyan, A.; Nalbandyan, M.
 Geochemical characteristic of heavy metal contents for Armenia's rivers

XY0494; EGU2007-A-04112; NH8.02/BG1.06-1TU2P-0494
Galvez, R.; Locat, J.; Aubé-Turcotte, I
 Speciation and mobility of heavy metals in sediment at the Saguenay River (Quebec, Canada) after a major flood Event

XY0495; EGU2007-A-08607; NH8.02/BG1.06-1TU2P-0495
Chrysochoou, M.; Shen, G.; Dermatas, D.; Grubb, D.G.; Braida, W.; Christodoulatos, C.
 Tungsten (W) and lead (Pb) leaching behavior in firing range soils

XY0496; EGU2007-A-08632; NH8.02/BG1.06-1TU2P-0496
Chrysochoou, M.; Dermatas, D.; Grubb, D.G.
 Comparison of the TCLP, sequential extraction test and SPLP for evaluating lead leachability in firing range soils

XY0497; EGU2007-A-02233; NH8.02/BG1.06-1TU2P-0497
Belviso, C.; Cavalcante, F.; Fiore, S.
 Synthesis of zeolites from coal fly ash by hydrothermal process with salt and distilled water. Potential utilization to the reduce amount of heavy metals in contaminated areas

XY0498; EGU2007-A-11305; NH8.02/BG1.06-1TU2P-0498
Kostarelos, K.; Ringenary, M.J.
 Long-term sediment bioassay of lead (Pb) toxicity in two generations of the marine amphipod 'elasmopus laevis'

XY0499; EGU2007-A-07549; NH8.02/BG1.06-1TU2P-0499
Park, K.S.; Kim, Y.; Lee, J.E.
 Mobility of heavy metals related to mineralogical changes in the mine tailings deposited on the riverside

XY0500; EGU2007-A-00936; NH8.02/BG1.06-1TU2P-0500
Saari, H.-K.; Schmidt, S.; Coynel, A.; Huguet, S.; Schäfer, J.; Blanc, G.
 Potential impact of former Zn ore extraction activities on uranium distribution in the Riou-Mort watershed (France)

XY0501; EGU2007-A-02969; NH8.02/BG1.06-1TU2P-0501
Moulin, J.; Reyss, J.-L.
 Study of natural U-Th series radionuclides behaviour in superficial water for management of water quality in U mine environment

XY0502; EGU2007-A-01705; NH8.02/BG1.06-1TU2P-0502
Dolenec, T.; Serafimovski, T.; Dolenec, M.; Dobnikar, M.; Tasev, G.; Pivko, B.
 Influence of mining related activity on heavy metals in water and sediment from the Kalimanci Lake (NE Macedonia)

XY0503; EGU2007-A-01712; NH8.02/BG1.06-1TU2P-0503
Rogan, N.; Dolenec, T.; Serafimovski, T.; Dolenec, M.; Tasev, G.; Dobnikar, M.
 Trace metal concentrations of metal, paddy soil and rice of the Koëani field (Eastern Macedonia) due to base metal mining activities

XY0504; EGU2007-A-10085; NH8.02/BG1.06-1TU2P-0504
Zanuzzi, A.; Faz, A.
 Phytostabilization assisted by amendments: a low cost alternative for mine soil reclamation in Cartagena-La Unión Mining District, SE Spain

XY0505; EGU2007-A-10153; NH8.02/BG1.06-1TU2P-0505
Faz, A.; Zanuzzi, A.; Carmona, D.; Mermut, A.
 Mining soil remediation using pig manure: an alternative for its sustainable reutilization

XY0506; EGU2007-A-11215; NH8.02/BG1.06-1TU2P-0506
Holden, P.J.; Ben-David, E.A.; Wilde, K.L.; Hammer-ton, K.M.; Stone, D.J.; Russell, R.A.; Foster, L.J.R.
 Evaluation of the use of microbial measures to characterise impact of acid rock drainage on Australian rivers

XY0507; EGU2007-A-00970; NH8.02/BG1.06-1TU2P-0507
Reyes, C.; Duenas, R.; Saltikov, C.
 The role of multiheme c-type cytochromes in Shewanella sp. ANA-3 with respect to iron (III) reduction

NH8.04/BG1.04 Spatial and temporal patterns of wild-fires: models, theory, and reality (co-organized by BG & NH)

Convener: McKenzie, D.
 Co-Convener(s): Malamud, B., Ricotta, C.
 Lecture Room 16 (L)
 Chairperson: MCKENZIE, D. & MALAMUD, B.D.

15:30–15:45; EGU2007-A-06562; NH8.04/BG1.04-1TU4O-001
Hu, F.S.; Higuera, P.; Rupp, S.; Brubaker, L.
 Responses of Boreal-Forest Fire Regimes to Holocene Climatic Change in Alaska: The Key Role of Vegetational Composition

15:45–16:00; EGU2007-A-09416; NH8.04/BG1.04-1TU4O-002
Power, M.; Marlon, J.; Ortiz, N.; THE IGBP PALEOFIRE FTI PARTICIPANTS
 Changes in fire regime since the LGM: an assesment based on global synthesis and anlaysis of charcoal data (cancelled)

16:00–16:15; EGU2007-A-01041; NH8.04/BG1.04-1TU4O-003
Hessburg, P.; Salter, B.; James, K.
 Re-examining pre-management era fire severity relations: inferences from landscape patterns of forest structure

16:15–16:30; EGU2007-A-07893; NH8.04/BG1.04-1TU4O-004
ROMAN-CUESTA, RM; CARMONA-MORENO, C
 Pacific and North Atlantic Ocean warming and their impacts on global fire patterns

16:30–16:45; EGU2007-A-09193; NH8.04/BG1.04-1TU4O-005
Littell, J.; McKenzie, D.; Peterson, D.; Westerling, A.
 Climatic controls on the area burned by wildfire in the western U.S.

16:45–17:00; EGU2007-A-09444; NH8.04/BG1.04-1TU4O-006
Spracklen, D.V.; Logan, J.A.; Mickley, L.J.; Park, R.J.; Flannigan, M.D.; Westerling, A.L.; Jaffe, D.
 Future climate change increases western US wildfires and summertime organic carbon aerosol concentrations

17:00 COFFEE BREAK

Chairperson: MALAMUD, B.D. & MCKENZIE, D.

17:30–17:45; EGU2007-A-04221; NH8.04/BG1.04-1TU5O-001
Fiorucci, P.; Gaetani, F.; Minciardi, R.
Wildfire regime and territorial features

17:45–18:00; EGU2007-A-10819; NH8.04/BG1.04-1TU5O-002
Pereira, M. G.; Trigo, R. M.; Pereira, J. M.; Malamud, B. D.
The fire regime in Portugal

18:00–18:15; EGU2007-A-01430; NH8.04/BG1.04-1TU5O-003
Lanorte, A.; Lasaponara, R.; **Telesca, L.**
Behavioral trends observed in pre- and post-fire satellite NDVI time series

18:15–18:30; EGU2007-A-07842; NH8.04/BG1.04-1TU5O-004
Corral, A.; Telesca, L.; Lasaponara, R.
Scaling laws for the distributions of recurrence times for forest fires in Italy

18:30–18:45; EGU2007-A-07509; NH8.04/BG1.04-1TU5O-005
Wetzel, K.-F.; Sass, O.; Friedmann, A.
Wildfires in the Northern Limestone Alps - the thin line between recovery and degradation

18:45–19:00; EGU2007-A-04737; NH8.04/BG1.04-1TU5O-006
Cary, G.; Flannigan, M.; Keane, R.; Bradstock, R.; Davies, I.; Lenihan, J.; Li, C.; Logan, K.; Parsons, R.
Relative importance of fuel management, ignition management and weather to area burned: Comparison of five landscape-fire-succession models

19:00 END OF SESSION

NH9.03 Early warning systems and multidisciplinary approaches in natural hazards and risk assessments

Convener: Glade, T.
Co-Convener(s): Stöetter, J., Guzzetti, F., Nadim, F.
Lecture Room 16 (L)
Chairperson: GUZZETTI, F.

13:30–13:45; EGU2007-A-11407; NH9.03-1TU3O-001
Mayer, R.; Planck, C.
MONITOR – Hazard Monitoring for Risk Assessment and Risk Communication

13:45–14:00; EGU2007-A-09608; NH9.03-1TU3O-002
Frigerio, S.; Sterlacchini, S.; De Amicis, M.; Canziani, M.; Sironi, S.; Poli, S.; Villa, F.
Integration between hazard scenario and local civil protection workflow with GIS techniques

14:00–14:15; EGU2007-A-07855; NH9.03-1TU3O-003
Romang, H.; Hegg, C.; Dufour, F.; Hilker, N.; Rhyner, J.
IFKIS-Hydro – a Flood Hazard Information and Warning System for smaller Catchments

14:15–14:30; EGU2007-A-06443; NH9.03-1TU3O-004
Mueller, M.; Tinz, M.; Holzhauer, V.; Assmann, A.; Krahe, P.; Bliefernicht, J.; Daamen, K.; Kunz, M.; Meinel, G.
Flood risk management service for the Bavarian Danube basin within EC FP6 Integrated Project PREVIEW

14:30–14:45; EGU2007-A-01729; NH9.03-1TU3O-005
Van Den Eeckhaut, M.; Poesen, J.; Govers, G.; Verstraeten, G.; Demoulin, A.
New insights in the size distribution of recent and historical landslides in a populated hilly region

14:45–15:00; EGU2007-A-04237; NH9.03-1TU3O-006
Hegglin, E.; **Huggel, C.**
A method towards integrative assessment of vulnerability to glacial lake outburst-floods in developing-country communities: a case study in the Cordillera Blanca, Peru

15:00 END OF SESSION

NH9.03 Early warning systems and multidisciplinary approaches in natural hazards and risk assessments – Posters

Convener: Glade, T.
Co-Convener(s): Stöetter, J., Guzzetti, F., Nadim, F.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: GLADE, T.

XY0508; EGU2007-A-04163; NH9.03-1TU5P-0508
Bischof, N.; Lienert, C.
The Swiss Virtual Campus “Dealing with Natural Hazards and Risks, NAHRIS”

XY0509; EGU2007-A-04493; NH9.03-1TU5P-0509
Matova, M.
About human impact in geological hazards

XY0510; EGU2007-A-04544; NH9.03-1TU5P-0510
Matova, M.
Prediction of several geological hazards in Bulgaria

XY0511; EGU2007-A-08375; NH9.03-1TU5P-0511
Petrova, E.
Natural hazards as pre-conditions for technological disasters in Russian regions

XY0512; EGU2007-A-07305; NH9.03-1TU5P-0512
The ‘Mountain Risks’ research team, -; The ‘Mountain Risks’ research team
The ‘Mountain Risks’ research project: challenges in risk prediction, management and governance.

XY0513; EGU2007-A-09248; NH9.03-1TU5P-0513
Bartholmes, J.C.; Thielen, J.; Ramos, M.H.; de Roo, A.; Kalas, M.; van der Knijff, J.
The European flood alert system EFAS

XY0514; EGU2007-A-08341; NH9.03-1TU5P-0514
Nester, T.; Schöbel, A.; Drabek, U.; Rachoy, C.; Wieseneger, H.
Flood warning systems for railways

XY0515; EGU2007-A-02625; NH9.03-1TU5P-0515
Salvati, P.; Bianchi, C.; **Guzzetti, F.;** Balducci, V.
A New Historical Catalogue of Landslide and Flood Events in Umbria, Central Italy

XY0516; EGU2007-A-11197; NH9.03-1TU5P-0516
Bell, R.; Blöchl, A.; Glade, T.; Braun, B.
Economic landslide risk analysis in the Swabian Alb (SW-Germany)

XY0517; EGU2007-A-06514; NH9.03-1TU5P-0517
Chen, S.-C.; Wu, C.-Y.; **Ko, Y.-C.**
Risk assessment of debris flow disaster in Songhe village in Taiwan

XY0518; EGU2007-A-06870; NH9.03-1TU5P-0518
Carvalho, J.; Torres, L.; Castro, R.; Dias, R.; **Mendes-Victor, L.**
Seismic Velocities and Geotechnical Data Applied to the Soil Microzoning of Western Algarve

XY0519; EGU2007-A-04406; NH9.03-1TU5P-0519
Crosta, G.B.; Frattini, P.; Lari, S.; Ceriani, M.; Zaccane, A.; Triacchini, G.; Oliveri, S.
A multi-risk analysis for Lombardia Region, Italy

XY0520; EGU2007-A-07879; NH9.03-1TU5P-0520
Skøien, J.O.; Pebesma, E.J.; Blöschl, G.
Geostatistics for automatic estimation of environmental variables – simple solutions

NH12 Interoperability and data access requirements for disaster reduction and emergency management (co-listed in GI)

Convener: Nagy-Rothengass, M.
Co-Convener(s): Messerotti, M., Fabbri, K.
Lecture Room 18
Chairperson: NAGY-ROTHENGASS, M.

17:30–17:45; EGU2007-A-11539; NH12-1TU5O-001
Fabbri, K.; Nagy-Rothengass, M.
Towards an information infrastructure for environmental risk management in Europe (solicited)

17:45–18:00; EGU2007-A-08557; NH12-1TU5O-002
Caballero, D.; Esteban, J.; Izquierdo, B.
ORCHESTRA a Unified Open Architecture for Risk Management Applications (solicited)

18:00–18:15; EGU2007-A-01852; NH12-1TU5O-003
Alegre, C.; Pi, A.; Monfort, C.; Chanavas, B.
WIN a new SOA for risk management (solicited)

18:15–18:30; EGU2007-A-08934; NH12-1TU5O-004
Parthiot, F.; Girin, M.; Sandven, S.; Pettersson, L.
Interoperable GMES services for environmental risk management in marine and coastal areas (InterRisk) (solicited)

18:30–18:45; EGU2007-A-09638; NH12-1TU5O-005
Löwe, P.; Häner, R.; Fleischer, J.; Günther, M.; Wächter, J.
The role of SWE for interoperability in GITEWS (solicited)

18:45–19:00; EGU2007-A-08812; NH12-1TU5O-006
Mobaraki, A.; Mansourian, A.; Malek, M.
The role of mobile GIS and SDI in emergency management (solicited)

19:00 END OF ORAL SESSIONS

Chairperson: MESSEROTTI, M.

19:00–19:15; EGU2007-A-06160; NH12-1TU6O-001
Ahmadian, Somai; Mansourian, Ali; Saadat Seresht, M.
Investigation of Different Algorithms for Modeling Optimum Path Finding for Emergency Evacuation (solicited)

19:15–19:30; EGU2007-A-11314; NH12-1TU6O-002
Bentley, R.D.
Managing Space Weather risks - the example of aviation (solicited)

19:30–19:45; EGU2007-A-11315; NH12-1TU6O-003
Carusi, A.; D'Abramo, G.; Valsecchi, G.B.
Cosmic impact risk: early warning and response capacity (solicited)

19:45–20:00; EGU2007-A-11545; NH12-1TU6O-004
Messerotti, M.
The Virtual Information Manager: an advanced architecture for information interoperability (solicited)

20:00 END OF SESSION

Nonlinear Processes in Geosciences

NP2.01 ENSO: dynamics, predictability and response to climate change (co-listed in CL & OS) – Posters

Convener: Timmermann, A.
Co-Convener(s): Jin, F., Guilyardi, E.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0521; EGU2007-A-00154; NP2.01-1TU3P-0521
Alcala-Gutierrez, J.; García-Concepción, O.; Ramírez-Sánchez, H.; Meulenert-Peña, A.; García-Guadalupe, M.
Synoptic-statistical dependence of the midsummer (Canícula) in the Mexican Republic during “El Niño” Years

XY0522; EGU2007-A-00298; NP2.01-1TU3P-0522
Zheng, F.; Zhu, J.; Zhang, R.-H.; Zhou, G.-Q.
Ensemble Hindcasts of SST Anomalies in the Tropical Pacific Using an Intermediate Coupled Model

XY0523; EGU2007-A-00872; NP2.01-1TU3P-0523
Busby, S. J.; Briffa, K. R.; Osborn, T. J.
HadCM3 representation of ENSO forcings on drought in the U.S.

XY0524; EGU2007-A-00978; NP2.01-1TU3P-0524
Goelzer, H.; Levermann, A.; Rahmstorf, S.
Response of the global coupled climate model CLIMBER-3alpha to ENSO variability

XY0525; EGU2007-A-02287; NP2.01-1TU3P-0525
Roberts, M
Sensitivity of ENSO simulation to coupled model resolution

XY0526; EGU2007-A-03070; NP2.01-1TU3P-0526
Jansen, M.; Dommenges, D.; Keenlyside, N.
Statistical toy models of the tropical Atlantic and Indian Ocean-atmosphere interaction and their interactions with ENSO

XY0527; EGU2007-A-03261; NP2.01-1TU3P-0527
Knopf, B.; Zickfeld, K.; Petoukhov, V.
The relationship between ENSO and the Indian Monsoon in a changing climate

XY0528; EGU2007-A-04159; NP2.01-1TU3P-0528
Heaviside, C.; Czaja, A.
The role of moist regions in driving the cross equatorial atmospheric heat transport

XY0529; EGU2007-A-04226; NP2.01-1TU3P-0529
Bosc, C.; Delcroix, T.
Equatorial Waves and Warm water volume changes in the equatorial Pacific

XY0530; EGU2007-A-04873; NP2.01-1TU3P-0530
Sokolikhina, E.V.; Semenov, E.K.; Sokolikhina, N.N.
The Vertical Circulation Anomalies in the Tropical Atmosphere above the Pacific during the Extreme El-Nino and La-Nina Events

XY0531; EGU2007-A-04997; NP2.01-1TU3P-0531
López-Otálvaro, G.-E.; Flores, J.-A.; Sierro, F.-J.
 Evolution of coccolithophore carbonate content in the eastern tropical Pacific during the last climatic cycles (ODP sites 1240 and 1241)

XY0532; EGU2007-A-06661; NP2.01-1TU3P-0532
 Philip, S.Y.; **van Oldenborgh, G.J.**
 Characteristics of atmospheric noise related to ENSO.

XY0533; EGU2007-A-07487; NP2.01-1TU3P-0533
 Zheng, W.; **Braconnot, P.**; Guilyardi, E.; Merkel, U.; Yu, Y
 ENSO at 6ka and 21 ka from ocean-atmosphere coupled simulations

XY0534; EGU2007-A-08712; NP2.01-1TU3P-0534
Ineson, S.; Scaife, A.
 ENSO-NAO interactions in an atmospheric model

NP2.03 Nonlinear low-frequency variability in atmosphere, ocean and the climate system (co-listed in CL & OS) – Posters

Convener: Dethloff, K.
 Co-Convener(s): Dijkstra, H., Crommelin, D.
 Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 13:30–15:00
 Poster Area Halls X/Y
 Chairperson: DIJKSTRA, H.

XY0535; EGU2007-A-04693; NP2.03-1TU3P-0535
Stendel, M.; Christensen, J.H.
 Arctic climate processes and European climate evolution on interannual to multidecadal time scales

XY0536; EGU2007-A-10114; NP2.03-1TU3P-0536
Brand, S.; Dethloff, K.; Handorf, D.
 Influence of ozone chemistry on atmospheric variability in a coupled climate model

XY0537; EGU2007-A-10843; NP2.03-1TU3P-0537
Zhu, X.; Fraedrich, K.; Blender, R.
 Variability of the Meridional Overturning Circulation

XY0538; EGU2007-A-10643; NP2.03-1TU3P-0538
 Kollosche, M.; Sempf, M.; **Dethloff, K.**
 Atmospheric Regime Behaviour in the Southern Hemisphere

XY0539; EGU2007-A-00962; NP2.03-1TU3P-0539
Pisnichenko, I.A.; Tarasova, T.A.
 Investigation of the impact of radiative forcing on long-term atmospheric variability through comparison of results of two climate Eta model integrations with different longwave radiation schemes.

XY0540; EGU2007-A-05330; NP2.03-1TU3P-0540
Dolaptchiev, S.; Klein, R.
 Model equations for atmospheric motions on planetary scales

XY0541; EGU2007-A-05600; NP2.03-1TU3P-0541
 Feliks, Y.; **Ghil, M.**
 Interannual, synchronized oscillations over the North Atlantic, Eastern Mediterranean and Ethiopian Plateau

XY0542; EGU2007-A-08992; NP2.03-1TU3P-0542
Chekroun, M.; Ghil, M.; Simonnet, E.
 Rigorous treatment of limit cycles in periodically forced quasi-geostrophic models

XY0543; EGU2007-A-04791; NP2.03-1TU3P-0543
Pierini, S.
 Geometrical effects in a double-gyre model of the Kuroshio Extension

XY0544; EGU2007-A-07738; NP2.03-1TU3P-0544
Kunitsyn, V.; Zakharov, V.; Dethloff, K.; Neuber, R.; Rinke, A.
 Some initial results of using correction technique for radio occultation data in Arctic region

NP3.01 Scale, scaling and nonlinear variability in aquatic biogeosystems (co-listed in BG & OS) – Posters

Convener: Schmitt, F.
 Co-Convener(s): Nikora, V.
 Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 15:30–17:00
 Poster Area Halls X/Y
 Chairperson: SCHMITT, FG

XY0545; EGU2007-A-07035; NP3.01-1TU4P-0545
Nikora, V.
 Biophysical Coupling in Benthic Ecosystems: Scales, Hydrodynamic Equations, Double-Averaging Methodology

XY0546; EGU2007-A-09975; NP3.01-1TU4P-0546
Li, M.-Y.; Michalak, A. M.; Adriaens, P.
 Reproducing Spatial Variability Using A Novice Multi-Scale Model: An Example with Dioxin Data from Sediments in an Estuarine River

XY0547; EGU2007-A-00455; NP3.01-1TU4P-0547
Zongo, S. B.; Schmitt, F. G.
 Statistical analysis of long term biological time series: power spectra and bivariate extremes

XY0548; EGU2007-A-08339; NP3.01-1TU4P-0548
Huang, Y.X.; Schmitt, F.G.; Lu, Z.M.; Liu, Y.L.
 Analysis of Daily River Flow Fluctuations Using Empirical Mode Decomposition

NP3.02 Scale, Scaling, nonlinear variability and turbulent structures in oceans, atmosphere and the climate (co-listed in AS, BG, CL & OS) – Posters

Convener: Lovejoy, S.
 Co-Convener(s): Tuck, A., Falkovich, G., Barros, A.
 Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 15:30–17:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0549; EGU2007-A-02119; NP3.02-1TU4P-0549
 Jafari, M.; Joodaki, Gh.; Nafisi, V.; Safari, A.
 Estimation of sea surface topography using orthogonal functions over Persian Gulf and Oman Sea

XY0550; EGU2007-A-07291; NP3.02-1TU4P-0550
 Kordzadze, A.; **Surmava, A.**; Demetrashvili, D.
 Numerical investigation of the surrounding relief influence on distribution of wind field over the Black Sea

XY0551; EGU2007-A-05207; NP3.02-1TU4P-0551
 Erokhin, N.S.; Zolnikova, N.N.; **Mikhailovskaya, L.A.**
 A nonlinear model of the tropical hurricane full life cycle

XY0552; EGU2007-A-10462; NP3.02-1TU4P-0552
Jackson, L.; Hallberg, R.; Legg, S
 A parameterisation of shear-driven turbulence for ocean climate models.

XY0553; EGU2007-A-11402; NP3.02-1TU4P-0553
Zhang, F.; Bei, N.; Rotunno, R.; Snyder, C.
 A multistage error growth conceptual model for moist atmospheric predictability

XY0554; EGU2007-A-05699; NP3.02-1TU4P-0554
Stolle, J.; Radkevitch, A.; Lovejoy, S.; Lin, C.; Vasic, S.; Schertzer, D.

The scaling properties of meteorological analyses and numerical models of the atmosphere

XY0555; EGU2007-A-10020; NP3.02-1TU4P-0555
Radkevitch, A.; **Lovejoy, S.**; Schertzer, D.; Strawbridge, K.
The Space-time evolution of atmospheric structures: the role of the vertical velocity

XY0556; EGU2007-A-09933; NP3.02-1TU4P-0556
Lovejoy, S.; Schertzer, D.
The $L^{**1/2}$ particle number law in rain

XY0557; EGU2007-A-10616; NP3.02-1TU4P-0557
Varotsos, C.
Long-range Correlations in the Atmospheric Greenhouse Effect and the Ozone Dynamics: Facts and Illusions (cancelled)

XY0558; EGU2007-A-10435; NP3.02-1TU4P-0558
Bouchet, F.; Gallaire, F.; Simonnet, E.
Out of equilibrium statistical mechanics and stochastic dynamics of two dimensional flows

NP3.03 Scaling, subgrid models, downscaling and parameterization – Posters

Convener: Parlange, M.
Co-Convener(s): de Lima, I.; Meneveau, C.; Tribbia, J.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: DE LIMA, I.

XY0559; EGU2007-A-08976; NP3.03-1TU4P-0559
Ruprecht, D.; Majda, A. J.; Klein, R.
A multiscale model for the interaction of bulk microscale hot towers with convective scale motions

XY0560; EGU2007-A-09732; NP3.03-1TU4P-0560
Fister, W.; Ries, J.B.
Concept and calibration of a portable wind and rain simulator

XY0561; EGU2007-A-10118; NP3.03-1TU4P-0561
Porte-Agel, F.; Stoll, R.; Chamorro, L.
A new anisotropic dynamic model for LES: Application to stable boundary layers

XY0562; EGU2007-A-09088; NP3.03-1TU4P-0562
Glazunov, A.
Large eddy simulation of rough-wall-bounded turbulent channel flow using localized dynamic closure and high-order numerical scheme

XY0563; EGU2007-A-01006; NP3.03-1TU4P-0563
Kamkar-Rouhani, A.
Using the multi-domain Chebyshev spectral method to approximate the electric charge density in 3D resistivity forward modelling problem

XY0564; EGU2007-A-10440; NP3.03-1TU4P-0564
Higgins, C.; Parlange, M.; Meneveau, C.
Statistical-geometric tools for studying vector and tensor-based parameterizations for geophysical transport processes

XY0565; EGU2007-A-09373; NP3.03-1TU4P-0565
Lovejoy, S.; Schertzer, D.
The $L^{**1/2}$ particle number law in rain (cancelled)

NP3.04 Geophysical extremes: Scaling aspects and modern statistical approaches – Posters

Convener: Cârsteanu, A.
Co-Convener(s): Tchiguirinskaia, I.; Bunde, A.; Koutsoyannis, D.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: TCHIGUIRINSKAIA, I.

XY0566; EGU2007-A-02844; NP3.04-1TU4P-0566
Eichner, J. F.; Kantelhardt, J. W.; Bunde, A.; Havlin, S.
Statistics of return intervals in long-term correlated records

XY0567; EGU2007-A-02853; NP3.04-1TU4P-0567
Rybski, D.; Bunde, A.; von Storch, H.
Long-term memory in 1000 years simulated temperature records

XY0568; EGU2007-A-10885; NP3.04-1TU4P-0568
Castro, J.J.; **Carsteanu, A.A.**; Salcido, A.; Berdeja, I.A.; Rios, R.
Multifractal non-stationarity effects on atmospheric extreme events

XY0569; EGU2007-A-04686; NP3.04-1TU4P-0569
Veneziano, D.; **Lepore, C.**; Langousis, A.; Furcolo, P.
Scaling, Partial-Scaling and Classical Methods of IDF Curve Estimation

XY0570; EGU2007-A-11509; NP3.04-1TU4P-0570
Nhat, L.M.; Tachikawa, Y.; Sayama, T.; Takara, K.
A study of the scale invariance of rainfall in time and space to derive intensity duration frequency relationships

XY0571; EGU2007-A-07791; NP3.04-1TU4P-0571
Khristoforova, D. A.
Causes and consequences of the critical periods in the Earth history

XY0572; EGU2007-A-09456; NP3.04-1TU4P-0572
Lennartz, S.; Livina, V.; Eichner, J.; Bunde, A.; Havlin, S.
Long-Term Memory in Earthquakes and the Distribution of Interoccurrence Times

XY0573; EGU2007-A-11253; NP3.04-1TU4P-0573
Papalexiou, S.; Montanari, A.; Koutsoyiannis, D.
Scaling properties of fine resolution point rainfall and inferences for its stochastic modelling

NP3.05 Uncertainty, Random Dynamical Systems and Stochastic Modeling in Geophysics – Posters

Convener: Pavlyukevich, I.
Co-Convener(s): Schertzer, D.; Nadiga, B.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0574; EGU2007-A-10564; NP3.05-1TU4P-0574
Schmitt, F.G.; Perpete, N.; Viano, M.-C.
A log-FARIMA truncated model generating discrete time multifractal time series

XY0575; EGU2007-A-03781; NP3.05-1TU4P-0575
Friederichs, P.; Kahm, M.; Hense, A.
Inverting the quasi-geostrophic PV equation using a stochastic projection method under the uncertainty formulation of the static stability

XY0576; EGU2007-A-04835; NP3.05-1TU4P-0576
Afshar, G.; Ghanbarnejad, F.; Eskandari, Z.; Jafari, G.; Movahed, M.; Pacheco, A.; Sahimi, M.; Rahimi Tabar, M.
 Detrended fluctuation analysis to monitor main and after-shocks in the California earthquake interevents

XY0577; EGU2007-A-05528; NP3.05-1TU4P-0577
Campbell, L.; Moroz, I.; Lyons, T.; Norbury, J.; Machete, R.
 Stochastic perturbations of the swinging spring model

XY0578; EGU2007-A-08283; NP3.05-1TU4P-0578
 De Lauro, E.; De Martino, S.; **Falanga, M.;** Palo, M.
 A model for Strombolian tremor

NP3.06 Dynamics of Seismicity Patterns and Earthquake Triggering (co-listed in SM) – Posters

Convener: Hainzl, S.
 Co-Convener(s): Zoeller, G., Main, I.
 Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 15:30–17:00
 Poster Area Halls X/Y
 Chairperson: MAIN, I.

XY0579; EGU2007-A-00324; NP3.06-1TU4P-0579
Matcharashvili, T.; Chelidze, T.; Khutsishvili, T.; Zhukova, N.; Mepharidze, E.
 Control of temporal distribution of stick slip acoustic emission by periodic electromagnetic forcing

XY0580; EGU2007-A-06025; NP3.06-1TU4P-0580
 Matcharashvili, T.; **Peinke, J.;** Chelidze, T.; Gogiashvili, J.L.; Lursmanashvili, O.; Javakhishvili, Z.; Ahrens, B.
 Influence of periodic variations in water level on regional seismic activity around a large reservoir: field data and model

XY0581; EGU2007-A-06807; NP3.06-1TU4P-0581
Keilis-Borok, V.I.; Soloviev, A.A.; Gabrielov, A.M.
 Structure of fault network and precursory seismicity patterns

XY0582; EGU2007-A-05390; NP3.06-1TU4P-0582
Shebalin, P.; Keilis-Borok, V.
 Results of the first 3.5 years of the experiment in prospective earthquake prediction using Reverse Tracing of Precursors (RTP)

XY0583; EGU2007-A-02644; NP3.06-1TU4P-0583
Mignan, A.; King, G.C.P.; Bowman, D.
 Accelerating seismicity before large earthquakes and the Stress Accumulation Model

XY0584; EGU2007-A-07076; NP3.06-1TU4P-0584
Nuannin, P.; Kulhanek, O.; Persson, L.
 A study of b-value precursors applied to the Andaman-Sumatra region

XY0585; EGU2007-A-05890; NP3.06-1TU4P-0585
Chan, C.; Ma, K.
 Stress evolution associate with seismicity in the Taiwan region during Chi-Chi postseismic period

XY0586; EGU2007-A-06243; NP3.06-1TU4P-0586
Zoeller, G.; Hainzl, S.
 Recurrence time distributions of large earthquakes: the role of fault interaction

XY0587; EGU2007-A-04231; NP3.06-1TU4P-0587
Marzocchi, W.; Lombardi, A.M.
 a time-dependent statistical distribution for worldwide large earthquakes

XY0588; EGU2007-A-08352; NP3.06-1TU4P-0588
Christophersen, A.; Smith, E.G.C.
 Modelling temporal earthquake occurrence from days to decades

XY0589; EGU2007-A-08173; NP3.06-1TU4P-0589
Hainzl, S.; Marsan, D.
 Dependence of the Omori p-value on mainshock magnitude in rate-and-state friction models

XY0590; EGU2007-A-02066; NP3.06-1TU4P-0590
Marcellini, A.; Daminelli, R.
 Aftershock prediction by the statistical absolute reaction rate model

XY0591; EGU2007-A-04701; NP3.06-1TU4P-0591
 Abaimov, S.G.; Turcotte, D.L.; Rundle, J.B.
 Frequency-amplitude statistics and recurrence time interval statistics of slip events on the creeping section of the San Andreas fault

XY0592; EGU2007-A-07794; NP3.06-1TU4P-0592
 Tosi, P.; De Rubeis, V.; Loreto, V.; Pietronero, L.
 Space-time combined correlations in seismicity

XY0593; EGU2007-A-01089; NP3.06-1TU4P-0593
Gok, E.; Milkereit, C.; Akcig, Z.; Parlaktuna, M.; Erhan, Z.; Polat, O.
 Seismicity of the Bursa Region (Turkey) and its vicinity: results from a microseismic experiment

XY0594; EGU2007-A-06192; NP3.06-1TU4P-0594
 Martínez-Díaz, J. J.; Álvarez-Gómez, J. A.; **García-Mayordomo, J.;** Insua, J. M.
 Seismic triggering process on small sized faults: Southern Betic Cordillera (Spain)

XY0595; EGU2007-A-08946; NP3.06-1TU4P-0595
Yunga, S.;
 Non double couple seismic sources and inhomogeneity of stress state

XY0596; EGU2007-A-01889; NP3.06-1TU4P-0596
Rigo, A.; Béthoux, N.; Masson, F.; Ritz, J.-F.
 Seismicity rate and wave-velocity variations as consequences of rainfall: the case of the catastrophic storm of September 2002 in the Nîmes Fault region (Gard, France).

XY0597; EGU2007-A-07077; NP3.06-1TU4P-0597
Fischer, T.; Horálek, J.; Zedník, J.; Kotek, J.
 Does deep CO₂ discharge listen to distant and local earthquakes?

XY0598; EGU2007-A-09034; NP3.06-1TU4P-0598
 Lemarchand, N.; **Grasso, J.-R.;**
 Interrelationship between earthquakes and volcano eruptions

NP3.07 Scale, Scaling, and nonlinearity in Solid Earth (co-listed in GMPV, NH, SSS & TS) – Posters

Convener: Cheng, Q.
 Co-Convener(s): Gaonac'h, H., Tarquis, A.
 Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 15:30–17:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0599; EGU2007-A-01432; NP3.07-1TU4P-0599
Telesca, L.; Lasaponara, R.; Lanorte, A.
 Quantifying intra-annual persistent behavior in SPOT-VEGETATION multispectral data for vegetation covers of Southern Italy

XY0600; EGU2007-A-01529; NP3.07-1TU4P-0600
 Jiménez, A.; **Posadas, A. M.;** Tiampo, K. F.
 Scaling relations in seismic catalogs

XY0601; EGU2007-A-01546; NP3.07-1TU4P-0601
De Bartolo, S.; **Tarquis, A.M.**; Veltri, M.; Antón, J.M.;
Gaudio, R.; Saa, A.; Primavera, L.
Gliding boxes versus fixed mass algorithm in multifractal
analysis of river networks (solicited)

XY0602; EGU2007-A-02420; NP3.07-1TU4P-0602
Sotolongo-Costa, O.; Gamez, R.; Posadas, A.
Dynamic network model and anomalous diffusion of
hypocenters in cuba: anomalous behavior

XY0603; EGU2007-A-11018; NP3.07-1TU4P-0603
Tarquis, A.M.; Bird, N.R.; Lark, R.M.; Cartagena, M.C.
Scale dependence relationship between soil physical proper-
ties (solicited)

XY0604; EGU2007-A-05408; NP3.07-1TU4P-0604
Kolesov, G.M.
Instrumental neutron activation analysis of extraterrestrial
materials

XY0605; EGU2007-A-06040; NP3.07-1TU4P-0605
Gloaguen, R.; Poreh, D.
Fractal analysis of folds in SE Zagros (Iran)

XY0606; EGU2007-A-09941; NP3.07-1TU4P-0606
Vidal Vázquez, E.; Bertol, I.; Miranda, J.G.V; **Paz
González, A.**
Tillage effect on soil microrelief fractal indices and related
water erosion parameters (solicited)

XY0607; EGU2007-A-10454; NP3.07-1TU4P-0607
Tarquis, A.M.; Perfect, E.
Dependence of multifractal analysis on image resolution and
noise (solicited)

XY0608; EGU2007-A-10516; NP3.07-1TU4P-0608
Oleschko, K.; Tarquis, A.M.
Fractal metrology for images, signals and time seriespro-
cessing in Geosciences

XY0610; EGU2007-A-10874; NP3.07-1TU4P-0610
del Monte, J.P.; Aguado, P.; Tarquis, A.M.; **Gaonac'h, H.**
GIS-based statistical multifractal analysis from a DEM
(solicited)

XY0611; EGU2007-A-11067; NP3.07-1TU4P-0611
Buendía, F.; Piñuela, J.A.; Torres, J.; Andina, D.; Grau, J.B.
Quantifying a preferential flow path in a clay soil: multifractal
and wavelet approach

XY0612; EGU2007-A-11184; NP3.07-1TU4P-0612
Cheng, Q.; Jing, L.
Use of Scaling Models in Remote Sensing Image Fusion and
Image Filtering (solicited)

NP3.08 Scales and scaling in surface and subsurface hydrology (co-listed in HS) – Posters

Convener: de Lima, J.
Co-Convener(s): Krajewski, W., Hunt, A.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: LIMA, J.L.M.P. DE

XY0613; EGU2007-A-07034; NP3.08-1TU4P-0613
de Lima, JLMP; Duarte, CAF; Isidoro, JMGP; de
Lima, MIP
Runoff and associated transport processes in urban areas

XY0614; EGU2007-A-05232; NP3.08-1TU4P-0614
de Lima, JLMP; Souza, CS; Singh, VP; Azevedo, JMM; de
Lima, MIP
Laboratory experiments on the influence of hillslope shape
on the hydrologic response of moving rainstorms

XY0615; EGU2007-A-10941; NP3.08-1TU4P-0615
Cruz, F. F.; Correia, C. G.; Rodrigues, N. E.; **Lima, J. L.**
Characterisation of fractured media: laboratorial tests and
numerical modelling

XY0616; EGU2007-A-10652; NP3.08-1TU4P-0616
Nunes, J.P.; de Lima, J.P.; Singh, V.P.; de Lima, M.P.
Consequences of storm movement direction for surface
runoff and erosion at two scales: plot and watershed

XY0617; EGU2007-A-10712; NP3.08-1TU4P-0617
Nunes, J.P.
Sensitivity of hydrological parameters to changes in climate
in two temporal and spatial scales

XY0618; EGU2007-A-00313; NP3.08-1TU4P-0618
Rouai, M.; Moreau, F; Dauteuil, O
Scaling of fracture network in Al hajeb lias aquifer (Mo-
rocco)

XY0619; EGU2007-A-01836; NP3.08-1TU4P-0619
Mines, C.H.; Ghadouani, A.; Seow, J.
Application of new fluorometric technology for the detection
of point source pollution in urban drainage systems

XY0620; EGU2007-A-02520; NP3.08-1TU4P-0620
Hejkrlik, L.
New clues for explanation of lunar variation of precipitation

XY0621; EGU2007-A-03113; NP3.08-1TU4P-0621
Mandapaka, P; **Krajewski, W**
Evaluation of space-time rainfall models for hydrologic
scaling studies

XY0622; EGU2007-A-03822; NP3.08-1TU4P-0622
Villarini, G.; Lang, J.B.; Lombardo, F.; Napolitano, F.;
Russo, F.; **Krajewski, W.F.**
Impact of different regression frameworks on the estimation
of the scaling properties of radar-rainfall

XY0623; EGU2007-A-07875; NP3.08-1TU4P-0623
Miyata, S.; Kosugi, K.; Gomi, T.; Nishi, Y.; Sidle, R.;
Onda, Y.; Mizuyama, T.
Analysis of scale effect of surface runoff on steep forested
hillslopes

XY0624; EGU2007-A-09376; NP3.08-1TU4P-0624
Forgone, F.; Köles, K; Balla, B
Examination of extreme hidrological conditions in Hungary
utilize GIS

XY0625; EGU2007-A-10544; NP3.08-1TU4P-0625
Trujillo, E.; **Ramirez, J.A.**
Topographic, meteorologic, and canopy controls on the
scaling characteristics of the spatial distribution of snow
depth fields

XY0626; EGU2007-A-05464; NP3.08-1TU4P-0626
Kling, H.; Nachtnebel, HP.
Influence of the spatial discretization on the performance of
a regional water balance model

NP4.01 Nonlinear time series analysis in the geosciences – Posters

Convener: Donner, R.
Co-Convener(s): Barbosa, S.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: BARBOSA, S. / DONNER, R.

XY0627; EGU2007-A-01472; NP4.01-1TU3P-0627

Telesca, L.

Identifying time-clustering structures in the sequence of solar flare hard X-ray bursts

XY0628; EGU2007-A-01431; NP4.01-1TU3P-0628

Lasaponara, R.; Telesca, L.

Persistent behaviors in SPOT-VEGETATION NDVI data for the Italian Mediterranean ecosystems

XY0629; EGU2007-A-08900; NP4.01-1TU3P-0629

Mahecha, M.D.; Lange, H.; Reichstein, M.

Estimation of the $1/f^\alpha$ exponent for very short and fragmented time series: An “Extended Multiple Segmentation Method” (E-MSM)

XY0630; EGU2007-A-06065; NP4.01-1TU3P-0630

Barbosa, S. M.; Steinitz, G.; Piatibratov, O.; Silva, M. E. Multiresolution analysis of high-rate radon time series from the Elat granite, Israel

XY0631; EGU2007-A-04591; NP4.01-1TU3P-0631

Dall’Amico, M.; Egger, J.

On the numerical properties of empirical master equations

XY0632; EGU2007-A-05631; NP4.01-1TU3P-0632

Miksovsky, J.; Raidl, A.

Nonlinearity patterns in real and GCM simulated atmosphere

XY0633; EGU2007-A-02375; NP4.01-1TU3P-0633

Gluhovsky, A.

Subsampling methodology for analysis of nonlinear atmospheric time series (cancelled)

XY0634; EGU2007-A-00465; NP4.01-1TU3P-0634

Polat, O.; Perez-López, R.; Kaftan, I.; Gok, E.; Salk, M.

Non-linear time series and seismic behaviour analysis of Aegean region (Turkey) earthquakes

XY0635; EGU2007-A-01534; NP4.01-1TU3P-0635

Jiménez, A.; Posadas, A. M.; Tiampo, K. F.

Describing seismic pattern dynamics by means of Ising Cellular Automata (solicited)

XY0636; EGU2007-A-05775; NP4.01-1TU3P-0636

Jiménez, A.; Tiampo, K. F.; Posadas, A. M.

Functional networks in earthquakes

XY0637; EGU2007-A-05216; NP4.01-1TU3P-0637

Belyakov, A.S.; Lavrov, V.S.; Muhamedov, V.A.; Nikolaev, A.V.

Seismic spectroscopy under hyperlow frequencies

XY0638; EGU2007-A-04789; NP4.01-1TU3P-0638

Pilipenko, V.A.; Mazur, N.G.; Glassmeier, K-H.

Methods to detect solitons among geophysical signals

XY0639; EGU2007-A-02549; NP4.01-1TU3P-0639

Ardalan, A.A.; Jafari, M.

Application of Least Square Spectral Analysis for Estimation of Precise Coordinates of Permanent GPS Station and Modeling Systematic Effects: A Practical Contribution to Nonlinear Time Series Analysis in Geodesy

XY0640; EGU2007-A-03355; NP4.01-1TU3P-0640

Donner, S.; **Donner, R.**

Temporal Changes in the Eruption Behaviour of the Old Faithful Geyser, Yellowstone National Park: Statistical Description and Implications for Dynamical Models

XY0641; EGU2007-A-10144; NP4.01-1TU3P-0641

Donner, R.; Thiel, M.

Frequency-Dependent Phase Coherence and Phase Shift of Hemispheric Sunspot Activity: A New Look onto the North-South Asymmetry

XY0642; EGU2007-A-02657; NP4.01-1TU3P-0642

Donner, R.; Donner, S.; Witt, A.

Spatial Correlations and Phase Coherence of Hydro-Meteorological Long-Term Observations

XY0643; EGU2007-A-06558; NP4.01-1TU3P-0643

Sakamoto, T.; Tanizuka, N.; **Donner, R.**

Annual variability of fractal dimensions and spatio-temporal correlations in Japanese air temperature records

XY0644; EGU2007-A-06794; NP4.01-1TU3P-0644

Mercader, J.; **miró, JR.;** sairouni, A.; toda, J.; cunillera, J.

Application of NN for improve extremal temperature forecasts over catalonia.

XY0645; EGU2007-A-10966; NP4.01-1TU3P-0645

Peñaranda, V.; Bernal, F.; **Obregón, N.**

Towards a Rainfall Zonation Model via Generalized Multifractal Dimensions Estimated from high resolution rainfall Time Series. Case of Study: Bogotá City (Colombia)

XY0646; EGU2007-A-09926; NP4.01-1TU3P-0646

Rust, H. W.; Timmer, J.

Non-Nested Model Selection for Fractional ARIMA Models

XY0647; EGU2007-A-09716; NP4.01-1TU3P-0647

Becker, M.; Karpytchev, M.; Davy, M.; Doekes, K.

Detecting a jump in long-period sea level records

XY0648; EGU2007-A-09586; NP4.01-1TU3P-0648

Kondrashov, D.; Ghil, M.

Gap filling in incomplete geophysical data sets

NP4.02 Statistical analysis of paleoclimate time series (co-listed in CL) – Posters

Convener: Mudelsee, M.

Co-Convener(s): Witt, A.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0649; EGU2007-A-06026; NP4.02-1TU3P-0649

Koutsyiannis, D.; Efstratiadis, A.; Georgakakos, K. P.

A stochastic methodological framework for uncertainty assessment of hydroclimatic predictions

XY0650; EGU2007-A-01659; NP4.02-1TU3P-0650

Divine, D.; Polzehl, J.; Godtliobsen, F.

A propagation-separation approach to estimating the autocorrelation in a time-series

XY0651; EGU2007-A-01600; NP4.02-1TU3P-0651

Divine, D.; Godtliobsen, F.

Bayesian modeling and significant features exploration in wavelet power spectra

XY0652; EGU2007-A-05872; NP4.02-1TU3P-0652

Van De Wiel, M.J.

Quantitative comparison of trends in palaeo-environmental time series

XY0653; EGU2007-A-05463; NP4.02-1TU3P-0653

Batista, D.; **Naveau, P.**; Ammann, C.

An Automatic and Multivariate Statistical Algorithm to Extract Common Pulse-Like Forcing Factors in Climatic Multivariate Time Series

XY0654; EGU2007-A-08461; NP4.02-1TU3P-0654

Maraun, D.; Kurths, J.; Holschneider, M.

An areawise significance test for wavelet spectral analysis - including a software package of the test, applications to climatological time series are shown.

XY0655; EGU2007-A-11459; NP4.02-1TU3P-0655

Marwan, N.; Breitenbach, S.

Can nonlinear data analysis help to understand climate changes in Asia during the Holocene?

XY0656; EGU2007-A-11458; NP4.02-1TU3P-0656

Prasad, S.; Brauer, A.; Witt, A.; Yancheva, G.

Microfacies analyses of lake sediments provides information on changing seasonal precipitation patterns during the 8.2 ka event

XY0657; EGU2007-A-06608; NP4.02-1TU3P-0657

Donner, R.

Testing the Consistency of a 1470-years Periodic Component in Polar Ice Cores by Means of Phase Coherence Analysis

NP4.03 Simple dynamical models from data: a tool for parametrizations and diagnostics (co-listed in CL) – Posters

Convener: von Hardenberg, J.

Co-Convener(s): D'Andrea, F.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0658; EGU2007-A-03022; NP4.03-1TU3P-0658

Feigin, A.M.; Loskutov, E.M.; Molkov, Ya.I.; Mukhin, D.N.; Timushev, R.I.

Markov Chain Monte Carlo algorithm for Bayesian reconstruction of a dynamical system by noisy chaotic time series and its application to prognosis of bifurcations

XY0659; EGU2007-A-04441; NP4.03-1TU3P-0659

Martinez-Alvarado, O.; Moroz, I.M.; Read, P.L.

Reduced-models of a Martian-like atmosphere over various POD bases

XY0660; EGU2007-A-04637; NP4.03-1TU3P-0660

Kondrashov, D.; Ghil, M

A hierarchy of data-based paleoclimate models

XY0661; EGU2007-A-11161; NP4.03-1TU3P-0661

Gilad, E.; **von Hardenberg, J.**; Kletter, A.; Meron, E.; Provenzale, A.; Schachak, M.

The effect of precipitation intermittency on vegetation patterns

XY0662; EGU2007-A-11173; NP4.03-1TU3P-0662

D'Andrea, F.; Provenzale, A.; Vautard, R.; De Noblet-Ducoudré, N.

Hot and cool summers: multiple equilibria of the continental water cycle

NP4.05/US8 Earthquake prediction: what can be done with the best science available? (co-organized by US) (co-listed in NH & SM) – Posters

Convener: Kossobokov, V.

Co-Convener(s): Keilis-Borok, V., Panza, G., Simon, F., Rouhban, B.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: MOKHTARI, M

XY0663; EGU2007-A-00242; NP4.05/US8-1TU3P-0663

Shapoval, A. B.; Shnirman, M.G.

Universality of Precursors Predicting Largest Earthquake in Advance (solicited)

XY0664; EGU2007-A-01185; NP4.05/US8-1TU3P-0664

Zafar, H. A.; Husain, S.; **Zaidi, S. S.**

Study of precursory signature of shallow earthquakes in Pakistan using ground based ionosonde foF2 measurements: Prediction of earthquake (cancelled)

XY0665; EGU2007-A-01252; NP4.05/US8-1TU3P-0665

Hurukawa, N.; Imoto, M.

Periodic upward migration model for intermediate-depth earthquakes in Vrancea, Romania

XY0666; EGU2007-A-02009; NP4.05/US8-1TU3P-0666

Smirnov, V.M.; **Smirnova, E.V.**

About detecting seismoionospheric variations during geomagnetic perturbations according to GPS data (solicited)

XY0667; EGU2007-A-02404; NP4.05/US8-1TU3P-0667

Murru, M.; Console, R.; Falcone, G.

Real-time short-range earthquake forecasting in Italy (solicited)

XY0668; EGU2007-A-02601; NP4.05/US8-1TU3P-0668

Faenza, L.; Hainzl, S.; Scherbaum, F.

Statistical analysis of the Central-Europe seismicity (solicited)

XY0669; EGU2007-A-02866; NP4.05/US8-1TU3P-0669

Latchman, J.L.; Morgan, F.D.; Aspinall, W.P.

Temporal changes in the cumulative piece-wise gradient of a variant of the Gutenberg-Richter relationship, and the imminence of extreme events (solicited)

XY0670; EGU2007-A-03130; NP4.05/US8-1TU3P-0670

Shcherbakov, R.; Holliday, J.R.; Turcotte, D.L.; Rundle, J.B.

The relative intensity (RI) method for forecasting earthquakes applied to worldwide seismicity (solicited)

XY0671; EGU2007-A-04577; NP4.05/US8-1TU3P-0671

RahimiTabar, M.R.; **Ghasemi, F.**; Sahimi, M.; Pienke, J.

Short-Term Prediction of Medium- and Large-Size Earthquakes Based on Markov and Extended Self-Similarity Analysis of Seismic Data

XY0672; EGU2007-A-05881; NP4.05/US8-1TU3P-0672

Ehara, S.; Fukuoka, K.

Deterministic Earthquake Prediction deduced from Changes in Groundwater Level (solicited)

XY0673; EGU2007-A-06397; NP4.05/US8-1TU3P-0673

Kossobokov, V.

Earthquake sequences: Predictive understanding versus complex reality (solicited)

XY0674; EGU2007-A-06563; NP4.05/US8-1TU3P-0674

Popa, M.; Cadichian, N.; Romashkova, L.L.; Radulian, M.; Stanica, D.; Kossobokov, V.G.

Seismic monitoring aimed at intermediate-term prediction of strong earthquakes in the Vrancea region (solicited)

XY0675; EGU2007-A-06626; NP4.05/US8-1TU3P-0675
Antonyan, A.Sh.; Manukyan, A.V.; Romashkova, L.L.;
 Kossobokov, V.G.
 Re-establishing seismic monitoring aimed at intermediate-term prediction of strong earthquakes in Armenia (solicited)

XY0676; EGU2007-A-06858; NP4.05/US8-1TU3P-0676
Vasheghani Farahani, j.v.f.; Zare, m.z
 Investigation of frequency content and Stress drop based on Main shock Records Darb_e_Astaneh (Silakhor) Earthquake, March 31, 2006

XY0677; EGU2007-A-07147; NP4.05/US8-1TU3P-0677
Slunga, R.
 Use of stress tensor field for earthquake warnings (solicited)

XY0678; EGU2007-A-07407; NP4.05/US8-1TU3P-0678
Rahimi Tabar, M. R.; Sahimi, M.; Mokhtari, M.; Peinke, J.
 Short-Term Prediction of Medium- and Large-Size Earthquakes Based on Markov and Extended Self- Similarity Analysis of Seismic Data

XY0679; EGU2007-A-07554; NP4.05/US8-1TU3P-0679
Takeda, T.; Takeo, T
 Physical mechanisms of deterministic seismicity precursory to large earthquakes (solicited)

XY0680; EGU2007-A-07984; NP4.05/US8-1TU3P-0680
Rozovsky, N.
 About retrospective and perspective forecasts of earthquakes

XY0681; EGU2007-A-08643; NP4.05/US8-1TU3P-0681
Barkin, Yu.V.; Ferrandiz, J.M.; Garcia Ferrandez, M.; Navarro, J.F.
 Prediction of catastrophic earthquakes in 21 century

XY0682; EGU2007-A-08905; NP4.05/US8-1TU3P-0682
Barkin, Yu.V.; Garcia Ferrandez, M.; Ferrandiz, J.M.
 Some regularities of the plate motion and space redistribution of big earthquakes

XY0683; EGU2007-A-09640; NP4.05/US8-1TU3P-0683
Sengor, T
 The fundamental process for earthquake prediction becoming a science

XY0684; EGU2007-A-10217; NP4.05/US8-1TU3P-0684
Peresan, A.; Romashkova, L.; Kossobokov, V.; Rotwain, I.; Rosso, M.; Panza, G.F.
 Real time testing of CN and M8S earthquake prediction algorithms in Italy

XY0685; EGU2007-A-11384; NP4.05/US8-1TU3P-0685
Antonyan, A.Sh.
 Developing early warning system for the capital of Armenia (solicited)

XY0686; EGU2007-A-11386; NP4.05/US8-1TU3P-0686
Shebalin, P.; Keilis-Borok, V.
 Experiment in prospective earthquake prediction using Reverse Tracing of Precursors (RTP): evaluation of first results (solicited)

XY0688; EGU2007-A-02787; NP5.01-1TU5P-0688
Vannitsem, S.; Nicolis, C.
 Dynamical properties of model output statistics forecasts (solicited)

XY0689; EGU2007-A-11119; NP5.01-1TU5P-0689
Hou, D.; **Toth, Z.**
 A stochastic perturbation scheme for representing model related uncertainty in ensemble forecasting (solicited)

XY0690; EGU2007-A-05171; NP5.01-1TU5P-0690
Macor, J.; Schertzer, D.; Lovejoy, S.
 Multifractal predictability of short-time forecast

XY0691; EGU2007-A-02394; NP5.01-1TU5P-0691
Rivière, O.; Lapeyre, G.; Talagrand, O.
 Nonlinear moist sensitivity of baroclinic systems

XY0692; EGU2007-A-10002; NP5.01-1TU5P-0692
Ngan, K.; Bartello, P.; Straub, D.N.
 Predictability of rotating stratified turbulence

XY0693; EGU2007-A-02651; NP5.01-1TU5P-0693
Beretta, G.P.; **Felletti, F.**
 Boulders expectation in glacial till tunneling: a transition probability geostatistical approach.

XY0694; EGU2007-A-04502; NP5.01-1TU5P-0694
Hachay, O.
 A new method for estimation of the stability station of rock massive by their outworking in deep mines.

XY0695; EGU2007-A-04364; NP5.01-1TU5P-0695
Hallerberg, S.; Kantz, H.
 When are extreme events the better predictable, the more extreme they are?

XY0696; EGU2007-A-06898; NP5.01-1TU5P-0696
Andrianova, A.; Binter, R.; **Smith, L.A.**
 Benchmarks for Weather Forecasts in the medium range and beyond.

XY0697; EGU2007-A-11127; NP5.01-1TU5P-0697
Son, J.-H.; Hou, D.; **Toth, Z.**
 An analysis of different bias-correction algorithms in a synthetic environment

XY0698; EGU2007-A-07389; NP5.01-1TU5P-0698
Machete, R. L.; Broecker, J.; Kilminster, D.; Smith, L. A.; Moroz, I. M.
 Quantifying Predictability using Multiple Ensembles Models under different Models: Limitations on the value of Probabilistic Forecasting

XY0699; EGU2007-A-09060; NP5.01-1TU5P-0699
Broecker, J.; Smith, L. A.
 Scoring Probabilistic Forecasts: The Importance of Being Proper

XY0700; EGU2007-A-09115; NP5.01-1TU5P-0700
Broecker, J.; Smith, L. A.
 Increasing the Reliability of Reliability Diagrams

NP5.01 Quantifying predictability – Posters

Convener: Toth, Z.
 Co-Convener(s): Vannitsem, S., Craig, G.
 Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0687; EGU2007-A-07461; NP5.01-1TU5P-0687
Binter, R.; Broecker, J.; Penzer, J.; Smith, L.A.
 Contrasting methods of ensemble interpretation (solicited)

NP5.02 Data assimilation in the presence of nonlinearities (co-listed in AS) – Posters

Convener: Talagrand, O.
 Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0701; EGU2007-A-07092; NP5.02-1TU5P-0701
Ueno, G.; Higuchi, T.; Kagimoto, T.; Hirose, N.
 State estimation of an intermediate coupled model by the ensemble Kalman filter and smoother

XY0702; EGU2007-A-04024; NP5.02-1TU5P-0702

Rabier, F.; Gauthier, P.; **Langland, R**

Objectives of the THORPEX working group on data assimilation and observing strategies for high impact weather forecast improvements

XY0703; EGU2007-A-10361; NP5.02-1TU5P-0703

Ravela, S; Marshall, J; Stransky, S; Wong, A; Hill, C
A Realtime Laboratory Observatory for Data Assimilation Research

XY0704; EGU2007-A-03180; NP5.02-1TU5P-0704

Ehrendorfer, M.; Errico, R.

Correction of the Barotropic Mode in Data Assimilation Experiments with AMIC

XY0705; EGU2007-A-05157; NP5.02-1TU5P-0705

Koch, R.; Ehrendorfer, M.;; Weissmann, M.

Key Analysis Errors and Airborne Wind LIDAR Measurements

XY0706; EGU2007-A-08281; NP5.02-1TU5P-0706

Bocquet, M.

Mass retrieval and a posteriori error analysis using non-linear inverse modelling techniques applied to atmospheric tracers

XY0707; EGU2007-A-03809; NP5.02-1TU5P-0707

Daget, N.; Weaver, A.

Estimating background-error covariances for variational ocean data assimilation using an ensemble method

XY0708; EGU2007-A-02566; NP5.02-1TU5P-0708

Frydendall, JF; Sørensen, JTS; Madsen, HM

Comparison of the SIRF and EnKF on the Lorenz two scale system

XY0709; EGU2007-A-04541; NP5.02-1TU5P-0709

Terwisscha van scheltinga, A; Dijkstra, D

Nonlinear parameter estimation using an implicit 3d-ocean model

XY0710; EGU2007-A-04640; NP5.02-1TU5P-0710

Kondrashov, D.; Ghil, M.;; Sun, C.

State and parameter estimation for a coupled ocean-atmosphere model

XY0711; EGU2007-A-06677; NP5.02-1TU5P-0711

Leeuwenburgh, O.

Improved methods for bias correction with ensemble filters in seasonal forecast systems

XY0712; EGU2007-A-07682; NP5.02-1TU5P-0712

Rémy, S; Bergot, T

Ensemble Kalman filter assimilation in a boundary layer 1D numerical model

XY0713; EGU2007-A-11044; NP5.02-1TU5P-0713

Nodet, M.

Variational Assimilation of Lagrangian Data in Oceanography

XY0714; EGU2007-A-05396; NP5.02-1TU5P-0714

Naveau, P.; Poncet, P.

Two probabilistic Assimilation Models for Precipitation Maxima

XY0715; EGU2007-A-10961; NP5.02-1TU5P-0715

Masutani, M.; THE NOAA NASA OSSE TEAM

Progress in Observing Systems Simulation Experiments - a New nature run and International collaboration -

XY0716; EGU2007-A-09340; NP5.02-1TU5P-0716

Gebbie, G.

Controllability, not chaos, key criterion for ocean state estimation

XY0717; EGU2007-A-08813; NP5.02-1TU5P-0717

Tarasov, Lev; Neal, R.;; Peltier, W. R.

Bayesian calibration of earth systems models

XY0718; EGU2007-A-07311; NP5.02-1TU5P-0718

Du, H.; Smith, L.A.

Data assimilation: using Indistinguishable States to solve Berliner's problem of chaotic likelihoods

XY0719; EGU2007-A-09341; NP5.02-1TU5P-0719

Broecker, J.; Smith, L. A.

From Ensembles to Predictive Distribution Functions

NP5.05 Ensemble prediction in hydrology (HEPEX) (co-listed in HS & NH) – Posters

Convener: Balint, G.

Co-Convener(s): Thielen, J.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0720; EGU2007-A-08208; NP5.05-1TU5P-0720

Bogner, K; Thielen, J; de Roo, A

Evaluation of an ensemble based early warning flood forecasting system for the Upper Danube catchment

XY0721; EGU2007-A-04845; NP5.05-1TU5P-0721

Kuchment, L; Gelfan, A; Demidov, V

Long-term ensemble forecasting of spring/summer flood characteristics

XY0722; EGU2007-A-04308; NP5.05-1TU5P-0722

Bormann, H.

How many models should be used for multi-model ensembles in catchment hydrology?

XY0723; EGU2007-A-08177; NP5.05-1TU5P-0723

Ebert, C.; Bárdossy, A.;; Bliefernicht, J.

Selecting members of an EPS for flood forecasting systems by using atmospheric circulation patterns

XY0724; EGU2007-A-10747; NP5.05-1TU5P-0724

Dietrich, J.; Voß, F.;; Wang, Y.;; Schumann, A.;; Trepte, S.

Operational flood risk management based on ensemble predictions – Mulde case study

XY0725; EGU2007-A-04807; NP5.05-1TU5P-0725

Diomedé, T.;; Marsigli, C.;; Montani, A.;; Paccagnella, T.

Discharge ensemble forecasts based on the COSMO-LEPS quantitative precipitation forecasts

NP6.01 Transport, Diffusion and Mixing in Geophysical flows

Convener: Lopez, C.

Co-Convener(s): Tampieri, F., Károlyi, G.

Lecture Room 22

Chairperson: LOPEZ, C.

8:30–8:45; EGU2007-A-07807; NP6.01-1TU10-001

Bourgoin, M.; Ouellette, N.;; Xu, H.;; Berg, J.;; Bodenschatz, E.

Pair Dispersion in Turbulence

8:45–9:00; EGU2007-A-00248; NP6.01-1TU10-002

Hernandez-Garcia, E.

Transport dynamics in the Western Mediterranean: Stretching fields and hyperbolic lines (solicited)

9:00–9:15; EGU2007-A-05110; NP6.01-1TU1O-003

Ide, K.; Wiggins, S.

A method for the estimation and analysis of transport process based on a spatio-temporal scale interaction

9:15–9:30; EGU2007-A-00481; NP6.01-1TU1O-004

Pattantyus-Abraham, M.; Jozsa, J.; Kramer, T.; Tel, T.

On the chaotic properties of shallow lakes

9:30–9:45; EGU2007-A-09533; NP6.01-1TU1O-005

Sandulescu, M.; Lopez, C.; Hernandez-Garcia, E.; **Feudel, U.**

Biological activity in the wake of an island close to a coastal upwelling

9:45–10:00; EGU2007-A-00258; NP6.01-1TU1O-006

Tzella, A.; Haynes, P.

Small-scale spatial structure in plankton distributions: Introducing a maturation time into the biology.

10:00 END OF SESSION

NP6.02 Nonlinear Waves, Instabilities and Wave-flow interactions (co-listed in OS)

Convener: Rey, V.

Co-Convener(s): Ostrovsky, L.

Lecture Room 22

Chairperson: REY V.

10:30–10:45; EGU2007-A-01093; NP6.02-1TU2O-001

Grimshaw, R.; El, G.; Kamchatnov, A.

Undular bore on a slope

10:45–11:00; EGU2007-A-05457; NP6.02-1TU2O-002

Shrira, V.I.

When "deep water" is not deep enough for wind waves?

11:00–11:15; EGU2007-A-02640; NP6.02-1TU2O-003

Scherer, E.; Zeitlin, V.

Nonlinear geostrophic adjustment of a front over an escarpment

11:15–11:30; EGU2007-A-00265; NP6.02-1TU2O-004

Wordsworth, R. D.

Wave-kinetic description of planetary wave interaction with a zonal jet

11:30–11:45; EGU2007-A-07924; NP6.02-1TU2O-005

Brovchenko, I.; Gorodetska, N.; Hutter, K.; Maderich, V.; Nikishov, V.; Terletska, K.

Laboratory and numerical study of interaction of large amplitude internal solitary waves with local obstacle, narrows and steep slopes

11:45–12:00; EGU2007-A-10630; NP6.02-1TU2O-006

Martinez, J. A.

Mixing in the Gulf of California

12:00 END OF SESSION

NP6.03 Jets, Wakes and Vortices

Convener: Montabone, L.

Co-Convener(s): Chashechkin, Y., Redondo, J.

Lecture Room 22

Chairperson: REDONDO J.M.

13:30–13:45; EGU2007-A-05436; NP6.03-1TU3O-001

Shipton, J.; Dritschel, D. G.

Spherical shallow water turbulence: cyclone-anticyclone asymmetry, potential vorticity homogenization and jet formation.

13:45–14:00; EGU2007-A-05709; NP6.03-1TU3O-002

Sekula, E.; Redondo, J.M.

The Structure of Turbulent Jets

14:00–14:15; EGU2007-A-05088; NP6.03-1TU3O-003

Kizner, Z.

Stability and transitions of hetonic quartets and baroclinic modons (solicited)

14:15 END OF SESSION

NP6.04 Geophysical Laboratory and Field Experiments

Convener: Dalziel, S.

Co-Convener(s): Fruh, W.

Lecture Room 22

Chairperson: DALZIEL S.

15:30–15:45; EGU2007-A-04538; NP6.04-1TU4O-001

Fowler, A.C.; **Robinson, M.**

Waves in Guinness

15:45–16:00; EGU2007-A-00334; NP6.04-1TU4O-002

Castrejon-Pita, A. A.; Read, P. L.

Synchronizing baroclinic chaos in the laboratory

16:00–16:15; EGU2007-A-11002; NP6.04-1TU4O-003

Matulka, A.M.; Mahjoub, O.B.; Sekula, E; Garcia Nieto, P.

Structure and Mixing in Jets and Plumes

16:15–16:30; EGU2007-A-04175; NP6.04-1TU4O-004

Carrillo, J. A.; Matulka, A.; Redondo, J. M.

Stratified Decaying 2D Flows: Experiments in Non-Rotating and Rotating Conditions

16:30–16:45; EGU2007-A-06401; NP6.04-1TU4O-005

Lunati, I.; Or, D.

Interplay of gravity, capillary and viscous forces on fluid volumes moving through a fracture

16:45–17:00; EGU2007-A-05213; NP6.04-1TU4O-006

Kovalevsky, V.

Modeling of the active vibroseismic monitoring of the lithosphere

17:00 END OF SESSION

NP6.04 Geophysical Laboratory and Field Experiments – Posters

Convener: Dalziel, S.

Co-Convener(s): Fruh, W.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0726; EGU2007-A-00263; NP6.04-1TU3P-0726

Wordsworth, R. D.; Read, P. L.; Yamazaki, Y. H.

Experimental study of planetary-scale turbulence and zonal jet formation

XY0727; EGU2007-A-05186; NP6.04-1TU3P-0727

von Larcher, Th.; Egbers, C.

Experiments on baroclinic instability in a differentially heated rotating annulus

XY0728; EGU2007-A-11649; NP6.04-1TU3P-0728

Beltrame, P.; Chossat, P.; Egbers, C.

The (3,4) Spherical Mode Interaction in the GEOFLOW-experiment and Astrophysical Framework

XY0729; EGU2007-A-00937; NP6.04-1TU3P-0729
Bakhanov, V.V.; Bogatov, N.A.; Kazakov, V.I.; Kermarskaya, O.N.; Koposova, E.V.; Sergeev, D.A.; Vlasov, S.N.

Currents over a sphere moving at different depths and with different speeds

XY0730; EGU2007-A-02411; NP6.04-1TU3P-0730

Timar-Geng, Z.; **Henk, A.;** Wetzel, A.

Modelling the Combined Impact of Eroding Topography and Fluid Flow

XY0731; EGU2007-A-04322; NP6.04-1TU3P-0731

Platonov, A. K.; **Carrillo, J. A.;** Redondo, J. M.

Vortex Structure in the North of the Ebro Delta Shelf (NW Mediterranean Sea)

XY0732; EGU2007-A-05075; NP6.04-1TU3P-0732

Ghazavi, K.; Nahavandchi, H.; The OCTAS Team

OCTAS with a focus on the importance of a high precision mean sea surface (solicited)

XY0733; EGU2007-A-05063; NP6.04-1TU3P-0733

Ghazavi, K.; Nahavandchi, H.; The OCTAS Team

The OCTAS06-North Atlantic/Arctic ocean mean sea surface model

XY0734; EGU2007-A-04350; NP6.04-1TU3P-0734

Melachroinos, S. A.; Biancale, R.; Sundaramoorthy, P. P.; Faillot, M.; Menard, Y.; Perosanz, F.

Absolute calibration of the Jason-1 altimeter during the cruise along the Drake passage by ship - buoy GPS measurements

XY0735; EGU2007-A-03304; NP6.04-1TU3P-0735

Buddenbaum, H.; Seeling, S.

Derivation of tree height and crown closure from airborne Lidar imagery

NP6.05 Turbulence in the Atmosphere and Ocean (co-listed in AS & OS)

Convener: Yagüe, C.

Co-Convener(s): Fraunie, P.

Lecture Room 22

Chairperson: YAGÜE, C.

17:30–17:45; EGU2007-A-04455; NP6.05-1TU5O-001

Cuxart, J.

Stable Boundary Layer Low-Level Jets: A comparative study (solicited)

17:45–18:00; EGU2007-A-09987; NP6.05-1TU5O-002

Lovejoy, S.; Tuck, A.; Hovde, S.; Schertzer, D.

Isotropic turbulence, stable layers: fact or fiction? (solicited)

18:00–18:15; EGU2007-A-05802; NP6.05-1TU5O-003

Lee, Y.H.

Heat and momentum transfer within open canopies

18:15–18:30; EGU2007-A-08426; NP6.05-1TU5O-004

Chemel, C.; Staquet, C.

Efficiency of mixing across the entrainment zone capping the convective atmospheric boundary layer

18:30–18:45; EGU2007-A-08993; NP6.05-1TU5O-005

Fiori, E.; Molini, L.; Parodi, A.; Siccardi, F.

Turbulent parameterization influence on high resolution numerical modelling of deep moist convective processes

18:45–19:00; EGU2007-A-01626; NP6.05-1TU5O-006

Zurita-Gotor, P

Evaluation of quasi-geostrophic turbulent closures in a two-layer model with barotropic structure

19:00 END OF SESSION

NP6.06 Astrophysical Turbulence and Shocks, Plasmas and High Mach Number Flows (co-listed in PS)

Convener: Haas, J.

Co-Convener(s): Redondo, J., Bouquet, S.

Lecture Room 22

Chairperson: REDONDO J.M.

14:15–14:45; EGU2007-A-11594; NP6.06-1TU3O-004

Koenig, M.; The LULI Laboratory Team

Laboratory Astrophysics Experiments At LULI Laboratory (solicited)

14:45–15:00; EGU2007-A-02905; NP6.06-1TU3O-005

Sorriso-Valvo, L.; Carbone, V.; Marino, R.; Bruno, R.; Noullez, A.

The inertial range of solar wind MHD turbulence

15:00 END OF SESSION

Ocean Sciences

OS7 High latitude changes in ocean, ice and climate (co-listed in CR & CL)

Convener: Döschner, R.

Co-Convener(s): Mauritzen, C.

Lecture Room D

Chairperson: DÖSCHER, R.

8:30–8:45; EGU2007-A-04623; OS7-1TU1O-001

ROTHROCK, D.; PERCIVAL, D; WENSNAHAN, M

Declining arctic ice thickness from 26 years of US Navy submarine cruises

8:45–9:00; EGU2007-A-06960; OS7-1TU1O-002

Shalina, E.; Sandven, S

Multi year sea ice concentration mapping using passive and active microwave sensors

9:00–9:15; EGU2007-A-05027; OS7-1TU1O-003

Koeberle, C.; Gerdes, R.

Sea ice budget evaluation in 21th century model simulations

9:15–9:30; EGU2007-A-07573; OS7-1TU1O-004

Jungclaus, J.H.; Gautam, S.R.; Koenig, T.; Haak, H.

Decadal Arctic Climate Variability and the role of oceanic and atmospheric heat transports

9:30–9:45; EGU2007-A-01927; OS7-1TU1O-005

Walczowski, W.; Piechura, J.

Northward propagation of warm signal within the West Spitsbergen Current

9:45–10:00; EGU2007-A-05072; OS7-1TU1O-006

Ivanov, V.; Dmitrenko, I.; Hansen, E.; Kirillov, S; Mauritzen, C; Polyakov, I; Simmons, H; Timokhov, L

What happens with Atlantic Water entering the Arctic Ocean through the Fram Strait?

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-05951; OS7-1TU2O-001

Maslowski, W.; Clement-Kinney, J.; Jakacki, J.; Walczowski, W.

Oceanic Forcing of Arctic Sea Ice Melt

10:45–11:00; EGU2007-A-05977; OS7-1TU2O-002

Wang, J.; Hu, H.; Mizobata, K.

Simulating ice-ocean downscaling characteristics in the Beaufort-Chukchi seas by an IARC Coupled Ice-Ocean Model (CIOM)

11:00–11:15; EGU2007-A-05546; OS7-1TU2O-003

Berline, L.; Spitz, Y.H.; Maslowski, W.; Campbell, R.G.; Ashjian, C.J.; George, J.C.

Atmospheric forcing, sea-ice, and ocean current impacts on zooplankton abundance in the western Arctic Ocean

11:15–11:30; EGU2007-A-02395; OS7-1TU2O-004

Melsheimer, C.; Vihma, T.; Heygster, G.; Colombier, V.

Detecting polar lows using total water vapour retrieved from the space-borne microwave radiometer AMSU-B

11:30–11:45; EGU2007-A-02795; OS7-1TU2O-005

Mathiot, P.; Barnier, B.; Gallée, H.; Molines, J.M.; Pen-duff, T.

Correction of katabatic winds in ERA40 and its effects on polynya and shelf water in Antarctica

11:45–12:00; EGU2007-A-05244; OS7-1TU2O-006

Price, M.R.; **Heywood, K.J.**

Ice-Shelf - Ocean Interactions at the Fimbul Ice Shelf, Antarctica from Oxygen Isotope Ratio Measurements

12:00 END OF SESSION

OS8 Variability in the Southern Ocean (co-listed AS,CL,BG,CR)

Convener: Provost, C.

Co-Convener(s): Fahrback, E.

Lecture Room D

Chairperson: PROVOST, C.

13:30–13:45; EGU2007-A-00376; OS8-1TU3O-001

Lefebvre, W.; Goosse, H.

An analysis of atmospheric processes driving the large-scale winter sea-ice variability in the Southern Ocean

13:45–14:00; EGU2007-A-04713; OS8-1TU3O-002

Chereskin, T. K.; Lenn, Y. D.; Firing, E.

Variability in surface-layer currents and acoustic backscatter observed from Drake Passage repeat ADCP observations (solicited)

14:00–14:15; EGU2007-A-04754; OS8-1TU3O-003

Lee, J.H.; Jang, S.T.; Hong, C.S.; Hwang, S.C.; Provost, C.

Observations of deep currents in the southern Drake Passage

14:15–14:30; EGU2007-A-01244; OS8-1TU3O-004

Hellmer, H. H.; Absy, J. M.; Schröder, M.

Western Weddell Sea deep water variability (solicited)

14:30–14:45; EGU2007-A-02823; OS8-1TU3O-005

Huhn, O.; Rhein, M.; Roether, W.; Hellmer, H.H.; Schod-lok, M.; Schröder, M.; Rodehacke, Chr.

Deep and bottom water formation in the western Weddell Sea – results from hydrographic and tracer observations

14:45–15:00; EGU2007-A-03533; OS8-1TU3O-006

Durgadoo, J.V.; Ansgore, I.J.; Lutjeharms, J.R.E

Modelling the efficiency of the South West Indian Ridge as a heat pump for the Southern Ocean

15:00 COFFEE BREAK

Lecture Room 5 (I)

Chairperson: FAHRBACH, E.

17:30–18:30 Award Ceremony of the Georg Wüst Preis

18:30 END OF SESSION

OS9 The Mediterranean Sea: a natural laboratory for marine interdisciplinary studies

Convener: Pinardi, N.

Co-Convener(s): Papathanassiou, V.

Lecture Room D

Chairperson: N.N.

15:30–15:45; EGU2007-A-00522; OS9-1TU4O-001

Herrmann, M.; Estournel, C.; Somot, S.; Sevault, F.

Dense water formation in the Gulf of Lion: impact of interannual variability and climate change (solicited)

15:45–16:00; EGU2007-A-00529; OS9-1TU4O-002

Abdennadher, J.; Boukthir, M.

Barotropic and baroclinic tidal energy budget in The Strait of Sicily

16:00–16:15; EGU2007-A-02144; OS9-1TU4O-003

Kholeif, S.

Organic-walled dinoflagellate cysts and sedimentary organic matter as indicators of palaeo-hydrographic changes in the marine core sediments from the southeastern Mediterranean, Egypt

16:15–16:30; EGU2007-A-02802; OS9-1TU4O-004

Malacic, V.; Petelin, B.; Malej, A.

Advection of the jellyfish *Pelagia noctiluca* (Scyphozoa) studied by the Lagrangian tracking of water mass in the climatic circulation of the Adriatic Sea

16:30–16:45; EGU2007-A-02857; OS9-1TU4O-005

Uckac, S.; Garcia-Goriz, E.; Stips, A.

Seasonal variation of Black Sea Water inflow into the North Aegean Sea

16:45–17:00; EGU2007-A-04000; OS9-1TU4O-006

Sannino, G.; Carillo, A.; Sanchez Roman, A.; Garcia Lafuente, J.; Artale, V.

Volume transports comparison between recent observations and numerical modeling simulation at the strait of Gibraltar

17:00 COFFEE BREAK

Chairperson: N.N.

17:30–17:45; EGU2007-A-05623; OS9-1TU5O-001

BOULAHID, M.; Brinis, A.; Brahmia, A.; Boudjellal, B.; Eddalia, N.

Hydrological and environmental aspects of waters of the Bou Ismail bay between the continental influence and the open sea waters.

17:45–18:00; EGU2007-A-06055; OS9-1TU5O-002

Somot, S.; Colin, J.; Sevault, F.; Déqué, M.; Rixen, M.

Modelling the Mediterranean sea over the last 40 years using high resolution dynamical downscaling of the ERA40 reanalysis

18:00–18:15; EGU2007-A-08358; OS9-1TU5O-003

Zavatarelli, M.; Polimene, L.; Butenschoen, M.; Vichi, M.

Adriatic Sea: dense water formation and biogeochemical cycles

18:15–18:30; EGU2007-A-10004; OS9-1TU5O-004

BOUFFARD, J.; Hermann, M.; Vignudelli, S.

Marsaleix, P.; Birol, F.; Lyard, F.; Ménard, Y.; Cipollini, P. Improved satellite altimetric data dedicated to coastal areas: applications over the Northwestern Mediterranean

18:30–18:45; EGU2007-A-10115; OS9-1TU50-005

Gana, S.; Sammari, H.

Variability of the AW vein branching, in the Central Mediterranean, estimated by altimetric data.

18:45–19:00; EGU2007-A-10678; OS9-1TU50-006

Book, J.; Martin, P.; Janekovic, I.; Kuzmic, M.

Frictional bottom boundary layers for tides: observations, theory, and modeling from the northern Adriatic

19:00 END OF SESSION

Planetary and Solar System Sciences

PS1.4 Experimental Planetology - Space simulations in laboratory – Posters

Convener: Colangeli, L.

Co-Convener(s): Sears, D., Seiferlin, K.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0736; EGU2007-A-03406; PS1.4-1TU3P-0736

Beranek, M.; **Jerab, M.;** Pavlu, J.; Safrankova, J.; Nemecek, Z.

Experiment for the investigation of photoemission from dust grains

XY0737; EGU2007-A-03830; PS1.4-1TU3P-0737

Pavlov, A. K.; Shelegedin, V. N.; Gontareva, N. B.; Simakov, M. B.; Kogan, V. T.; Zhukov, B. G.; Kurakin, R. O.; Rozov, S. I.; Vdovina, M. A.; Tretyakov, A. V.

High speed impact experiment for studying of survivability of microorganisms and synthesis of complex organic molecules under low temperature

XY0738; EGU2007-A-04127; PS1.4-1TU3P-0738

Pavlu, J.; Richterova, I.; Safrankova, J.; Nemecek, Z.

Experimental observation of dust grains sputtering

XY0739; EGU2007-A-05403; PS1.4-1TU3P-0739

Yih, T. S.; Chen, Y.-J.; Nuevo, M.; Shieh, J.-M.; Ip, W.-H.; Fung, H.-S.; Chiang, S.-Y.; Lee, Y.-Y.; Chen, J.-M.; Wu, C.-Y.

Carbamic acid produced by UV/EUV photon irradiation of interstellar ice analogues

PS2.0 Open Session on Terrestrial Planets – Posters

Convener: Ziethe, R.

Co-Convener(s): Benkhoff, J.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 08:30–10:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0740; EGU2007-A-05417; PS2.0-1TU1P-0740

Saito, Y.; Sauvaud, J. A.; Hirahara, M.; Barabash, S.; Delcourt, D.; Coates, A.; Takashima, T.; Asamura, K. Mercury Plasma/Particle Experiment (MPPE) onboard BepiColombo/MMO

XY0741; EGU2007-A-08388; PS2.0-1TU1P-0741

Mangano, V.; Mura, A.; Milillo, A.; Orsini, S.; Massetti, S.; Cremonese, G.; Barbieri, C.

Mercury's exosphere: Na simulations and observations, a case study

XY0742; EGU2007-A-08319; PS2.0-1TU1P-0742

Kameda, S.; Kagitani, M.; Ono, J.; Yoshikawa, I.; Okano, S. Imaging of the exospheric sodium tail on Mercury using a Fabry-Perot Interferometer

XY0743; EGU2007-A-11377; PS2.0-1TU1P-0743

Takashima, T.; Kasaba, Y.

Design of Mission Data Processor (MDP) aboard Bepi-Colombo/MMO: The physical basis of the MMO Science Operation Plan

XY0744; EGU2007-A-11379; PS2.0-1TU1P-0744

Hayakawa, H.; AXA/BepiColombo Project

JAXA/BepiColombo Project: Current Status of the Mercury Magnetospheric Orbiter

XY0745; EGU2007-A-01353; PS2.0-1TU1P-0745

Echer, E.; Guarnieri, F. L.

Mercury's magnetosheath fluctuations studied with wavelet analysis

XY0746; EGU2007-A-03526; PS2.0-1TU1P-0746

Borin, P.; Cremonese, G.; Marzari, F.

Flux of micrometeoroids on Mercury

XY0747; EGU2007-A-03671; PS2.0-1TU1P-0747

Capria, M.T.

Mercury surface and subsurface temperature distribution

XY0748; EGU2007-A-06044; PS2.0-1TU1P-0748

Koch, C.; Christensen, U.R.; Hilchenbach, M.; Kallenbach, R.

Extraction of time-dependent topography variations from BepiColombo laser altimeter data

XY0749; EGU2007-A-10409; PS2.0-1TU1P-0749

Van Hoolst, T.; Rivoldini, A.; Verhoeven, O.; Vacher, P.; Mocquet, A.; Dehant, V.

Mercury's interior structure

XY0750; EGU2007-A-05916; PS2.0-1TU1P-0750

Wang, W.-J.; Shen, W.B.

The free-core-nutation of triaxial Earth

XY0751; EGU2007-A-06975; PS2.0-1TU1P-0751

Harada, Y.

Possible planetary inertial interchange due to visco-elastic deformation: implication to true polar wander on Mars with Tharsis

XY0752; EGU2007-A-07890; PS2.0-1TU1P-0752

Balland, R.-M.; Lainey, V.; Rosenblatt, P.; Dehant, V.

Consideration of Europa's icy shell thickness from the observation of its orbital motion

XY0753; EGU2007-A-09754; PS2.0-1TU1P-0753

Luetke, S.; **Deutsch, A.;** Kreher-Hartmann, B.; Berndt, J.

Lake Bosumtwi impact crater: compositional peculiarities of fallback particles in ICDP core LB-05

XY0754; EGU2007-A-09311; PS2.0-1TU1P-0754

Deguen, R.; Alboussière, T.; Brito, D.

Dendritic core crystallization of iron meteorites parent bodies

XY0755; EGU2007-A-01938; PS2.0-1TU1P-0755

Ziethe, R.; Nyffenegger, O.; Benz, W.

On the Differentiation and Formation Timescales of Terrestrial Planets

XY0756; EGU2007-A-05022; PS2.0-1TU1P-0756

Ziethe, R.; Hiesinger, H.

The Duration and Extent of Lunar Volcanism

XY0757; EGU2007-A-01195; PS2.0-1TU1P-0757

Seiferlin, K.; Ziethe, R.

Is the Earth's Moon a planet?

XY0758; EGU2007-A-00946; PS2.0-1TU1P-0758
Kitiashvili, I.
 Definition of planets from the point of view of celestial mechanics
XY0759; EGU2007-A-10156; PS2.0-1TU1P-0759
Sykes, M.
 A Geophysical Definition for "Planet"

PS2.1 Venus Express: one year in orbit

Convener: Titov, D.
 Co-Convener(s): Svedhem, H.
 Lecture Room 15 (F2)
 Chairperson: N.N.

13:30–13:45; EGU2007-A-01527; PS2.1-1TU3O-001
Taylor, FW

Venus: Comparative Planetology (Invited) (solicited)

13:45–14:00; EGU2007-A-11595; PS2.1-1TU3O-002
Svedhem, H.; Titov, D.; Barabash, S.; Bertaux, J.-L.; Drossart, P.; Formisano, V.; Häusler, B.; Markiewicz, W.; Piccioni, G.; Zhang, T.; Witasse O.
 Venus Express – One Year in Orbit (solicited)

14:00–14:15; EGU2007-A-11286; PS2.1-1TU3O-003
Titov, D.V.; Svedhem, H.; Taylor, F.W.; Barabash, S.; Bertaux, J.-L.; Drossart, P.; Formisano, V.; Häusler, B.; Markiewicz, W.J.; Paetzold, M.; THE VEX TEAM
 Highlights of the first year of the Venus Express observations (solicited)

14:15–14:30; EGU2007-A-11283; PS2.1-1TU3O-004
Bertaux, J.L.; Korablev, O.; Villard, E.; Nevejans, D.; Neefs, E.; Fedorova, A.; Montmessin, F.; Rannou, P.; Quemerais, E.; Vandaele, A.C.; SPICAV/SOIR TEAM
 SPICAV/SOIR investigation of the upper atmosphere of Venus (solicited)

14:30–14:45; EGU2007-A-09742; PS2.1-1TU3O-005
Fedorova, A.; Korablev, O.; Bertaux, J.-L.; Belyaev, D.; Villard, E.; Nevejans, D.; Vandaele, A.-C.; Neefs, E.; Wilquet, V.
 The Venus upper haze from SPICAV/SOIR infrared experiments on Venus-Express

14:45–15:15; EGU2007-A-09176; PS2.1-1TU3O-006
Piccioni, G.; Drossart, P.; VIRTIS-Venus Express Team
 Observations of Venus by VIRTIS on Venus Express (solicited)

15:15 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-08063; PS2.1-1TU4O-001
Yung, Y.; Liang, M.; Jiang, X.; Lee, C.; Bezaud, B.
 Photochemistry and Transport of CO and OCS in the Middle Atmosphere of Venus

15:45–16:00; EGU2007-A-03234; PS2.1-1TU4O-002
Gérard, J.C.; Cox, C.; Saglam, A.; Bertaux, J.L.; Drossart, P.; Piccioni, G.
 Venus Express observations of the Venus O₂ and NO nightglow: vertical distribution and constraints on vertical transport

16:00–16:15; EGU2007-A-08270; PS2.1-1TU4O-003
Markiewicz, W.J.; Titov, D.; Moissl, R.; Ignatiev, N.; Russo, P.; Limaye, S.; Jaumann, R.; Thomas, N.; Keller, H.U.
 Morphology and dynamics of the Venus upper cloud layer (solicited)

16:15–16:30; EGU2007-A-08560; PS2.1-1TU4O-004
Sanchez-Lavega, A.; Hueso, R.; Luz, D.; Piccioni, G.; Drossart, P.; Wilson, C.; Lebonnois, S.
 Morphology and wind measurements at the lower cloud of Venus using VIRTIS-VEX images

16:30–16:45; EGU2007-A-09362; PS2.1-1TU4O-005
Häusler, B.; Pätzold, M.; Tyler, G.L.; Tellmann, S.; Mattei, R.; Bird, M.K.
 The Structure of the Venus neutral atmosphere from the Radio Science Experiment VeRa

16:45–17:00; EGU2007-A-07445; PS2.1-1TU4O-006
Pätzold, M.; Häusler, B.; Tyler, G.L.; Tellmann, S.; Mattei, R.; Bird, M.K.
 The structure of the Venus ionosphere

17:00–17:15; EGU2007-A-04484; PS2.1-1TU4O-007
Barabash, S.; Sauvaud, J.-A.; THE ASPERA-4 TEAM
 First results of the ASPERA-4 experiment onboard Venus Express (solicited)

17:15 COFFEE BREAK

Chairperson: N.N.

17:30–17:45; EGU2007-A-06700; PS2.1-1TU5O-001
Lundin, R.; Barabash, S.; Sauvaud, J.-A.; Fedorov, A.; The ASPERA-4 Team
 Venus Plasma Boundaries and Ionospheric Plasma Escape

17:45–18:00; EGU2007-A-09903; PS2.1-1TU5O-002
Zhang, T. L.; THE MAG TEAM
 Solar wind interaction with Venus at solar minimum: Venus Express magnetic field observations (solicited)

18:00–18:15; EGU2007-A-04651; PS2.1-1TU5O-003
Russell, C. T.; Zhang, T. L.; Delva, M.; Strangeway, R. J.; Wei, H. Y.
 Whistler mode waves in the Venus ionosphere indicative of lightning

18:15–18:30; EGU2007-A-08803; PS2.1-1TU5O-004
Mueller, N.; Helbert, J.; Marinangeli, L.; Piccioni, G.; Drossart, P.; Hashimoto, G.; The VIRTIS-VEX Team
 Preliminary Interpretation of Surface Observations with VIRTIS on Venus Express

18:30–18:45; EGU2007-A-10326; PS2.1-1TU5O-005
Simpson, R.; Tyler, G. L.; Häusler, B.; Paetzold, M.
 Venus Express bistatic radar at Maxwell Montes

18:45–19:00; EGU2007-A-09997; PS2.1-1TU5O-006
Wilson, C.; Chassefière, E.; Aplin, K.; Ferencz, C.; Imamura, T.; Korablev, O.; Leitner, J.; Lopez-Moreno, J.; Titov, D.; Witasse, O.
 The Venus Entry Probe mission proposal (solicited)

19:00 END OF SESSION

PS2.1 Venus Express: one year in orbit – Posters

Convener: Titov, D.
 Co-Convener(s): Svedhem, H.
 Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 10:30–12:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0760; EGU2007-A-06024; PS2.1-1TU2P-0760
Mahieux, A.; Vandaele, A.C.; Korablev, O.; Bertaux, J.-L.; The SPICAV/SOIR Team
 One year of Observations of SPICAV/SOIR on Board Venus Express

XY0761; EGU2007-A-11291; PS2.1-1TU2P-0761

Russo, P.; Titov, D.V.; Markiewicz, W.J.; Moissl, R.; Roatsch, T.; Belyaev, D.; Ignatiev, N.; Keller, H.U.; Crisp, D.; Blum, J.

First results of investigation of the Venus upper haze by Venus Monitoring Camera onboard Venus Express (solicited)

XY0762; EGU2007-A-03359; PS2.1-1TU2P-0762

Grassi, D.; Drossart, P.; Piccioni, G.; Irwin, P.; Ignatiev, N.I.; Zasova, L.V.; Adriani, A.; Moriconi, M.

Validation of air temperature retrieval techniques applied to VIRTIS-M data

XY0763; EGU2007-A-01666; PS2.1-1TU2P-0763

Marcq, E.; Bézard, B.; Drossart, P.

Analysis of VIRTIS-H nightside spectra in the 2.3- μ m window (solicited)

XY0764; EGU2007-A-04980; PS2.1-1TU2P-0764

Rodin, A.V.; Afanasenko, T.S.; Ignatiev, N.I.; Drossart, P.; Piccioni, G.; the VIRTIS team

Impact of far wing model on the retrievals of thermal and aerosol profiles from VIRTIS observations of Venus nightside (solicited)

XY0765; EGU2007-A-08880; PS2.1-1TU2P-0765

Hueso, R.; Sanchez-Lavega, A.; Zasova, L.; Khatuntsev, I.; Drossart, P.; Piccioni, G.; Lebonnois, S.

Morphology and apparent motions of oxygen airglow features in Venus viewed by VIRTIS-VEX. (solicited)

XY0766; EGU2007-A-08394; PS2.1-1TU2P-0766

Zasova, L. V.; Drossart, P.; Piccioni, G.; Shakun, A.; THE VIRTIS-Venus Express TEAM

O₂ emission on the night side of Venus from limb observation of VIRTIS –M VEX; upper boundary of the clouds (solicited)

XY0767; EGU2007-A-05768; PS2.1-1TU2P-0767

Ohtsuki, S.; Iwagami, N.; Sagawa, H.; Ueno, M.; Kasaba, Y.; Imamura, T.; Nishihara, E.

Ground-based observations of the Venus 1.27-micron O₂ airglow and rotational temperature

XY0768; EGU2007-A-11284; PS2.1-1TU2P-0768

Moissl, R.; Markiewicz, W.J.; Titov, D.V.; Limaye, S.S.; Russo, P.; Keller, H.U.; Ignatiev, N.I.

First cloud-tracked winds from the Venus Express VMC images (solicited)

XY0769; EGU2007-A-09237; PS2.1-1TU2P-0769

Young, E.; Bullock, M.; Raffkin, S.; Coyote, S.; Tavenner, T.; Limaye, S.

Zonal winds in venus's lower and middle cloud deck from IRTF observations (solicited)

XY0770; EGU2007-A-09723; PS2.1-1TU2P-0770

Widemann, T.; Lellouch, E.; Luz, D.; Moreno, R.

Ground-Based Multiwavelength Direct Wind Measurements in Support of Venus Express (solicited)

XY0771; EGU2007-A-07109; PS2.1-1TU2P-0771

Sornig, M.; Sonnabend, G.; Krötz, P.; Stupar, D.; Schieder, R.

Ground based high spatial resolution mapping of Venus dynamics in the upper atmosphere by IR heterodyne spectroscopy

XY0772; EGU2007-A-11290; PS2.1-1TU2P-0772

Titov, D.V.; Piccioni, G.; Markiewicz, W.J.; Drossart, P.; Ignatiev, N.; Taylor, F.W.; Manoel, N.; Wilson, C.; Hueso, R.; Sanchez-Lavega, A.; THE VEX TEAM

Merging the UV and thermal-IR views of Venus from the Venus Express observations (solicited)

XY0773; EGU2007-A-08838; PS2.1-1TU2P-0773

Mitsuyama, K.; Imamura, T.; Sagawa, H.; Ohtsuki, S.; Ueno, M.; Kasaba, Y.; Nakamura, M.

Ground-based mid-infrared observation of microstructures at the Venus cloud-top level (solicited)

XY0774; EGU2007-A-09262; PS2.1-1TU2P-0774

Limaye, S.S.; Kossin, J.

Vortex Circulation on Venus (solicited)

XY0775; EGU2007-A-10094; PS2.1-1TU2P-0775

Titov, D.V.; Ignatiev, N.; Markiewicz, W.J.; Piccioni, G.; Drossart, P.; Russo, P.; Hueso, R.; Sanchez-Lavega, A.

Altimetry of the Venus cloud tops derived from the Venus Express observations (solicited)

XY0776; EGU2007-A-00152; PS2.1-1TU2P-0776

Gubenko, V.N.; Andreev, V.E.; Pavelyev, A.G.

The detection of inner layering in the upper cloud layer of Venus northern polar atmosphere observed from radio occultation data. (solicited)

XY0777; EGU2007-A-03076; PS2.1-1TU2P-0777

Grebowsky, J.; Hoegy, W.; Hartle, R.

Venus' nightside low altitude ionosphere – a new examination of Pioneer Venus Orbiter data (solicited)

XY0778; EGU2007-A-03204; PS2.1-1TU2P-0778

Delva, M.; **Volwerk, M.;** Zhang, T.L.; Russell, C.T.; Wei, H.Y.

Ion cyclotron waves near Venus (solicited)

XY0779; EGU2007-A-08966; PS2.1-1TU2P-0779

Pope, S.; Balikhin, M.; Zhang, T.; Delva, M.; Alleyne, H

Fine structure of plasma turbulence in the vicinity of the Venusan bow shock (solicited)

XY0780; EGU2007-A-09051; PS2.1-1TU2P-0780

Pope, S.; Zhang, T.; Balikhin, M.; Delva, M.; Hvizdo, L.; Kudela, K.; Alleyne, H

Identification and removal of spacecraft generated magnetic fields from Venus Express magnetic field data

XY0781; EGU2007-A-06852; PS2.1-1TU2P-0781

Erard, S.; Drossart, P.; Piccioni, G.; Virtis/Venus-Express team, .

Multivariate analysis of Virtis/Venus-Express observations

XY0782; EGU2007-A-07972; PS2.1-1TU2P-0782

Arnold, G.; Döhler, W.; Haus, R.; Kappel, D.; Drossart, P.; Piccioni, G.; VIRTIS Team

Estimation of a quantitative approach for Venus surface data extraction from VIRTIS measurements using topographical variations (solicited)

XY0783; EGU2007-A-04413; PS2.1-1TU2P-0783

Barthelemy, M.; Zender, J.; Heather, D.; Vazquez, J.L.; Wirth, K.; Witasse, O.; Manaud, N.; Ortiz, I.; Dowson, J.; Arviset, C.

The Venus Express data distribution via the Planetary Science Archive

PS2.2 Recent Mars Science – Posters

Convener: Chicarro, A.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0784; EGU2007-A-06770; PS2.2-1TU2P-0784

Zhang, Z.; Hagfors, T.; Nielsen, E.

Dielectric Properties of North Polar Layered Deposits of Mars from the MARSIS Data Inversion

XY0785; EGU2007-A-08164; PS2.2-1TU2P-0785
Giuranna, M.; Grassi, D.; Zasova, L.; Formisano, V.; Maturilli, A.; Ignatiev, N.
 The condensing CO₂ Martian south polar cap

XY0786; EGU2007-A-01775; PS2.2-1TU2P-0786
de Pablo, M.A.; Komatsu, G.
 A smoke-like phenomenon observed in Elysium Planitia, Mars.

XY0787; EGU2007-A-02266; PS2.2-1TU2P-0787
de Pablo, M.A.; Pacifici, A.
 Geomorphologic evidences of water level changes on Nepenthes Mensae, Mars.

XY0788; EGU2007-A-02660; PS2.2-1TU2P-0788
de Pablo, M.A.; Bruno, B.C.
 Groups and clusters of circular features on Elysium Planitia, Mars: pingos or pseudocraters?

XY0789; EGU2007-A-09606; PS2.2-1TU2P-0789
Evdokimova, N.A.; Rodin, A.V.; Fedorova, A.A.; Kuzmin, R.O.; Korablev, O.I.; Bibring, J.-P.; OMEGA Team
 Wave activity in the circumpolar water cycle during the MY27 aphelion season inferred from Mars Express/OMEGA data

XY0790; EGU2007-A-09791; PS2.2-1TU2P-0790
Plettmeier, D.; Edenhofer, P.; Herique, A.; Kofman, W.; Orosei, R.; Picardi, G.; Plaut, J.; Safaeinili, A.; Seu, R.
 Analysis of Radar echoes from electrically thin multi-layered subsurface structures

XY0791; EGU2007-A-08195; PS2.2-1TU2P-0791
Grossi, M.; Formisano, V.; Lopez-Valverde, M.A.; Giuranna, M.; Gilli, G.
 A statistical study of CO₂ non-LTE emission at 4.3 μ m in the atmosphere of Mars with PFS limb observations

XY0792; EGU2007-A-04758; PS2.2-1TU2P-0792
Azuma, N.; Ohba, Y.; Maeda, T.; Ishii, T.
 Mechanical properties of dust and ice mixtures expected in the Martian polar caps and permafrost.

XY0793; EGU2007-A-00789; PS2.2-1TU2P-0793
Jian, J. J.; Ip, W. H.
 The Spatial Distribution and Seasonal Evolution of Cryptic Region

XY0794; EGU2007-A-08411; PS2.2-1TU2P-0794
Dreibus, G.; Brückner, J.; Gellert, R.; Jagoutz, E.; Klingelhöfer, G.; Schmidt, M.E.
 Ultramafic Rocks at Gusev Crater, Mars, and their Relationship to Martian Meteorites.

XY0795; EGU2007-A-01725; PS2.2-1TU2P-0795
Kochemasov, G.
 Zeolite-rich spreustains after alkaline rocks or smectites of unknown origin find the martian rover Spirit and OMEGA, HRSC instruments of Mars Express?

XY0796; EGU2007-A-01765; PS2.2-1TU2P-0796
de Pablo, M.A.; Pacifici, A.
 Geomorphological evidences of cryoturbation on Nepenthes Mensae, Mars.

XY0797; EGU2007-A-07593; PS2.2-1TU2P-0797
Michael, G.; Neukum, G.
 Refinement of cratering model age for the case of partial resurfacing

XY0798; EGU2007-A-06873; PS2.2-1TU2P-0798
Fels, M.; Pätzold, M.; Häusler, B.
 The Martian lithosphere in the Tharsis region: A comparison between Mars-Express gravity data and the MOLA topography model from Mars Global Surveyor at small wavelength

XY0799; EGU2007-A-07796; PS2.2-1TU2P-0799
Martín-González, F.; de Pablo, M.A.; Pacifici, A.
 Alignments mapping and structural analysis of western sector of Nepehntes Mensae, Mars.

XY0800; EGU2007-A-04682; PS2.2-1TU2P-0800
Morgan, D.; Gurnett, D.; Kopf, A.; Kirchner, D.; Huff, R.; Nielsen, E.; Plaut, J.; Picardi, G.
 MARSIS Active Ionospheric Sounding: a survey of electron density profile results

XY0801; EGU2007-A-05430; PS2.2-1TU2P-0801
Kopf, A.J.; Gurnett, D.A.; Kirchner, D.L.; Morgan, D.D.; Averkamp, T.F.
 Detection of an upper layer in the topside ionosphere of Mars using the Mars Express ionospheric sounder

XY0802; EGU2007-A-06816; PS2.2-1TU2P-0802
Saiger, P.; Preusker, F.; Waehlich, M.; Asche, H.; Oberst, J.; Jaumann, R.; Neukum, G.
 Analysis of Mars data using ArcOBJECTS, ModelBuilder and MySQL

XY0803; EGU2007-A-07559; PS2.2-1TU2P-0803
Michael, G.; Walter, S.; Neukum, G.
 HRSCview: A web-based data exploration system for Mars Express HRSC

XY0804; EGU2007-A-04587; PS2.2-1TU2P-0804
Chaufray, J.Y.; Quémerais, E.; Bertaux, J.L.; Leblanc, F.
 Study of the 130.4 nm oxygen line at Mars from SPICAM on Mars Express

XY0805; EGU2007-A-05150; PS2.2-1TU2P-0805
Thomas, N.; Bell, J.F.; Grant, J.; Herkenhoff, K.; McEwen, A.S.; Russell, P.; THE HIRISE TEAM
 HiRISE photometric observations of the Opportunity landing site and Mawrth Vallis.

XY0806; EGU2007-A-02229; PS2.2-1TU2P-0806
Kanao, M.; Futaana, Y.; Fedorov, A.; Abe, T.; Barabash, S.; Yamauchi, M.; Nakamura, M.; Aspera-3 Team
 On the relationship between the Martian induced magnetosphere boundary and the solar wind

XY0807; EGU2007-A-04617; PS2.2-1TU2P-0807
Kirchner, D.L.; Gurnett, D.A.; Winningham, J.D.; Safaeinili, A.; Plaut, J.J.; Picardi, G.
 Auroral ionization patches on the nightside of Mars

XY0808; EGU2007-A-04632; PS2.2-1TU2P-0808
Duru, F.; Gurnett, D.A.; Morgan, D.D.; Plaut, J.J.; Picardi, G.
 Electron densities in the ionosphere of Mars from the frequency of electron plasma oscillations detected by Mars Express

XY0809; EGU2007-A-09435; PS2.2-1TU2P-0809
Withers, P.; Pätzold, M.; Mendillo, M.; Tellmann, S.; Häusler, B.; Hinson, D.; Tyler, G. L.
 New observations of the topside ionosphere at Mars

XY0810; EGU2007-A-05475; PS2.2-1TU2P-0810
Leer, K.; Britt, D.; Djernis-Olsen, L.; Drube, L.; Lemmon, M.; Madsen, M.B.; Olsen, M.
 Magnetic properties experiments onboard the Phoenix 2007 Mars Lander

PS4 Small Bodies and Dust

Convener: Krueger, H.
 Co-Convener(s): Schwehm, G., Müller, T.
 Lecture Room 8
 Chairperson: N.N.

8:30–9:00; EGU2007-A-05455; PS4-1TU1O-001
Yoshikawa, M.; Fujiwara, A.; Kawaguchi, J.
 Results on asteroid Itokawa from the Hayabusha mission (solicited)

9:00–9:15; EGU2007-A-08092; PS4-1TU1O-002
Sasaki, S.; Ishiguro, M.; Hirata, N.; Hiroi, T.; Abe, M.; Abe, S.; Miyamoto, H.; Saito, J.
 Albedo/color heterogeneity on the surface of rubble pile asteroid Itokawa: evidence for the space weathering

9:15–9:45; EGU2007-A-00252; PS4-1TU1O-003
Broz, M.; Vokrouhlicky, D.; Capek, D.; Bottke, W.F.; Nesvorny, D.; Morbidelli, A.
 The thermal forces and torques changing the orbits and spins of small asteroids (solicited)

9:45–10:00; EGU2007-A-10650; PS4-1TU1O-004
Raymond, C. A.; Russell, C. T.; Dawn Science Team
 Dawn mission status report

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–11:00; EGU2007-A-08489; PS4-1TU2O-001
A'Hearn, M.
 Deep Impact (solicited)

11:00–11:15; EGU2007-A-02150; PS4-1TU2O-002
De Sanctis, M.C.; Capria, M.T.; Coradini, A.; Ammannito, E.
 Models of 9P/Tempel 1 target of Deep Impact mission.

11:15–11:30; EGU2007-A-06949; PS4-1TU2O-003
Mäkinen, J.T.T.; Combi, M.R.; Bertaux, J.L.; Quemerais, E.
 Comet 73P/Schwassmann-Wachmann as seen by SWAN

11:30–12:00; EGU2007-A-09165; PS4-1TU2O-004
Srama, R.; Kempf, S.; Moragas-Klostermeyer, G.; Beckmann, U.; Postberg, F.; Economou, T.; Helfert, S.; Altobelli, N.; Gruen, E.
 In-situ dust measurements with Cassini - Eight years of experience with the Cosmic Dust Analyser (solicited)

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–14:00; EGU2007-A-02235; PS4-1TU3O-001
Kaasalainen, M.
 Imaging the invisible solar system: inverse problems of asteroid photometry (solicited)

14:00–14:15; EGU2007-A-06779; PS4-1TU3O-002
Ammannito, E.; Coradini, A.; De Sanctis, M. C.; Garoli, D.; Naletto, G.; Pelizzo, M. G.; Russell, C. T.
 UV-VIS-NIR reflectance spectroscopy of Vesta analogs: the case of Millbillillie.

14:15–14:30; EGU2007-A-02522; PS4-1TU3O-003
Merlin, F.; Guilbert, A.; Dumas, C.; Barucci, M.A.; de Bergh, C.; Vernazza, P.
 Properties and temperature determination of the icy surface of the TNO 136108 (2003 EL61)

14:30–14:45; EGU2007-A-06404; PS4-1TU3O-004
Coradini, A.; Capria, M.T.; De Sanctis, M.C.
 Thermal evolution of outer solar system minor bodies

14:45–15:00; EGU2007-A-09731; PS4-1TU3O-005
Murray, J.B.
 New interpretation of the clustering of long-period comet aphelion distances

15:00 END OF SESSION

PS5 Planetary Plasma Physics

Convener: Kallio, E.
 Co-Convener(s): Bertucci, C.
 Lecture Room 11
 Chairperson: N.N.

8:30–8:45; EGU2007-A-09845; PS5-1TU1O-001
Sauvaud, J.-A.; Barabash, S.; Zhang, T. L.; Ferrier, C.; Fedorov, A.; Mazelle, C.; Lundin, R.
 VEX insight on the Boundary Separating Solar and Venusian plasmas

8:45–9:00; EGU2007-A-03898; PS5-1TU1O-002
Fedorov, A.; Ferrier, C.; Barabash, S.; Zhang, T.; Sauvaud, J.-A.; Mazelle, C.
 Spatial distribution of the ions species near the plasma sheet of the venusian magnetotail

9:00–9:15; EGU2007-A-01847; PS5-1TU1O-003
Galli, A.; Wurz, P.; Barabash, S.; Grigoriev, A.; Futaana, Y.; Holmström, M.; Fraenz, M.; The ASPERA-4 team
 First observation of energetic neutral atoms in the Venus environment

9:15–9:30; EGU2007-A-10271; PS5-1TU1O-004
Mazelle, C.; Sauvaud, J.A.; Barabash, S.; Fedorov, A.; Ferrier, C.; Delva, M.; Zhang, T.L.
 Ion distributions upstream from the bow shock of Venus

9:30–9:45; EGU2007-A-04504; PS5-1TU1O-005
Barabash, S.; Kallio, E.
 Can magnetizing Mars increase the atmospheric escape?

9:45–10:00; EGU2007-A-05089; PS5-1TU1O-006
Withers, P.; Wroten, J.; Mendillo, M.; Chamberlin, P.; Woods, T.
 Modeling the effects of solar flares on the ionosphere of Mars

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-06460; PS5-1TU2O-001
Lundin, R.; Barabash, S.; Nilsson, H.; Yamauchi, M.
 Solar forcing and the ionospheric heavy ion escape from Mars

10:45–11:00; EGU2007-A-05065; PS5-1TU2O-002
Futaana, Y.; Barabash, S.; Grigoriev, A.
 Solar zenith angle dependence of the solar wind ENA and proton precipitations into the Martian exosphere

11:00–11:15; EGU2007-A-02178; PS5-1TU2O-003
Dubin, E.; Fraenz, M.; Chanteur, G.; Woch, J.; Winningham, J.; Framm, R.; Lundin, R.; Barabash, S.
 Peaked electron distributions on Mars and possible mechanisms of their generation

11:15–11:30; EGU2007-A-01750; PS5-1TU2O-004
McKenna-Lawlor, S.M.P.; Dryer, M.; Fry, C.D.; Smith, Z.; Kartalev, M.D.; Sun, W.; Deehr, C.S.; Kecskemeti, K.; Kudela, K.; Barabash, S.; Shock Prediction Team
 Near real-time predictions of the arrival at Earth, Mars and Venus of flare-related shocks during the minimum phase (December, 2006) of Solar Cycle 23 and their comparison with multi-spacecraft observations

11:30–11:45; EGU2007-A-02027; PS5-1TU2O-005
Orsini, S.; Milillo, A.; Di Lellis, A.M.
 Perspectives of solar system environment observations by means of ENA detection

11:45–12:00; EGU2007-A-01693; PS5-1TU2O-006
 Hansen, K.C.; **Gombosi, T.I.**; De Zeeuw, D.L.; Ziegler, B.
 Rotational dynamics of the Jovian magnetosphere

12:00–12:15; EGU2007-A-04269; PS5-1TU2O-007
Radioti, A.; Gerard, J.-C.; Grodent, D.; Krupp, N.; Woch, J.
 Discontinuity in Jupiter's main auroral oval.

12:15 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2007-A-04642; PS5-1TU3O-001
 Cowee, MM; **Russell, CT**; Strangeway, RJ
 1D hybrid simulations of ion cyclotron waves generated by mass-loading at Io

13:45–14:00; EGU2007-A-09492; PS5-1TU3O-002
Southwood, D.J.; Dougherty, M.K.; Kivelson, M.G.
 Rotating and periodic phenomena at Saturn: circulation, magnetic cam, cusp, current sheet and SKR.

14:00–14:15; EGU2007-A-03102; PS5-1TU3O-003
Gurnett, D.A.; Persoon, A.M.; Kurth, W.S.; Wahlund, J.-E.; Dougherty, M.K.; Southwood, D.J.
 The origin of Saturn's variable radio modulation period

14:15–14:30; EGU2007-A-05667; PS5-1TU3O-004
Vasyliunas, V
 Periodicities in the magnetosphere of Saturn: making the distinctions

14:30–14:45; EGU2007-A-04627; PS5-1TU3O-005
Kurth, W.S.; Gurnett, D.A.; Hospodarsky, G.B.; Persoon, A.M.; Mitchell, D.G.; Zarka, P.; Cecconi, B.; Lamy, L.
 Cassini's early approaches to Saturn's auroral regions: A hint of things to come

14:45–15:00; EGU2007-A-06428; PS5-1TU3O-006
Wahlund, J.-E.; Lundberg, M.; Eriksson, A. I.; Morroka, M. W.; Averkamp, T. F.; Gurnett, D. A.; Kurth, W. S.; Kempf, S.; Srama, R.
 Distribution and Dynamics of Dusty Plasma in Saturn's Plasma Disk

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-06066; PS5-1TU4O-001
Khurana, K. K.; Arridge, C. S.; Dougherty, M. K.; Russell, C. T.
 The enigma of a large tilt in Saturn's current sheet

15:45–16:00; EGU2007-A-06020; PS5-1TU4O-002
Sittler, E; CAPS MAGNETOTAIL TEAM
 Cassini Observations of Saturn's Dawn-Magnetotail Region: Preliminary results

16:00–16:15; EGU2007-A-09212; PS5-1TU4O-003
Arridge, C.S.; Sittler, E.C.; André, N.; Coates, A.J.; Dougherty, M.K.; Khurana, K.K.; Lewis, G.R.; McAndrews, H.J.; Russell, C.T.
 Thermal electrons in Saturn's magnetotail

16:15–16:30; EGU2007-A-11000; PS5-1TU4O-004
Bertucci, C.; Achilleos, N.; Szego, K.; Coates, A.; Wahlund, J.; Arridge, C.; Neubauer, F.; Russell, C.; Wei, H.; Modolo, R.; The Cassini Titan Team
 On the structure and variability of Titan's magnetic environment

16:30–16:45; EGU2007-A-04945; PS5-1TU4O-005
Szego, K.; Bebesi, Z.; Bertucci, C.; Coates, A.J.; Crary, F.; Erdos, G.; Foldy, L.; Hartle, R.; Sittler, E.C.; Young, D.T.
 On the perturbed charged particle environment of Titan

16:45–17:00; EGU2007-A-09969; PS5-1TU4O-006
Burger, M.H.; Sittler, E.C.; Johnson, R.E.; Smith, H.T.
 Charge exchange in the Enceladus plume and water torus

17:00 END OF SESSION

PS5.5/MPRG06 Planetary Magnetism (co-organized by MPRG)

Convener: Gattacceca, J.
 Lecture Room 11
 Chairperson: B. LANGLAIS & J. GATTACCECA

17:30–17:45; EGU2007-A-05429; PS5.5/MPRG06-1TU5O-001
Southwood, D. J.; Dougherty, M. K.; The Magnetometer Team
 The Saturnian magnetic field: Internal and external interaction (solicited)

17:45–18:00; EGU2007-A-06567; PS5.5/MPRG06-1TU5O-002
Vennerstrom, S.
 Morphology and possible Causes of magnetic Disturbances near Mars (solicited)

18:00–18:15; EGU2007-A-10724; PS5.5/MPRG06-1TU5O-003
Raymond, C. A.; Milbury, C.; Smrekar, S.; Kulikov, I.; Schubert, G.
 Martian Paleopoles from Joint Gravity/Magnetic Inversion

18:15–18:30; EGU2007-A-08609; PS5.5/MPRG06-1TU5O-004
Langlais, B.; Thébault, E.; Quesnel, Y.
 Large impact demagnetization on Mars

18:30–18:45; EGU2007-A-11104; PS5.5/MPRG06-1TU5O-005
Bezaeva, N.; rochette, P.; gattacceca, J.; sadykov, R.A.; trukhin, V.I.
 Pressure demagnetization of the Martian crust: ground truth from SNC meteorites

18:45–19:00; EGU2007-A-11102; PS5.5/MPRG06-1TU5O-006
Gattacceca, J.; boustie, M.; berthe, L.; bezaeva, N.; besseguier, T.; rochette, P.
 On the efficiency of shock magnetization processes

19:00–19:15; EGU2007-A-04425; PS5.5/MPRG06-1TU5O-007
Gilder, S.; Le Goff, M.; Chervin, J.-C.
 Static stress demagnetization of single and multidomain magnetite with implications for meteorite impacts

19:15–19:30; EGU2007-A-05133; PS5.5/MPRG06-1TU5O-008
 Nzokwe, G.Y.; **Ferré, E.C.**; Fifarek, R.; Banerjee, S.K.; Dyar, M.D.; Hamilton, V.E.; Maurizot, P.; Tassarolo, C.
 Laterites developed on a peridotitic bedrock and magnetic similitudes with Martian regoliths

19:30 END OF SESSION

PS5.5/MPRG06 Planetary Magnetism (co-organized by MPRG) – Posters

Convener: Gattacceca, J.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 15:30–17:00

Poster Area Halls X/Y

Chairperson: J. GATTACCECA & B. LANGLAIS

XY0811; EGU2007-A-00627; PS5.5/MPRG06-1TU4P-0811

Starchenko, S.

Planetary magnetism driven by convection

XY0812; EGU2007-A-02889; PS5.5/MPRG06-1TU4P-0812

Quesnel, Y.; Langlais, B.; Manda, M.; Sotin, C.

Adjacent Martian lithospheric magnetized sources characterized by multi-altitude magnetic measurements

XY0813; EGU2007-A-05439; PS5.5/MPRG06-1TU4P-0813

Pesonen, L.J.; **Deutsch, A.**; Kohout, T.; Hornemann, U.

The magnetic behavior of synthetic magnetite induced by shock recovery experiments

XY0814; EGU2007-A-05955; PS5.5/MPRG06-1TU4P-0814

Sato, Y.; Nakamura, N.

Shocked melt veins as recorders of paleomagnetic field for an asteroidal parent-body

XY0815; EGU2007-A-05928; PS5.5/MPRG06-1TU4P-0815

Uehara, M.; Nakamura, N.

Direct identification of stable remanence carriers: MI magnetic microscopy with demagnetization tests

11:45–12:00; EGU2007-A-03627; SM2-1TU2O-005
Palomeras, I.; Flecha, I.; Carbonell, R.; Pérez-Estaún, A.; Simancas, F.; González-Lodeiro, F.
The seismic velocity structure of the continental crust of SW-Iberian Peninsula

12:00 LUNCH BREAK

Chairperson: CARBONELL, R

13:30–14:00; EGU2007-A-09780; SM2-1TU3O-001

Oncken, O.; Sobolev, S.

Deep architecture and processes of an active orogen – the Andes (solicited)

14:00–14:15; EGU2007-A-04180; SM2-1TU3O-002

Groß, K.; Buske, S.; Shapiro, S. A.; Wigger, P.; TIPTEQ Research Group, X.

Advanced seismic imaging of deep seismic reflection data

14:15–14:30; EGU2007-A-09166; SM2-1TU3O-003

Thybo, H.

Influence of magmatism on the Moho

14:30–14:45; EGU2007-A-06191; SM2-1TU3O-004

Kozlovskaya, E.; POLENET/LAPNET Working Group, W.G.

POLENET/LAPNET - a multidisciplinary seismic array research in Northern Fennoscandia during the International Polar Year 2007-2009

14:45–15:00; EGU2007-A-03753; SM2-1TU3O-005

Bondo, A.; Balling, N.; Weidle, C.; Jacobsen, B.H.

P-wave residuals and preliminary results of P-wave tomography in southern Scandinavia

15:00 COFFEE BREAK

Chairperson: ONCKEN, O

15:30–15:45; EGU2007-A-00552; SM2-1TU4O-001

Can, B.; Gurbuz, C.

The crustal and upper mantle shear wave velocity structure beneath Eastern Turkey

15:45–16:00; EGU2007-A-06662; SM2-1TU4O-002

Papoulia, J. E.; Makris, J. N.

Active and passive seismic observations and their implication in seismic hazard assessment in the north Evoikos basin, central Greece

16:00–16:15; EGU2007-A-01290; SM2-1TU4O-003

Dolgikh, G.I.; **Kholodkevich, E.D.**; Navrotsky, V.V.

Spectral analysis of the Earth crust microdeformations in the land-ocean transition zone

16:15–16:30; EGU2007-A-01882; SM2-1TU4O-004

Badal, J.; Chen, Y.; Hu, J.

S-wave velocity structure and radial anisotropy in the Qinghai-Tibet Plateau

16:30–16:45; EGU2007-A-05161; SM2-1TU4O-005

Kovalevsky, V.; Alekseev, A.; Glinsky, B.

Earth's global tomography with the use of vibrating sources

16:45–17:00; EGU2007-A-01021; SM2-1TU4O-006

Fowler, R.

Conserving soil or water: accelerating the adoption of Conservation Agriculture in South East Africa

17:00 END OF SESSION

Seismology

SM2 Controlled and natural source seismic investigations of crust and upper mantle

Convener: Carbonell, R.

Co-Convener(s): Thybo, H.

Lecture Room 26

Chairperson: THYBO, H

10:30–11:00; EGU2007-A-05805; SM2-1TU2O-001

Sato, H.; Ito, K.; Abe, S.; Kato, N.; Hirata, N.; Kawanaka, T.
Deep seismic profiling across Lake Biwa, Japan: Formation of pull-down basin by subduction-induced mantle flow (solicited)

11:00–11:15; EGU2007-A-02572; SM2-1TU2O-002

Díaz, J.; Gallart, J.; Ruiz, M.; Pulgar, J.A.; López-Fernández, C.; González-Cortina, J.M.

Seismic anisotropy beneath North Iberia evidenced from shear wave splitting

11:15–11:30; EGU2007-A-02992; SM2-1TU2O-003

Oueity, J.; Clowes, R. M.

3D imaging and modeling of upper mantle reflections associated with Paleoproterozoic subduction in NW Canada

11:30–11:45; EGU2007-A-09385; SM2-1TU2O-004

Dinc Akdogan, A.N.; Arroyo, I.; Thorwart, M.; Koulakov, I.; Rabbel, W.; Flueh, E.

A combined tomographic inversion of two independent amphibious networks in Costa Rica

SM2 Controlled and natural source seismic investigations of crust and upper mantle – Posters

Convener: Carbonell, R.
Co-Convener(s): Thybo, H.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 17:30–19:00

Poster Area Hall A

Chairperson: CARBONELL, R AND THYBO, H

A0331; EGU2007-A-01890; SM2-1TU5P-0331

Badal, J.; Chen, Y.; Hu, J.

Sharp images of the subducted lithosphere in Tibet

A0332; EGU2007-A-02379; SM2-1TU5P-0332

Zhang, Z.; Teng, J.; **Badal, J.**

Regional and local seismic anisotropy through shear-wave splitting from wide-angle seismic data

A0333; EGU2007-A-06860; SM2-1TU5P-0333

Bai, Z.; Zhang, Z.; Wang, C.

Crustal structure beneath the volcanic region of Tengchong (China) from shear-wave splitting

A0334; EGU2007-A-11139; SM2-1TU5P-0334

Gao, Y.; Wu, J.; Chen, Y T; Huang, J L

Seismic Anisotropy in the crust in Capital Area in China

A0335; EGU2007-A-03619; SM2-1TU5P-0335

Wagner, D.; Koulakov, I.; **Luehr, B.-G.;** Rabbel, W.; Wittwer, A.; Kopp, H.; Bohm, M.; Asch, G.

The Tomographic Results of the MERAMEX-Project and its Relation to the Java Earthquake in May 2006

A0336; EGU2007-A-04874; SM2-1TU5P-0336

Kato, N.; Sato, H.; Abe, S.; Ito, K.

Seismic reflection profiling across the Median Tectonic Line active fault system, south of Osaka, SW Japan

A0337; EGU2007-A-01581; SM2-1TU5P-0337

Asakawa, E.; Mizohata, S.; Kasahara, J.; Nishizawa, A.

Ocean Bottom Imaging using Multiple Reflected Water Waves Obtained by OBS

A0338; EGU2007-A-03702; SM2-1TU5P-0338

Teoman, U.M.; Gok, R.; Turkelli, N.

3-D P-Wave Velocity Structure Beneath Eastern Turkey

A0339; EGU2007-A-06069; SM2-1TU5P-0339

Erduran, M.; Cakir, O.; Tezel, T.

Joint inversion of receiver function and surface wave dispersion for crust and uppermost mantle velocity structure beneath station ISP (Isparta, Turkey)

A0340; EGU2007-A-03749; SM2-1TU5P-0340

Bekler, F.N.; Ozel, N.M

The Recent Seismic Activity and Faulting System in Southern Marmara Region

A0341; EGU2007-A-02319; SM2-1TU5P-0341

Maggi, C.; Chiappini, M.; Cimini, G.B.; Console, R.; Frepoli, A.

New insights on seismicity pattern in the Lucanian Apennines (Southern Italy) and minimum 1D velocity model.

A0342; EGU2007-A-04892; SM2-1TU5P-0342

Bekler, T.

Crustal Structure Estimation of Northwestern Aegean Region by Waveform Simulation

A0343; EGU2007-A-08060; SM2-1TU5P-0343

Erduran, M.; Endrun, B.; Meier, T.

Continental vs. Oceanic Lithosphere in the Eastern Mediterranean

A0344; EGU2007-A-02567; SM2-1TU5P-0344

Blacic, T.; Latorre, D.; Vassallo, M.; Virieux, J.; Zollo, A. Converted phases analysis of the Campi Flegrei caldera using active and passive seismic data

A0345; EGU2007-A-07679; SM2-1TU5P-0345

Roselli, P.; Piana Agostinetti, N.; Braun, T.

Crustal and Upper-Mantle three-dimensional stratification and Anisotropy from Receiver Functions (Northern Apennines-Italy)

A0346; EGU2007-A-08840; SM2-1TU5P-0346

Galvé, A.; Gallart, J.; Díaz, J.; Fernández, M.; Greve-meyer, I.; Ranero, C.R.; and WetMed, Team

Probing the deep structure of the Eastern Alboran Basin (Western Mediterranean) by wide-angle seismics

A0347; EGU2007-A-06117; SM2-1TU5P-0347

Ruiz, M.; **Gallart, J.;** Díaz, J.; Pulgar, J.A.; and Marconi, Team

Seismic images of the lithospheric structure of the North Iberian continental margin. New results from the MARCONI Project.

A0348; EGU2007-A-06135; SM2-1TU5P-0348

Dahl-Jensen, T

Crustal structure of North Greenland – Receiver Function data

A0349; EGU2007-A-06685; SM2-1TU5P-0349

Hauser, F.; O'Reilly, B.M.; Readman, P.W.; Do, V.C.; Rumpel, H.-M.

S-wave and density structure along two wide-angle lines in SW-Ireland

A0350; EGU2007-A-00308; SM2-1TU5P-0350

Sichien, E.; Camelbeeck, T.; Henriët, J.P.

Estimating crustal thickness in Belgium using Moho-reflected waves

A0351; EGU2007-A-04070; SM2-1TU5P-0351

Silvennoinen, H.; Kozlovskaya, E.; Yliniemi, J.; Janik, T.; Tiira, T; FIRE, W.G.

Velocity structure of the uppermost crust along the southern part of FIRE4 profile in northern Finland

A0352; EGU2007-A-02719; SM2-1TU5P-0352

Svenningsen, L.; Balling, N.; **Jacobsen, B.H.;** Kind, R.; Wylegalla, K.; Schweitzer, J.

Accurate depths to Moho beneath the highlands of southern Norway resolved by teleseismic receiver functions

A0353; EGU2007-A-06585; SM2-1TU5P-0353

Behm, M.; Brückl, E.; Grad, M.; Madjanski, M.; CELEBRATION 2000 and ALP 2002 Working Groups, .

Crustal structure of the Eastern Alps and their foreland along the CEL10/ALP04 seismic profile

A0354; EGU2007-A-10197; SM2-1TU5P-0354

Sroda, P.; CELEBRATION 2000 Working Group

Seismic study of the west Carpathian upper mantle reflector - based on CELEBRATION 2000 data

A0355; EGU2007-A-10043; SM2-1TU5P-0355

Malinowski, M.; Janik, T.; **Sroda, P.;** Guterch, A.; Grad, M.; CELEBRATION 2000 Working Group

Evidence for tectonic differentiation in the southeastern Poland derived from 2-D and 3-D seismic velocity models of CELEBRATION'2000 project

A0356; EGU2007-A-07379; SM2-1TU5P-0356

Zych, A.; Perchuc, E.

Upper mantle models for the area of northern Poland from recordings of the permanent seismological stations

A0357; EGU2007-A-11036; SM2-1TU5P-0357

Eckhardt, C.; Rabbel, W.

The analysis of seismic anisotropy in the area of the German Regional Seismic Network (GRSN)

A0358; EGU2007-A-08858; SM2-1TU5P-0358

Sèbe, O.; Forbriger, T.; Ritter, J.R.R

The shear wave velocity underneath Bucharest City inferred from Love waves

A0359; EGU2007-A-00735; SM2-1TU5P-0359

Tugui, A.; Popa, M.; Craiu, M.; Radulian, M

Earthquake scenarios for Vrancea source and implication on shake-maps

A0360; EGU2007-A-05165; SM2-1TU5P-0360

Bocin, A.; Stephenson, R.

Southeastern Carpathians nappe architecture and Focsani Basin embodiment from 2D seismic ray-tracing

A0361; EGU2007-A-06526; SM2-1TU5P-0361

Stuart, G.; Houseman, G.; Hegedüs, E.; Brückl, E.; Radovanovic, S.; Achauer, U.; Brisbane, A.; Kovács, A.; Hausmann, H.; Team CBP

Understanding extension within a convergent orogen: initial results on seismic structure from the Carpathian Basins Project

A0362; EGU2007-A-06323; SM2-1TU5P-0362

Kampfova, H.; Malek, J.; Novotny, O.

Moho reflections at short epicentral distances from strong quarry blasts in the central Ore Mountains

A0363; EGU2007-A-05211; SM2-1TU5P-0363

Jakovlev, A.; Koulakov, I.; Rumpker, G.

Anisotropic local travel-time tomography with examples from the Baikal and Rwenzori regions

A0364; EGU2007-A-04369; SM2-1TU5P-0364

Deshayes, P.; Arroucau, P.; Monfret, T.; Pardo, M.; Virieux, J.; Beck, S.; Zandt, G

Monte Carlo method to determine an initial model for seismic wave attenuation tomography: Application to the central Chile-Western Argentina (30-34°S) region.

A0365; EGU2007-A-09055; SM2-1TU5P-0365

Dinc Akdogan, A.N.; Thorwart, M.; Koulakov, I.; Arroyo, I.; Rabbel, W.; Flueh, E.

Subduction zone structure and related processes beneath central Costa Rica

A0366; EGU2007-A-03813; SM2-1TU5P-0366

Heit, B.; Sodoudi, F.; Yuan, X.; Bianchi, M.; Kind, R.

Structures of the crust and mantle lithosphere in South America: trying to find the lithosphere-asthenosphere boundary

A0367; EGU2007-A-03847; SM2-1TU5P-0367

Buske, S.; Gutjahr, S.; Rentsch, S.; Shapiro, S.

Active and Passive Seismic Imaging of the San-Andreas-Fault-System

A0368; EGU2007-A-03866; SM2-1TU5P-0368

Sodoudi, F.; Kind, R.

High resolution images of the Lithosphere-Asthenosphere Boundary obtained from S receiver functions

A0369; EGU2007-A-05067; SM2-1TU5P-0369

Li, X.; Yuan, X.; Kind, R.

Global measurements of the mantle transition zone discontinuities by receiver functions

A0370; EGU2007-A-07491; SM2-1TU5P-0370

Perchuc, E.; Malinowski, M.; Thybo, H.

Models for the transition zone between „cold” and „hot” upper mantle in the North America

SM10 Precambrian lithosphere: insights from geophysics, geochemistry, and geodynamics

Convener: Artemieva, I.

Co-Convener(s): Ranalli, G., Brown, L.

Lecture Room 26

Chairperson: I.M. ARTEMIEVA, L.BROWN

8:30–8:45; EGU2007-A-09529; SM10-1TU10-001

Brown, L

Prospectus: A Trans-EurAsian Megatransect (TEAM)

8:45–9:00; EGU2007-A-08191; SM10-1TU10-002

Heikkinen, P.; Korja, A.

Northwestern extension of the TransEurasian Megatransect—a compilation of BABEL and FIRE deep seismic reflection profiles

9:00–9:15; EGU2007-A-06499; SM10-1TU10-003

Deschamps, F.; Lebedev, S.; Meier, T.; Trampert, J.

Stratification of seismic anisotropy beneath the east-central United States

9:15–9:30; EGU2007-A-08277; SM10-1TU10-004

Moorkamp, M.; Jones, A. G.; Eaton, D. W.

A lithosphere-scale relationship between electrical conductivity and seismic velocity in the Slave Craton ?

9:30–9:45; EGU2007-A-10143; SM10-1TU10-005

Muller, M.R.; Jones, A.G.; Evans, R.L.; Hatton, C.; Hamilton, M.P.; Miensopust, M.; Mountford, A.; Fourie, C.J.; Hutchins, D.; Ngwisanyi, T.; THE SAMTEX TEAM

Constraints from broadband magnetotellurics and mantle xenolith geochemistry on lithospheric thickness and stabilisation age of the Rehoboth Terrane, southern Africa

9:45–10:00; EGU2007-A-03808; SM10-1TU10-006

Artemieva, I M

Differential growth rate of the lithosphere in Precambrian: a comparative study of different cratons

10:00 END OF SESSION

SM10 Precambrian lithosphere: insights from geophysics, geochemistry, and geodynamics – Posters

Convener: Artemieva, I.

Co-Convener(s): Ranalli, G., Brown, L.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 17:30–19:00

Poster Area Hall A

Chairperson: I.M. ARTEMIEVA, L.BROWN

A0371; EGU2007-A-02121; SM10-1TU5P-0371

Liu, S.W.; Wang, L.S.

Thermal regime and rheological structure of Precambrian continental lithosphere in China: implications for Cenozoic diffuse boundary deformation

A0372; EGU2007-A-01124; SM10-1TU5P-0372

Toteu, S.F.; Numbem Tchakounté, J.; Van Schmus, W.R.; Penaye, J.; Deloule, E.; Mvondo Ondoua, J.; Bouyo Houketchang, M.; Ganwa, A.A.; White, W.M.

Evidence of ca 1.6 Ga detrital zircon in the Bafia Group (Cameroon): Implication for the chronostratigraphy of the Pan-African Belt north of the Congo craton

A0373; EGU2007-A-05510; SM10-1TU5P-0373

Bogdanova, S.V.; Bibikova, E.V.; De Waele, B.; Postnikov, A.V.

Volgo-Uralia: a large piece of the global Archaean framework (solicited)

A0374; EGU2007-A-09905; SM10-1TU5P-0374
Bogdanova, S.; **Lubnina, N.**
Paleomagnetic evidence of rotations and conjugate rifting of the East European Craton in the Mesoproterozoic

A0375; EGU2007-A-02869; SM10-1TU5P-0375
Wuestefeld, A.; **Bokelmann, G.H.R**
Shear-wave splitting beneath thick lithospheric keels: a case study of the East European Craton

A0376; EGU2007-A-07475; SM10-1TU5P-0376
Walther, M; Plenefisch, T
Automated analysis of SKS shear-wave splitting for regional seismic networks

A0377; EGU2007-A-05077; SM10-1TU5P-0377
Darbyshire, F.; Lebedev, S.
Upper mantle anisotropy beneath the Superior and Grenville Provinces, Ontario, Canada: insights from tomographic inversion of Rayleigh wave phase velocities. (solicited)

A0378; EGU2007-A-08767; SM10-1TU5P-0378
Hamilton, M.P.; Jones, A.G.; Evans, R.L.; Muller, M.R.; Miensoopust, M.; Fourie, C.J.S; Ngwisany, T.; Hutchins, D.; Evans, S.F.; Mountford, A.; The SAMTEX Team
Electrical and seismic anisotropy properties over Southern Africa

A0379; EGU2007-A-03915; SM10-1TU5P-0379
Plomerova, J.; Babuska, V.; Kozlovskaya, E.; Vecsey, L.
Structure of the Precambrian lithosphere in Fennoscandia - an indication of stability of mantle lithosphere fabrics and existence of an early form of plate tectonics

A0380; EGU2007-A-08501; SM10-1TU5P-0380
Janik, T.; Kozlovskaya, E.; Heikkinen, P.; Yliniem, J.; the FIRE Working Group, &
Evidence for early plate tectonics in the northern Fennoscandian Shield derived from P- and S- wave velocity models of POLAR and HUKKA wide-angle profiles and FIRE4 reflection profile

A0381; EGU2007-A-03370; SM10-1TU5P-0381
Peltonen, P.; Kozlovskaya, E.; Korja, T.; O'Brien, H.; Lehtonen, M.; WG, SST; WG, BEAR; WG, EMMA
Continental mantle root deep analysis: a 620-km-long cross section of the Archean Karelian craton (Fennoscandian shield)

A0382; EGU2007-A-03745; SM10-1TU5P-0382
Zozulya, D.; Peltonen, P.; O'Brien, H.
Mantle composition and heat flow of the southern Kola craton (Fennoscandian shield)

A0383; EGU2007-A-00920; SM10-1TU5P-0383
Eken, T.; Shomali, H.; Roberts, R.
Deep Lithospheric Structure of the Baltic Shield below the Swedish National Seismological Network (SNSN) Resolved by Teleseismic Tomography

A0384; EGU2007-A-03856; SM10-1TU5P-0384
Artemieva, I M
Age-dependence of structure and properties of the continental lithosphere

SM13 Source Rupture Processes and Crustal Deformation in the Aegean and Eastern Mediterranean Region

Convener: TAYMAZ, T.
Lecture Room 6 (K)
Chairperson: N.N.

17:30–17:45; EGU2007-A-06432; SM13-1TU5O-001
Hollenstein, Ch.; Geiger, A.; Kahle, H.-G.
Crustal deformation field in Greece determined from 10 years of GPS measurements, with special emphasis on time-dependent behavior and the Lefkada 2003 earthquake (solicited)

17:45–18:00; EGU2007-A-01293; SM13-1TU5O-002
Orgulu, G.
Seismicity and Faulting Patterns of Earthquakes Beneath the Marmara Sea (solicited)

18:00–18:15; EGU2007-A-04153; SM13-1TU5O-003
Konstantinou, K; **Melis, N;** Boukouras, K; Stavrakakis, G
Regional Moment Tensor Solutions in Greece and Surrounding Areas Using NOA - HL Broadband Waveforms: An Application During the Period 2005-2006 (solicited)

18:15–18:30; EGU2007-A-01776; SM13-1TU5O-004
Yolsal, S.; Taymaz, T.
Source mechanism and rupture histories of the recent Gulf of Gökova and Sigacik Bay earthquakes (solicited)

18:30–18:45; EGU2007-A-04003; SM13-1TU5O-005
Hensch, M.; Hübscher, C.; Dehghani, A.; Dahm, T.; Hort, M.; Dimitriadis, I.; Taymaz, T.
Volcanic Hazard Risk assessment of Columbo Seamount (Aegean Sea, Greece) (solicited)

18:45–19:00; EGU2007-A-02132; SM13-1TU5O-006
Ergin, M; Aktar, M; Özalaybey, S; Tapirdamaz, C; Selvi, O; Tarancioglu, A
A high resolution aftershock seismicity image of the 2002 Sultandag-Cay earthquake (mw=6.5), Turkey (solicited)

19:00 END OF SESSION

SM13 Source Rupture Processes and Crustal Deformation in the Aegean and Eastern Mediterranean Region – Posters

Convener: TAYMAZ, T.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 10:30–12:00
Poster Area Hall A
Chairperson: N.N.

A0385; EGU2007-A-01706; SM13-1TU2P-0385
Kwiatek, G.; Melis, N.
Routine analysis of focal mechanism – moment tensor solutions of moderate, small magnitude events in Greece: An example of the Gulf of Corinth region (solicited)

A0386; EGU2007-A-02160; SM13-1TU2P-0386
Taymaz, T.; Yolsal, S.; Tok, H.E.; international working group members
Source Rupture Processes of Mw 6.7 Kytheria Earthquake of January 8, 2006 and Synthesis of International EGELADOS and COLUMBOS Projects: Active Tectonics of the Aegean Sea (solicited)

A0387; EGU2007-A-02306; SM13-1TU2P-0387
Yolsal, S.; Taymaz, T.; Yalçiner, A.C.
Source Characteristics of Earthquakes along the Hellenic and Cyprus Arcs and Simulation of Historical Tsunamis (solicited)

A0388; EGU2007-A-07086; SM13-1TU2P-0388
Ventouzi, Ch.; **Bruestle, A.;** Fischer, K.D.; Kueperkoch, L.; Taymaz, T.; Meier, T.; Friederich, W.; Papazachos, C.; Stavrakakis, G.
Investigations on the Kythira-earthquake (SW Aegean Sea) on 8 January 2006 using the EGELADOS-network (solicited)

A0389; EGU2007-A-09289; SM13-1TU2P-0389
Karabulut, H.; Bouin, M.-P.; Bouchon, M.; Ozalaybey, S.; Aktar, M.
 Detailed relocation of the aftershock seismicity of the 17 August 1999 Izmit earthquake (solicited)

A0390; EGU2007-A-09678; SM13-1TU2P-0390
Tunc, B.; Dinc Akdogan, A.N.; Tunc, S.; Baris, S.; Ozer, M.F.; Kenar, O.; Ito, A.; Honkura, Y.; Ucer, S.B.
 Determination of the accurate hypocenters and minimum one-dimensional velocity model for the Marmara Region, Turkey (solicited)

A0391; EGU2007-A-10198; SM13-1TU2P-0391
Baris, S.; Irmak, T.S.; Grosser, H.; Ozer, M.F.; Woith, H.; Ulutas, E.; Tuncer, M.K.
 Monitoring seismicity in the eastern Marmara: the Armutlu Network
 Monitoring seismicity in the eastern Marmara: the Armutlu Network (solicited)

A0392; EGU2007-A-10212; SM13-1TU2P-0392
Irmak, T.S.; Grosser, H.; Ozer, M.F.; Woith, H.; Baris, S.
 The 24 October 2006 Gemlik Earthquake (M=5.2) (solicited)

A0393; EGU2007-A-11133; SM13-1TU2P-0393
Irmak, T.S.; Taymaz, T.; Özer, M.F.
 Asperities and barriers map of Colfiorito Area in Italy during 1997–1998 Umbria-Marche sequence inferred from teleseismic body waveform inversion (solicited)

Soil System Sciences

SSS13 Soil erosion on agricultural land (co-listed in GM)

Convener: Cerda, A.
 Co-Convener(s): Boardman, J., Le Bissonnais, Y., Flanagan, D.
 Lecture Room 33
 Chairperson: FLANAGAN, D.

8:30–8:45; EGU2007-A-11625; SSS13-1TU1O-001
Zhang, J.H.; Ni, S.J.
 Variation of chemical properties as affected by soil redistribution due to water and tillage erosion

8:45–9:00; EGU2007-A-10931; SSS13-1TU1O-002
de Lima, J.L.M.P.; Souza, C.S.; Singh, V.P.; Azevedo, J.M.M.; de Lima, M.P.
 Granulometric characterization of sediments transported by runoff generated by moving storms

9:00–9:15; EGU2007-A-01103; SSS13-1TU1O-003
Taboada, M.A.; Barbosa, O.A.; Cosentino, D.J.
 Soil cracking and shrinkage in a silty loam under different management regimes

9:15–9:30; EGU2007-A-01120; SSS13-1TU1O-004
Levy, G.J.; Warrington, D.N.; Bhardwaj, A.K.; Mamedov, A.I.
 Particle size distribution of eroded material from semi-arid soils

9:30–9:45; EGU2007-A-00835; SSS13-1TU1O-005
Bilotta, G.S.; Brazier, R.E.; Haygarth, P.M.; Granger, S.; Butler, P.
 The influence of subsurface drainage on sediment and phosphorus export from intensively managed grasslands

9:45–10:00; EGU2007-A-02210; SSS13-1TU1O-006
González-Hidalgo, J.C.; de Luis, M.; Batalla, R.J.
 Effects of largest daily events on soil erosion by rainwater. An analysis of USLE database.

10:00 COFFEE BREAK

Chairperson: BOARDMAN, J.

10:30–10:45; EGU2007-A-02054; SSS13-1TU2O-001
Houben, P.

Vast erosion, vast colluviation, - but the way of sediment flux accounts for a success story of sustainable land use? Lessons learned from a 7500 years sediment budget in an agricultural loess catchment, Germany.

10:45–11:00; EGU2007-A-09084; SSS13-1TU2O-002
Lo Curzio, S.; Magliulo, P.; Russo, F.
 Soil erosion assessment using Geomorphological Remote Sensing techniques: an example from Southern Italy

11:00–11:15; EGU2007-A-10803; SSS13-1TU2O-003
Seeger, M.; Lana-Renault, N.; Regües, D.; Garcia-Ruiz, J. M.
 Runoff generation, erosion and soil redistribution in a catchment with abandoned agriculture in the Central Spanish Pyrenees

11:15–11:30; EGU2007-A-10547; SSS13-1TU2O-004
Mahler, C.; Mendes, C.; Granato, A.
 Surface Erosion on a Steep Slope under perennial crop and fallowing in Bom Jardim County, Rio de Janeiro State

11:30–11:45; EGU2007-A-08162; SSS13-1TU2O-005
Andrieux, P.; Le Bissonnais, Y.; Trambouze, W.; Coulouma, G.; Zante, P.
 Erosion as affected by agricultural practices in the Mediterranean vineyard

11:45–12:00; EGU2007-A-08602; SSS13-1TU2O-006
Lado, M.; Ben-Hur, M.
 Effluent irrigation effects on seal formation and soil loss under simulated and natural rainfall

12:00 LUNCH BREAK

Chairperson: LEBISSONNAIS, Y.

13:30–13:45; EGU2007-A-01237; SSS13-1TU3O-001
Lobb, D.A.
 Pushing and pulling tillage erosion into the future (solicited)

13:45–14:00; EGU2007-A-10457; SSS13-1TU3O-002
Govers, G.; Van Oost, K.; Peeters, I.; Poesen, J.; Verstraeten, G.; Van Rompaey, A.
 Erosion on arable land : a reflection on what we know, what we do not know and what we should know (solicited)

14:00–14:15; EGU2007-A-11324; SSS13-1TU3O-003
de Alba, S.; Barbero, F.; Lucía, A.; Guerra, G.; Talavera, M.; Martín, C.
 Soil redistribution and erosion by tillage: Remodelling agricultural landscapes (solicited)

14:15–14:30; EGU2007-A-01015; SSS13-1TU3O-004
Gomez, J.A.; Giraldez, J.V.; Fereres, E.
 Cover crop effect on soil conservation in olive orchards. (solicited)

14:30–14:45; EGU2007-A-07168; SSS13-1TU3O-005
Kertész, Á.; Tóth, A.; Szalai, Z.; Booth, C.A.; Fullen, M.A.; Davies, K.
 The role of geotextiles in soil erosion and conservation

14:45–15:00; EGU2007-A-11429; SSS13-1TU3O-006
Silgram, M.; Jackson, B.; Quinton, J.; Stevens, C.; Bailey, A.
 Can tramline management be an effective tool for controlling sediment loss from arable agriculture?

15:00 COFFEE BREAK

Chairperson: KINNELL, P.

15:30–15:45; EGU2007-A-09338; SSS13-1TU40-001

Laloy, E.; Biolders, C.

Effects of destruction and burial dates of cover crops on runoff and erosion in a maize cropping system: measurements and modelling

15:45–16:00; EGU2007-A-00354; SSS13-1TU40-002

Flanagan, D

Erosion prediction technology development in the United States.

16:00–16:15; EGU2007-A-01213; SSS13-1TU40-003

Lewis, L.; Chen, H.; El Garrouani, A.

Modeling soil erosion and deposition utilizing remote sensing and GIS in the Tlata river basin, Morocco

16:15–16:30; EGU2007-A-01595; SSS13-1TU40-004

Casadei, M.; Farabegoli, E.; Tosi, M.

Modelling the effect of agricultural practice on soil loss and surface hidrology in mediterranean clayey hillslopes

16:30–16:45; EGU2007-A-00006; SSS13-1TU40-005

Kinnell, P

Modelling event erosion using a modification of the Universal Soil Loss Equation

16:45–17:00; EGU2007-A-11299; SSS13-1TU40-006

Le Gouée, P.; Delahaye, D.

SCALES : a large-scale assessment model of soil erosion hazard in Basse-Normandie (France)

17:00 END OF SESSION

SSS13 Soil erosion on agricultural land (co-listed in GM) – Posters

Convener: Cerdà, A.

Co-Convener(s): Boardman, J., Le Bissonnais, Y., Flanagan, D.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 17:30–19:00

Poster Area Hall A

Chairperson: GOVERS, G

A0394; EGU2007-A-00509; SSS13-1TU5P-0394

Cerdà, A.

Herbicide versus Tillage. Soil and water losses at the El Teularet soil erosion experimental station

A0395; EGU2007-A-01079; SSS13-1TU5P-0395

Mataix-Solera, J.; García-Orenes, F.; Guerrero, C.; Semper, J.G.; **Cerdà, A.**

Organic matter, aggregate stability and soil erosion after one year of applications of different agricultural and rangeland managements.

A0396; EGU2007-A-00511; SSS13-1TU5P-0396

Cerdà, A.

Citrus production and soil loss in Eastern Spain

A0397; EGU2007-A-11325; SSS13-1TU5P-0397

de Alba, S.; Guerra, G.; Lacasta, C.; Benito, G.; Pérez-González, A.

Influence of soil management on water erosion in a Mediterranean semiarid climate

A0398; EGU2007-A-11326; SSS13-1TU5P-0398

de Alba, S.; Borselli, L.; Torri, D.; Lindstrom, M.J.; Schumacher, T.E.

Field evidence of soil redistribution and soil erosion by tillage

A0399; EGU2007-A-11328; SSS13-1TU5P-0399

de Alba, S.; Barbero, F.

Effectiveness of contour tillage to reduce water erosion during extreme rainfall events

A0400; EGU2007-A-00355; SSS13-1TU5P-0400

Flanagan, D.

Use of anionic polyacrylamide to control runoff, soil erosion, and nutrient loss

A0401; EGU2007-A-11232; SSS13-1TU5P-0401

Jakab, G.; Kertész, A.; Dezső, Z.; Madarász, B.; Szalai, Z.; Bádonyi, K.

The role of gully erosion in total soil loss at catchment scale

A0402; EGU2007-A-11230; SSS13-1TU5P-0402

Kertész, A.; Tóth, A.

Soil erosion susceptibility map of Lake Velence Catchmen

A0403; EGU2007-A-01105; SSS13-1TU5P-0403

Taboada, M.A.; Barbosa, O.A.; Casentino, D.J.

Soil cracking and shrinkage in a silty loam under different management regimes

A0404; EGU2007-A-10181; SSS13-1TU5P-0404

Taboada-Castro, M. M.; Taboada-Castro, M. T.; Rodríguez-Blanco, M. L.

Soil surface conditions: effect on runoff and erosion in agricultural areas of Galicia (NW, Spain)

A0405; EGU2007-A-09779; SSS13-1TU5P-0405

Rodríguez-Blanco, M. L.; **Taboada-Castro, M. M.;** Taboada-Castro, M. T.

Sources and suspended solid load in a rural catchment, NW Spain

A0406; EGU2007-A-09577; SSS13-1TU5P-0406

Zoldan, W.A.; Bertol, I.; Pegoraro, R.; Fabian, E.L.; Barbosa, F.T.; **Vidal Vázquez, E.**

Effect of tillage history on soil surface roughness decay

A0407; EGU2007-A-11647; SSS13-1TU5P-0407

Lo Curzio, S.; **Magliulo, P.;** Russo, F.

Soil erosion in Southern Italy: the case study of Saccione Stream basin

A0408; EGU2007-A-08022; SSS13-1TU5P-0408

Bertol, I.; Mirás Avalos, J.M.; Sande Fouz, P.; Vidal Vázquez, E.; **Paz González, A.**

Runoff, sediment yield, and nutrient losses as affected by crop residues on a loamy soil prone to crusting

A0409; EGU2007-A-08006; SSS13-1TU5P-0409

Trümper, G.; Klik, A.

Impacts of different soil tillage systems on soil respiration

A0410; EGU2007-A-07377; SSS13-1TU5P-0410

Alves, T.; Gomez, H. A.; **Gomez, J.A.**

Portable rainfall and overland flow simulator.

A0411; EGU2007-A-05380; SSS13-1TU5P-0411

Levy, G.J.; Warrington, D.N.; Bhardwaj, A.K.; Mamedov, A.I.

Changes in Eroded Material and Runoff as Affected by Rain Depth and Aggregate Slaking in Three Semi-arid Region Soils

A0412; EGU2007-A-05041; SSS13-1TU5P-0412

Ries, J. B.; Wistorf, S.; **Fister, W.**

Rainfall simulation experiments – drop size, drop size distribution and distribution pattern of a small mobile nozzle-type simulator

A0413; EGU2007-A-05039; SSS13-1TU5P-0413

Ries, J. B.; Iserloh, Th.; **Fister, W.**

Rainfall simulation experiments – drop size distribution and fall velocity of artificial rainfall

A0414; EGU2007-A-03933; SSS13-1TU5P-0414
Zorn, M.; Miko, M.; Petan, S.; Mikoš, M.
Measurements of interrill erosion on flysch soil under different land use (SW Slovenia)

A0415; EGU2007-A-01312; SSS13-1TU5P-0415
Sadiki, A.; Faleh, A.; **Navas, A.**; Bouhlassa, S.
Using magnetic susceptibility to qualitatively assess soil erosion on cultivated slopes of the Eastern Rif, Morocco

A0416; EGU2007-A-01107; SSS13-1TU5P-0416
Duseja, D.; Dennis, S.
Long-term zero-tillage effects on soybean growth and soil properties

A0417; EGU2007-A-11234; SSS13-1TU5P-0417
Molina, M.J.; Soriano, M.D.; Llinares, J.V.; Pons, V.
Organic matter, aggregate stability and infiltration relationships in agricultural semiarid soils of Valencia

A0418; EGU2007-A-01100; SSS13-1TU5P-0418
Mavlyanov, G.N.
Agricultural pollution of underground waters.

A0419; EGU2007-A-01090; SSS13-1TU5P-0419
Mabit, L.; Li, L.; Toloza, A.; Bernard, C.
Soil erosion processes and soil quality variability evaluated using fallout radionuclides

A0420; EGU2007-A-11651; SSS13-1TU5P-0420
Taguas, E.V.; Peña, A.; Ayuso, J.L.; Giraldez, J.V.; Pérez, R.
Testing of AnnAGNPS (Annualized Agricultural Non Point Source) on olive orchards at microcatchment scale

A0421; EGU2007-A-01037; SSS13-1TU5P-0421
Fowler, R.M.
Conserving soil or water: accelerating the adoption of Conservation Agriculture in South East Africa.

A0422; EGU2007-A-01106; SSS13-1TU5P-0422
Popov, L.; Ion, C.
Development of erosion hazards and elaboration of erosion prevention plans in Southern region of the Republic of Moldova

A0423; EGU2007-A-11233; SSS13-1TU5P-0423
González-Hidalgo, J.C.; de Luis, M.; Batalla, R.J.; Cerdà, A.
Precipitation and runoff that causing the largest daily erosion events. An introductory analysis using the USLE data base.

A0424; EGU2007-A-11229; SSS13-1TU5P-0424
Dantas-F., M.; Pejon, O.; Zuquette, L.; Cendrero, A.
The Role Of Terrain Variables And Human Activity On The Development Of Erosion Features; A Case Study In The State Of Sao Paulo, Brazil

A0425; EGU2007-A-08698; SSS13-1TU5P-0425
Ciubotaru, V.; Biol, E.
Participatory approach to soil erosion and poverty

A0426; EGU2007-A-04960; SSS13-1TU5P-0426
Mahmoodabadi, M.; Rafahi, H.G.
Evaluation of soil erodibility using rainfall simulation in comparison to the USLE estimation

A0427; EGU2007-A-03438; SSS13-1TU5P-0427
Martínez-Mena, M.; Almagro, M.; López, J.; Boix-fayós, C.; Albaladejo, J.
Effect of soil water erosion and cultivation on the carbon stock in a Semiarid Area of Southeast Spain.

A0428; EGU2007-A-11048; SSS13-1TU5P-0428
Farabegoli, E.; **Casadei, M.**; Tosi, M.; Rossi, P.; Bitelli, M.; Salvatorelli, F.; Cassabi, G.; Zani, O.; Cimatti, R.; Baldelli, C.; THE SLID TEAM
The SLID project: tools and methods to estimate agricultural soil loss in clayey Mediterranean hillslopes

A0429; EGU2007-A-11644; SSS13-1TU5P-0429
López-Vicente, M.; **Navas, A.**; Machín, J.
Assessing soil losses in mountain agricultural fields by applying the RUSLE and the MMF model

A0430; EGU2007-A-11238; SSS13-1TU5P-0430
Bertol, I.; Zoldan, W.A.; Zavaschi, E.; Bosetti, E.; Luciano, R.V.; **Paz González, A.**
Selected erosion parameters as influenced by tillage history

A0431; EGU2007-A-11323; SSS13-1TU5P-0431
Mirás Avalos, J. M.; Vidal Vázquez, E.; **Paz González, A.**; Dafonte Dafonte, J.; Valcárcel Armesto, M.
Rates of soil erosion in an Atlantic area of NW Spain

Solar-Terrestrial Sciences

ST3 Open session on the Sun and heliosphere

Convener: Forsyth, R.
Co-Convener(s): Bothmer, V.
Lecture Room 15 (F2)
Chairperson: FORSYTH, R.

8:30–8:45; EGU2007-A-10956; ST3-1TU10-001
Kretzschmar, M.; Dudok de Wit, T.; Lilensten, J.; Aboudarham, J.; Amblard, P.O.; Auchère, F.; Moussaoui, S.
Statistical analysis of Solar Irradiance

8:45–9:00; EGU2007-A-03318; ST3-1TU10-002
Tellmann, S.; Pätzold, M.; Häusler, B.; Bird, M.
Radio Sounding of the Solar Corona with Rosetta, Mars Express and Venus Express

9:00–9:15; EGU2007-A-08175; ST3-1TU10-003
Vilmer, N.
Diagnostics of solar flare energetic electrons from combined hard X-ray/gamma-ray and centimeter/millimeter observations

9:15–9:30; EGU2007-A-10837; ST3-1TU10-004
Mursula, K.; Virtanen, I.I.; Hiltula, T.
Where is the Ballerina Bashful: HCS Properties in the Inner and Outer Heliosphere

9:30–9:45; EGU2007-A-02463; ST3-1TU10-005
Smith, E. J.; Zhou, X.-Y.; Ruzmaikin, A.
Quasi-periodicities and empirical modes of the Heliospheric Magnetic Field

9:45–10:00; EGU2007-A-04575; ST3-1TU10-006
Chapman, S.C.; Hnat, B.
Quantifying the intermittency independent scaling exponents in the anisotropic solar wind.

10:00 COFFEE BREAK

Chairperson: BOTHMER, V.

10:30–11:00; EGU2007-A-03427; ST3-1TU20-001
Schwenn, R.
Space storms are roaring through the solar system: why do we earthlings care? (Julius Bartels Medal Lecture) (solicited)

11:00–11:15; EGU2007-A-09256; ST3-1TU20-002
Podladchikova, O.; Marque, C.; Berghmans, D.
Solar Blast Waves by SOHO and STEREO. From one solar minimum to another.

11:15–11:30; EGU2007-A-04076; ST3-1TU20-003
Vandas, M.; Geranios, A.; Romashets, E.
Comparison of observations and a model of magnetic clouds

11:30–11:45; EGU2007-A-09873; ST3-1TU2O-004
Mulligan, T.; Blake, B.; Spence, H.; Jordan, A.; Quenby, J.; Shaul, D.
 Transient IP structures associated with short-period variations in the SEP and GCR flux

11:45 END OF SESSION

ST9 Linear and nonlinear wave particle interactions in space plasmas – Posters

Convener: Pickett, J.
 Co-Convener(s): Tsurutani, B., Pottellette, R.
 Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 10:30–12:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0816; EGU2007-A-01685; ST9-1TU2P-0816
Sharma, R.P.; Malik, M.; Singh, H.D.
 Nonlinear coherent structures generation and particle acceleration in space plasmas

XY0817; EGU2007-A-07797; ST9-1TU2P-0817
Nordblad, E.; Stasiewicz, K.
 Nonlinear Alfvén Waves in Plasmas with Collisional Damping and Density Gradients

XY0818; EGU2007-A-00095; ST9-1TU2P-0818
Simões Junior, F. J.; Alves, M. V.
 Electromagnetic simulation of multiple electrons beams propagation in a background plasma.

XY0819; EGU2007-A-10541; ST9-1TU2P-0819
Kis, A.; Scholer, M.; Klecker, B.; Lucek, E. A.; Rème, H.; Kucharek, H.; Wertztergom, V.; Lemperger, I.
 Multi-spacecraft observations of diffuse ions upstream of Earth's bow shock under different solar wind conditions

XY0820; EGU2007-A-07486; ST9-1TU2P-0820
Backrud, M.; André, M.; Eriksson, A.; Fazakerley, A.; Vaivads, A.; Wahlund, J.E.
 Cluster spacecraft Observations of Electric Field and Particle Acceleration Caused by Anomalous Wave-Particle Resistivity in Space Plasmas.

XY0821; EGU2007-A-03106; ST9-1TU2P-0821
Pickett, J. S.; Christopher, I. W.; Ghosh, S. S.; Lakhina, G. S.; Winningham, J. D.; Lavraud, B.; Lucek, E.; Gurnett, D. A.
 Propagation of electrostatic solitary waves in the magnetosheath: multispacecraft observations and simulations

XY0822; EGU2007-A-00998; ST9-1TU2P-0822
Lu, Q. M.; Tao, J. B.; Lembege, B.; Wang, S.
 Electron phase-space holes in a two-dimensional plasma

XY0823; EGU2007-A-05204; ST9-1TU2P-0823
Ekeberg, J.; Stasiewicz, K.; Leyser, T. B.; Eliasson, L.
 Role of solitary waves in producing enhanced ion-acoustic lines in incoherent radar spectra

XY0824; EGU2007-A-03502; ST9-1TU2P-0824
Alexandrova, O.; Lacombe, C.E.; Mangeney, A.; Lucek, E.A.
 CLUSTER observations in the magnetosheath: anisotropies of wave vector distributions of the turbulence at proton scales

XY0825; EGU2007-A-04659; ST9-1TU2P-0825
Krupar, V.; Santolik, O.; Maksimovic, M.; Cornilleau-Wehrlin, N.; Pickett, J.S.
 Initial Results of a Systematic Analysis of Lion Roar Emissions Observed by Cluster

XY0826; EGU2007-A-08596; ST9-1TU2P-0826
Amata, E.; Savin, S.; Passot, T.; Sulem, P.L.; Dunlop, M.; Blecki, J.; Buechner, J.; Rauch, J.L.; Smirnov, V.; Novikov, D.
 A nonlinear Alfvénic coherent structure as plasma flow terminator

XY0827; EGU2007-A-00315; ST9-1TU2P-0827
Antonova, E.E.; Rossolenko, C.C.; Kirpichev, I.P.; Yermolaev, Yu.I.; Borodkova, N.L.
 Characteristics of low latitude boundary layer and the magnetosheath plasma penetration inside the magnetosphere

XY0828; EGU2007-A-10612; ST9-1TU2P-0828
Blecki, J.; Parrot, M.; Cornilleau-Wehrlin, N.; Savin, S.; Wronowski, R.
 Which instability in the polar cusp-relation to observations by Cluster

XY0829; EGU2007-A-00532; ST9-1TU2P-0829
Panov, E.V.; Buechner, J.; Fraenz, M.; Korth, A.; Khotyaintsev, Y.; Fornacon, K.-H.; Reme, H.
 CLUSTER observation of perpendicular ion-cyclotron waves and associated transport at the Earth's magnetopause

XY0830; EGU2007-A-04650; ST9-1TU2P-0830
Macusova, E.; Santolik, O.; Gurnett, D.A.; Pickett, J.S.; Nunn, D.; Trakhtengerts, V.Y.; Demekhov, A.G.; Titova, E.E.; Kozelov, B.V.; Rycroft, M.J.
 Parametric study of sweep rates of wave packets of whistler mode chorus

XY0831; EGU2007-A-06525; ST9-1TU2P-0831
Chum, J.; Santolik, O.; Gurnett, D.A.; Pickett, J.S.; Cornilleau-Wehrlin, N.
 Correlation analysis of corresponding chorus elements observed on different CLUSTER spacecraft: open questions on propagation and generation

XY0832; EGU2007-A-01331; ST9-1TU2P-0832
Verkhoglyadova, O. P.; Omura, Y.; Yagitani, S.; Kojima, H.; Tsurutani, B. T.; Matsumoto, H.
 The Properties of Nonlinear Chorus Emissions Related to the Acceleration of Relativistic Electrons

XY0833; EGU2007-A-04402; ST9-1TU2P-0833
Demekhov, A. G.; Trakhtengerts, V. Y.; Nunn, D.
 Numerical study of chorus generation on the basis of the backward-wave oscillator model

XY0834; EGU2007-A-03792; ST9-1TU2P-0834
Golubev, S. V.; Demekhov, A. G.; Mansfeld, D. A.; Razin, S. V.; Shalashov, A. G.; Vodopyanov, A. V.; Zorin, V. G.
 Observations of pulsed regimes of electron cyclotron instabilities in a mirror confined plasma produced by ECR discharge: similarities and differences with space plasmas

XY0835; EGU2007-A-03024; ST9-1TU2P-0835
Malingre, M.; Berthelier, J.J.; Seran, E.; Pottellette, R.; Parrot, M.
 Wave emissions and plasma heating inside equatorial plasma bubbles

XY0836; EGU2007-A-11456; ST9-1TU2P-0836
Patel, R.P.; Singh, S.K.; Singh, S.; Singh, R.P.
 Space climatology of upper atmosphere using VLF whistler mode waves at low latitude

ST10 Coupling processes of radiation belts and plasmasphere – Posters

Convener: Laakso, H.
Co-Convener(s): Friedel, R., Masson, A., Bencze, P.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0837; EGU2007-A-06380; ST10-1TU3P-0837

Bencze, P.; Verö, J.
Plasmaspheric plasma density changes shown by hydromagnetic waves

XY0838; EGU2007-A-06334; ST10-1TU3P-0838

Darrrouzet, F.; De Keyser, J.; Décréau, P. M.; Gallagher, D. L.; Dunlop, M. W.; Lemaire, J. F.; Roth, M.
Density and magnetic field structure in the plasmasphere: comparison between CLUSTER data and models

XY0839; EGU2007-A-02293; ST10-1TU3P-0839

Laakso, H.; Taylor, M.; Aasnes, A.; Escoubet, C.P.; Masson, A.
Correlation between outer radiation belt, plasmopause and electric fields

XY0840; EGU2007-A-02133; ST10-1TU3P-0840

Boscher, D.; Maget, V.
Analysis of the NOAA-POES proton radiation belt measurements.

XY0841; EGU2007-A-03777; ST10-1TU3P-0841

Maget, V.; Bourdarie, S.; Boscher, D.
Long term evolution of the Earth protons radiation belts from 1990 to 2005 using GOES data and Salammbro code

XY0842; EGU2007-A-05401; ST10-1TU3P-0842

Smolin, S.
Model of the pitch angle diffusion

XY0843; EGU2007-A-06965; ST10-1TU3P-0843

Bucik, R.; **Kudela, K.**
Hard X-ray observations of electron precipitation in January 2005

XY0844; EGU2007-A-07860; ST10-1TU3P-0844

Sorbo, M.; Brandt, P. C.; Soraas, F.; Oksavik, K.; Evans, D. S.
The Storm Time Equatorial Belt is dominated by Oxygen ions from the ring current

XY0845; EGU2007-A-10934; ST10-1TU3P-0845

Xie, L.; Pu, Z.Y.; Zong, Q.G.
Energetic particles boundaries in the inner magnetosphere observed by the Cluster

ST11 Sources and sinks of energy in the substorm cycle – Posters

Convener: Rodger, A.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0846; EGU2007-A-00543; ST11-1TU4P-0846

Kozyreva, O.
Wave signature of substorms during strong magnetic storm on 15th May 2005

XY0847; EGU2007-A-05331; ST11-1TU4P-0847

Despirak, I.V.; Kozelov, B.V.; Lubchich, A.A.
The influence of high-speed solar wind streams on the auroral bulge parameters and parameters of the substorm westward electrojet

XY0848; EGU2007-A-05832; ST11-1TU4P-0848

Cheng, C.-C.; Shue, J.-H.; Russell, C. T.
On the relationships between low-latitude Pi2 pulsations, auroral brightenings, and fast flows in the plasma sheet

XY0849; EGU2007-A-07826; ST11-1TU4P-0849

Pitkänen, T.; Aikio, A.T.; Kozlovsky, A.; Amm, O.
Estimating the nightside ionospheric reconnection electric field

ST13 Solar, heliospheric and atmospheric coupling with near-Earth space

Convener: Fullekrug, M.
Co-Convener(s): Crosby, N.
Lecture Room 8
Chairperson: CROSBY, N.B.

15:30–16:00; EGU2007-A-06991; ST13-1TU4O-001

Neubert, T.; THE CAL TEAM
Coupling of thunderstorms to the stratosphere, mesosphere and ionosphere (solicited)

16:00–16:15; EGU2007-A-02226; ST13-1TU4O-002

Haldoupis, C.; Mika, A.; Neubert, T.; Inan, U.; Steiner, R.; Shalimov, S.
“Early” type VLF perturbations observed in relation with sprites and elves during the EuroSprite campaigns

16:15–16:30; EGU2007-A-09981; ST13-1TU4O-003

Fullekrug, M.; Roussel Dupre, R.
Mesospheric runaway breakdown in LF radio

16:30–16:45; EGU2007-A-06527; ST13-1TU4O-004

Bennett, A.J.; Harrison, R.G.
Global circuit air-Earth conduction current density measurements for solar-terrestrial studies

16:45–17:00; EGU2007-A-10489; ST13-1TU4O-005

Vanina-Dart, L.B.
Simultaneous electron concentration profiles from the high-latitude D-region of both poles

17:00 COFFEE BREAK

Chairperson: FULLEKRUG, M.

17:30–18:00; EGU2007-A-07667; ST13-1TU5O-001

Arnold, F.; Fiedler, V.; Aufmhoff, H.; Schuck, T.; Nau, R.; Pirjola, L.; Jurkat, T.; Reichl, U.; Roiger, A.; Schlager, H.
Cosmic ray induced formation of atmospheric aerosol particles and cloud condensation nuclei: new insights from atmospheric trace gas and ion measurements and laboratory investigations of ion induced nucleation (solicited)

18:00–18:15; EGU2007-A-06554; ST13-1TU5O-002

Usoskin, I.G.; Kovaltsov, G.A.; Korte, M.
Regional cosmic ray induced ionization and geomagnetic field changes

18:15–18:30; EGU2007-A-00449; ST13-1TU5O-003

Mironova, I.A.; Usoskin, I.G.; Ponyavin, D.I.
Possible impact of solar and galactic cosmic rays on optical properties of the atmosphere

18:30–18:45; EGU2007-A-00723; ST13-1TU5O-004

Makhmutov, V. S.; Bazilevskaya, G. A.; Morzabaev, A.K.
Energy deposition and ionisation in the Earth's atmosphere during powerful solar energetic particle events

18:45–19:00; EGU2007-A-10886; ST13-1TU5O-005

Mursula, K.; Martini, D.
A New Verifiable Measure of Centennial Geomagnetic Activity: Modifying the K Index Method for Hourly Data

19:00 END OF SESSION

Stratigraphy, Sedimentology and Palaeontology

SSP4 3-d modelling of sedimentary Systems

Convener: Kukla, P.
Co-Convener(s): Aigner, T., Borgomano, J.
Lecture Room 32
Chairperson: KUKLA, P.; AIGNER, T.; BORGOMANO, J.

9:15–9:30; EGU2007-A-04277; SSP4-1TU10-004

Schlager, W.; Warrlich, G.M.D

Modeling parameter space and stability domains of contrasting patterns in sequence stratigraphy (solicited)

9:30–9:45; EGU2007-A-09584; SSP4-1TU10-005

Granjeon, D; **Roure, F**; Wolf, S; Alzaga-Ruiz, H
Use of 3D integrated stratigraphic and structural model

9:45–10:00; EGU2007-A-03826; SSP4-1TU10-006

Palermo, D.; Aigner, T.; Blendinger, W.; Nardon, S.
Outcrop study combined with 3-D Petrel geological and petrophysical modelling of an epicontinental basin

10:00 END OF SESSION

SSP7 Cenozoic basin evolution and uplift of the Paratethys basin system (co-listed in TS) – Posters

Convener: Wagreich, M.
Co-Convener(s): Harzhauser, M., Mandic, O.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 08:30–10:00
Poster Area Hall A
Chairperson: N.N.

A0432; EGU2007-A-03954; SSP7-1TU1P-0432

Márton, E

Important events of rotations in the Carpatho-Pannonian region during the lifetime of the Paratethys

A0433; EGU2007-A-02360; SSP7-1TU1P-0433

Aliabadi, R.; Wagreich, M.; Decker, K.; Sperl, H.

Dolomitisation of Middle Triassic carbonates below the Vienna Basin: Early or late?

A0434; EGU2007-A-02712; SSP7-1TU1P-0434

Decker, K.; Hölzel, M.; Strauss, P.; Wagreich, M.; Zamolyi, A.

Tectonic evolution of the Alpine-Carpathian junction during the Early Miocene [Karpatian Tectonics]

A0435; EGU2007-A-09476; SSP7-1TU1P-0435

Hölzel, M.; Wagreich, M.

Fault backstripping: How to quantify normal faulting in the southern Vienna Basin

A0436; EGU2007-A-10389; SSP7-1TU1P-0436

Zuschin, M.; Harzhauser, M.; **Mandic, O.**

Facies developments on the southwestern Vienna Basin margin (Badenian, Middle Miocene) and their paleoecological and paleogeographical significance

A0437; EGU2007-A-03316; SSP7-1TU1P-0437

Koukal, V.; Wagreich, M.; Salcher, B.

Pliocene conglomerates (Rohrbach Formation) in the southern Vienna Basin (Lower Austria)

A0438; EGU2007-A-10121; SSP7-1TU1P-0438

Tilita, M.; Barbu, V.; Comanescu, A.; Tulucan, A.

The relationship between basin opening, post-rift subsidence, inversion and sea-level variations in complex backarc settings: Miocene-Quaternary structures in the transition area between the Pannonian basin and the Apuseni Mountains

A0439; EGU2007-A-11030; SSP7-1TU1P-0439

Ivanov, D.; Utescher, T.; Ashraf, A.R.; Mosbrugger, V.; Slavomirova, E.; Djorgova, N.

High-resolution pollen analysis of late Miocene brown coal in the Staniantsi Basin (W Bulgaria)

A0440; EGU2007-A-07999; SSP7-1TU1P-0440

Vasiliev, I.; deLeeuw, A.; Matenco, L. C.; Krijgsman, W.; Snel, E.

Anisotropy of magnetic susceptibility in the Romanian Carpathian foredeep and the Transylvanian basin and its application to structural geology

A0441; EGU2007-A-08765; SSP7-1TU1P-0441

Leever, K.; Matenco, L.; Rabagia, T.

Messinian signature in the Eastern Paratethys: new seismic constraints from the Dacic Basin (Romania)

A0442; EGU2007-A-10331; SSP7-1TU1P-0442

Mandic, O.; Harzhauser, M.; Pavelic, D.; de Leeuw, A.; Krijgsman, W.

An integrative study of lacustrine successions of the Sinj Basin (Miocene Dinaride Lake System, SE Croatia) - paleontology, depositional history, cyclostratigraphy and paleomagnetism

A0443; EGU2007-A-10265; SSP7-1TU1P-0443

Harzhauser, M.; **Mandic, O.**

Neogene Lake Systems of Central Europe – diversity, gradients and faunistic interrelations

A0444; EGU2007-A-03451; SSP7-1TU1P-0444

KaramiArokhlou, M.P.; Meijer, P.Th.; Wortel, M.J.R

Towards a box model of the circulation of the Mediterranean-Paratethyan system in the Miocene

SSP10 Modelling subaqueous gravity flow processes and their deposits

Convener: Luthi, S.
Co-Convener(s): Baas, J., Mulder, T.
Lecture Room 32
Chairperson: N.N.

8:30–8:45; EGU2007-A-03668; SSP10-1TU10-001

MAS, V.; Dennielou, B.; Mulder, T.; Savoye, B.; Schmidt, S.; Khripounoff, A.; Vangriesheim, A.; Jounneau, J-M.

Recent sedimentological processes in the Var canyon; results from in-situ measurements and recurrent interface coring

8:45–9:00; EGU2007-A-08377; SSP10-1TU10-002

Groenenberg, R.M.; Weltje, G.J.; Luthi, S.M.; Kroonenberg, S.B.

Process-based modelling of turbidity-current hydrodynamics and sedimentation

9:00–9:15; EGU2007-A-11411; SSP10-1TU10-003

Mulder, T.

Recent insights into submarine gravity processes and their modelling

9:15 END OF SESSION

SSP14/CL44 Palaeoceanographic and palaeoclimatic change during the Palaeozoic, Mesozoic and Cenozoic: sedimentological, palaeontological, geochemical and modelling perspectives (co-organized by CL; co-sponsored by IAS)

Convener: Jarvis, I.
Co-Convener(s): Immenhauser, A.
Lecture Room 32
Chairperson: N.N.

10:30–10:45; EGU2007-A-01190; SSP14/CL44-1TU2O-001

Horne, D.J.

The Phanerozoic record of deep oceanic circulation and anoxia (solicited)

10:45–11:00; EGU2007-A-09391; SSP14/CL44-1TU2O-002

Adatte, T.; Keller, G.; Berner, Z.; Stüben, D.; Harting, M.
Impacts, volcanism, sea-level and climate fluctuations : a multi-causal scenario for the phanerozoic extinctions

11:00–11:15; EGU2007-A-02955; SSP14/CL44-1TU2O-003

Michalik, J.; Biron, A.; Lintnerova, O.; Gotz, A.; Ruckwied, K.

Climatic change at the T/J boundary in the NW Tethys Realm (Tatra Mts, Slovakia)

11:15–11:30; EGU2007-A-06919; SSP14/CL44-1TU2O-004

Cohen, A.; Coe, A.

Extreme environmental change during the Toarcian OAE: Evidence from stable and radiogenic isotopes (solicited)

11:30–11:45; EGU2007-A-03854; SSP14/CL44-1TU2O-005

Lignum, J.; Jarvis, I.; Pearce, M.

The dinoflagellate cyst record of the Cenomanian-Turonian boundary (OAE 2): data from a newly cored black shale succession, Wunstorf, northern Germany

11:45–12:00; EGU2007-A-00373; SSP14/CL44-1TU2O-006

Mort, H.; Adatte, T.; Föllmi, K.; Keller, G.; Gertsch, B.; Berner, Z.; Stuben, D.

What do black shales and red beds have in common?

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2007-A-05560; SSP14/CL44-1TU3O-001

Gröcke, D.R.

Using terrestrial carbon-isotope stratigraphy in understanding climates and environments (solicited)

13:45–14:00; EGU2007-A-02854; SSP14/CL44-1TU3O-002

Voigt, S.; Aurag, A.; Leis, F.; Kaplan, U.

Cretaceous high-resolution carbon isotope stratigraphy: a tool to decipher orbitally forced changes in the global carbon cycle? (solicited)

14:00–14:15; EGU2007-A-11162; SSP14/CL44-1TU3O-003

Wendler, J.; Vogt, C.; Sepulveda, J.; Kuss, J.

Significant changes in runoff across the C/T boundary (OAE2) deduced from mineralogical and palaeontological data (Levant carbonate platform, Jordan)

14:15–14:30; EGU2007-A-01513; SSP14/CL44-1TU3O-004

Friedrich, O.; **Erbacher, J.;** Moriya, K.; Wilson, P.A.; Bickert, T.

Evidence for warm saline bottom waters in the Cretaceous tropical Atlantic Ocean

14:30–14:45; EGU2007-A-08990; SSP14/CL44-1TU3O-005

Jovane, L.J.

Paleoceanographic Reconstruction of the Neo-Tethys from the Eocene to the early Oligocene

14:45–15:00; EGU2007-A-06143; SSP14/CL44-1TU3O-006

van Dam, J.; Abdul Aziz, H.; Álvarez Sierra, M.; Hilgen, F.; van den Hoek Ostende, L.; Lourens, L.; van der Meulen, A.; Mein, P.; Pelaez Campomanes, P.

Million-year scale astronomical cycles and mammal turnover

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-04781; SSP14/CL44-1TU4O-001

Föllmi, K.B.; Badertscher, C.; John, C.

Middle Miocene environmental change: the sedimentary record of the Monterey Formation (California, U.S.A.) (solicited)

15:45–16:00; EGU2007-A-05485; SSP14/CL44-1TU4O-002

Holbourn, A.; Kuhnt, W.; Schulz, M.; Flores, J.-A.; Andersen, N.

Middle Miocene climate rhythms: From „Greenhouse“ to „Icehouse“

16:00–16:15; EGU2007-A-03981; SSP14/CL44-1TU4O-003

DONDERS, T.H.; Munsterman, D.K.; Kloosterboer-van Hoeve, M.L.; Brinkhuis, H.; Lourens, L.J.

Coupled land-sea Miocene climate changes from the Southern North Sea Basin, NW Europe

16:15–16:30; EGU2007-A-06236; SSP14/CL44-1TU4O-004

Dorobek, S.L.

Long-term aggradation rates for Neogene carbonate platforms in the South China Sea and implications for sediment storage on icehouse vs greenhouse platforms

16:30–16:45; EGU2007-A-03312; SSP14/CL44-1TU4O-005

Lüer, V.; Hollis, C. J.; Neil, H. L.; Willems, H.

Late Quaternary radiolarian assemblages as indicators for paleoceanographic changes offshore eastern New Zealand, southwest Pacific

16:45–17:00; EGU2007-A-03706; SSP14/CL44-1TU4O-006

Nürnberg, D.; Ziegler, M.; Karas, C.

Loop Current variability in the Gulf of Mexico over the last 400 kyr in relation to changes in meridional overturning circulation and Mississippi discharge

17:00 END OF SESSION

SSP14/CL44 Palaeoceanographic and palaeoclimatic change during the Palaeozoic, Mesozoic and Cenozoic: sedimentological, palaeontological, geochemical and modelling perspectives (co-organized by CL; co-sponsored by IAS) – Posters

Convener: Jarvis, I.

Co-Convener(s): Immenhauser, A.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 17:30–19:00

Poster Area Hall A

Chairperson: N.N.

A0445; EGU2007-A-03247; SSP14/CL44-1TU5P-0445

Armendáriz, M.; Rosales, I.; Quesada, C.

Oxygen and carbon isotope records of brachiopod shells calcite (Late Viséan, SW Spain): evidence of Carboniferous palaeoclimatic change.

A0446; EGU2007-A-03369; SSP14/CL44-1TU5P-0446

Küster, Y.; Schramm, M.; Bornemann, O.; Leiss, B.

Bromide distribution characteristics in bedded and domal rock salts of the Stassfurt formation (Zechstein 2): implications for the influence of salt migration-related processes

A0447; EGU2007-A-07816; SSP14/CL44-1TU5P-0447

Sakuma, H.; Tada, R.; Kashiya, Y.; Ohkouchi, N.; Ogawa, N.; Watanabe, S.; Tajika, E.; Yamamoto, S.

High-resolution lithostratigraphy and organic carbon isotope stratigraphy of the lowest Triassic pelagic sequence in the Mino Terrane, central Japan

A0448; EGU2007-A-08884; SSP14/CL44-1TU5P-0448

Yamanaka, A.; **Yoshida, K.;** Kasuya, T.; Horikawa, H.

Early Triassic noxious benthic environments in the Lower – Middle Triassic sediments, the South Kitakami terrane, northeast Japan

A0449; EGU2007-A-04397; SSP14/CL44-1TU5P-0449

Galli, M.T.; Tiraboschi, D.; Torricelli, S.; Jenkyns, H.C.; Erba, E.

Palaeoceanographic model for the Early Toarcian black shales in the Maglio section (Southern Alps, Italy): palynological, calcareous nannofossil and stable-isotope analyses

A0450; EGU2007-A-05487; SSP14/CL44-1TU5P-0450

Brigaud, B.; **Pucéat, E.;** Pellenard, P.; Vincent, B.; Joachimski, M.

Rapid climatic fluctuations and seasonality during the Upper Jurassic (Oxfordian-Lower Kimmeridgian) inferred from oyster shell $\delta^{18}\text{O}$.

A0451; EGU2007-A-04411; SSP14/CL44-1TU5P-0451

Jadoul, F.; Lanfranchi, A.; Casellato, C.E.; Berra, F.; Galli, M.T.

Stratigraphic evolution and paleogeographic setting of the Middle Jurassic-Early Cretaceous carbonate platforms in Eastern Sardinia (Italy)

A0452; EGU2007-A-04860; SSP14/CL44-1TU5P-0452

Barbu, V.; Grocke, D. R.

Valanginian isotopic and paleoecological signals from the Bucegi Mountains, South Carpathians, Romania

A0453; EGU2007-A-06430; SSP14/CL44-1TU5P-0453

Parente, M.; Di Lucia, M.

Out-of-balance facies in the late Barremian-Aptian shallow-water carbonates of central-southern Apennines (Italy): the signature of nutrients and seawater chemistry?

A0454; EGU2007-A-06844; SSP14/CL44-1TU5P-0454

Westermann, S.; Matera, V.; Fiet, N.; Adatte, T.; Föllmi, K. B.

Trace-metals and phosphorus contents associated with the Valanginian and the Early Aptian oceanic anoxic event

A0455; EGU2007-A-06176; SSP14/CL44-1TU5P-0455

Rameil, N.; Immenhauser, A.; Warrlich, G.M.D

Microbial-Foraminiferal Episodes in the Lower Aptian of Oman – the Signature of Oceanic Anoxic Event 1a in shallow-marine Carbonate Ramp Deposits?

A0456; EGU2007-A-02693; SSP14/CL44-1TU5P-0456

Wagreich, M.

Do Lower Cretaceous CORBs indicate icehouse interludes?

A0457; EGU2007-A-10757; SSP14/CL44-1TU5P-0457

Graziano, R.; Taddei Ruggiero, E.

Cenomanian (Cretaceous) Brachiopod-Rich Facies of the Carbonate Platform-to-Basin Transition in the Matese Mountains (Central-Southern Italy): Stratigraphic and Paleoenvironmental Meaning.

A0458; EGU2007-A-06205; SSP14/CL44-1TU5P-0458

Shuklina, A.S.

Mid-Cretaceous climate change in Primorye, Russian Far East (cancelled)

A0459; EGU2007-A-06071; SSP14/CL44-1TU5P-0459

Krassilov, V.A.

Mid-Cretaceous climate change in Israel: no evidence of greenhouse (cancelled)

A0460; EGU2007-A-01590; SSP14/CL44-1TU5P-0460

Schovsbo, N.H.; Stemmerik, L.; Rasmussen, S.L.

Carbon and oxygen isotope variations in chalk-marl cycles, Upper Campanian – lower Maastrichtian, Stevns, eastern Denmark

A0461; EGU2007-A-02631; SSP14/CL44-1TU5P-0461

Madsen, H.B.; Stemmerik, L.; Schovsbo, N.

Flint and porcellanite occurrences in upper Campanian – Maastrichtian chalk, Stevns, eastern Denmark – implications for sea floor conditions

A0462; EGU2007-A-00078; SSP14/CL44-1TU5P-0462

Bornemann, A.; van Itterbeeck, J.; Schulte, P.; Steurbaut, E.; Speijer, R.P.

Stable isotope signature ($\delta^{13}\text{C}$, $\delta^{18}\text{O}$) of marine ostracods from the Danian/Selandian boundary (Paleocene, Tunisia)

A0463; EGU2007-A-09698; SSP14/CL44-1TU5P-0463

Luciani, V.; Agnini, C.; Fornaciari, E.; Giusberti, L.; Backman, J.; Rio, D.

High resolution study on planktonic foraminifera across the Paleocene-Eocene thermal maximum in the expanded Tethyan Forada section (Italy): paleoecological and paleoenvironmental implications

A0464; EGU2007-A-11621; SSP14/CL44-1TU5P-0464

Wan, X.; Wang, X.; Jansa, L.F.; Yu, T.; Wei, M.

Foraminifera and carbon stable isotope records during the Paleocene/ Eocene warm period in southern Tibet

A0465; EGU2007-A-05556; SSP14/CL44-1TU5P-0465

Shcherbinina, E.; Gavrilo, Yu.

Paleogene oxygen depletion episodes in the northeastern Peri-Tethys: A regional response to global events

A0466; EGU2007-A-07263; SSP14/CL44-1TU5P-0466

Mourik, A.A.; Hilgen, F.J.; Kouwenhoven, T.J.; van der Zwaan, G.J.

Middle Miocene Climate Transition as recorded in the Mediterranean Sea

A0467; EGU2007-A-04131; SSP14/CL44-1TU5P-0467

Roters, B.; Henrich, R.

Reconstruction of Southwest African Climate during the Middle and Late Miocene using Grain Size Analysis on ODP Core 1085

A0468; EGU2007-A-09681; SSP14/CL44-1TU5P-0468
Turpin, M.; Emmanuel, L.; Renard, M.
 Characterization of carbonate sedimentation in periplatform realms for the analysis of export phenomenon along platform - basin transects

A0469; EGU2007-A-06111; SSP14/CL44-1TU5P-0469
Drinia, H.; Antonarakou, A.; Sprovieri, M.; Lirer, F.
 Stable isotope signatures for paleoenvironmental reconstructions of the early Late Miocene deposits of the Pre-Apulian zone (Levkas Island, Ionian Sea)

A0470; EGU2007-A-08778; SSP14/CL44-1TU5P-0470
Seki, S.; Schmidt, S.; Schouten, S.; Hopmans, H.; Pancost, P.
 Biomarker records of climate change in the Caribbean Sea and East Equatorial Pacific associated with the closure of the Central American Seaway

A0471; EGU2007-A-08792; SSP14/CL44-1TU5P-0471
Consolaro, C.; Fornaciari, E.; Macrì, P.; Massari, F.; Rio, D.; Speranza, F.
 A major change in the sedimentation regime in the late Early Pliocene of the Croton Basin (Southern Italy) at about 3.7-3.6 Ma.

A0472; EGU2007-A-06367; SSP14/CL44-1TU5P-0472
Scarponi, D.; Kowalewski, M.
 Testing stratigraphic application of quantitative paleobiology: multivariate ordinations of mollusk associations from the Holocene succession of the Po Plain (Italy)

A0473; EGU2007-A-01462; SSP14/CL44-1TU5P-0473
Fagel, N.; Colin, L.; Brasseur, R.; Hillaire-Marcel, C.
 Holocene evolution of deep circulation pathways and current strength in Labrador Sea and adjacent basins: coupling mineralogy and grain-size data

A0474; EGU2007-A-03512; SSP14/CL44-1TU5P-0474
Hart, M.B.; Smart, C.W.; Lock, E.J.; Fisher, J.K.; Leng, M.J.
 Foraminifera, stable isotopes and the tephrochronology of marine sediments around the island of Montserrat, Lesser Antilles Volcanic Arc

SSP16/CL45 Climate events recorded in speleothems (co-organized by CL) (co-listed in IG) – Posters

Convener: Spötl, C.
 Co-Convener(s): Cheng, H., Fleitmann, D., Genty, D.
 Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 17:30–19:00
 Poster Area Hall A
 Chairperson: N.N.

A0475; EGU2007-A-00358; SSP16/CL45-1TU5P-0475
Liu, Z.Q.; Li, J.Y.; Li, H.-C.
 Implications of stable isotopes and elemental ratios in modern soda-straws from Zhijin Cave, Guizhou, China

A0476; EGU2007-A-00777; SSP16/CL45-1TU5P-0476
Siklosy, Z.; Demeny, A.; Vennemann, T.W.; Kramers, J.; Lauritzen, S.E.; Leel-Ossy, Sz.
 Middle bronze age climate change recorded in a Hungarian stalagmite: triggering by volcanic activity?

A0477; EGU2007-A-02352; SSP16/CL45-1TU5P-0477
Scholz, D.; Mühlinghaus, C.; Polag, D.; Mangini, A.; Segl, M.; Spötl, C.; Frisia, S.
 Kinetic fractionation of stable isotopes in speleothems – results from modelling and laboratory experiments

A0478; EGU2007-A-02369; SSP16/CL45-1TU5P-0478
Kluge, T.; Aeschbach-Hertig, W.
 The way to noble gas paleotemperatures derived from fluid inclusions in stalagmites

A0479; EGU2007-A-02714; SSP16/CL45-1TU5P-0479
Richter, D.K.; **Immenhauser, A.;** Neuser, R.
 Electron Backscatter Diffraction (EBSD) documents randomly oriented c-axes in Moonmilk calcite fibres – evidence for biologically induced precipitation

A0480; EGU2007-A-02827; SSP16/CL45-1TU5P-0480
DAPHNE Team, The; The DAPHNE Team
 DAPHNE – Dated speleothems: Archives of the paleoenvironment

A0481; EGU2007-A-02897; SSP16/CL45-1TU5P-0481
Romanov, D.; **Kaufmann, G.;** Dreybrodt, W.
 Modeling stalagmite growth based on physical and chemical principles

A0482; EGU2007-A-03143; SSP16/CL45-1TU5P-0482
Woo, K.; Jo, K.; Kim, J.; Yang, D.; Edwards, R.; Cheng, H.; Wang, Y.
 Paleoclimatic implications recorded in the late Pleistocene stalagmite, Eden Cave, Korea

A0483; EGU2007-A-03146; SSP16/CL45-1TU5P-0483
Jo, K.; Woo, K.; Li, H.; Luo, S.; Wan, N.; Tsai, Y.
 A 3000-year High-resolution record of stable isotopes and trace elements in a stalagmite from Yongcheon Cave in Jeju Island, Korea

A0484; EGU2007-A-03942; SSP16/CL45-1TU5P-0484
Pickering, R.; Kramers, J.D.; Partridge, T.C.; Venne-
 man, T.M.
 Uranium-Lead dating of speleothems >500 kyr: examples from the early Hominid bearing caves of South Africa

A0485; EGU2007-A-04500; SSP16/CL45-1TU5P-0485
Muñoz-García, M. B.; Martín-Chivelet, J.; Rossi, C.; Ford, D. C.; Schwarcz, H. P.
 High mountain climate in Northern Spain between 155 and 85 kyr BP

A0486; EGU2007-A-05168; SSP16/CL45-1TU5P-0486
Li, H.-C.; Cheng, H.; Edwards, R. L.; Yuan, D.-X.; Zhang, M.-L.; Lin, Y.-S.
 Paleomonsoon and paleoenvironment changes during the past 3000 years in Guizhou, China: speleothem $\delta^{18}\text{O}$ and $\delta^{13}\text{C}$ records

A0487; EGU2007-A-05642; SSP16/CL45-1TU5P-0487
Luetscher, M.; Hoffmann, D.L.; Ariztegui, D.
 Holocene rapid climate changes investigated in alpine speleothems, Michbach cave, Switzerland.

A0488; EGU2007-A-05702; SSP16/CL45-1TU5P-0488
Vonhof, H.B.; Atkinson, T.C.; van Breukelen, M.R.; Postma, O.
 Fluid inclusion hydrogen and oxygen isotope analyses using the “Amsterdam Device”: a progress report

A0489; EGU2007-A-05978; SSP16/CL45-1TU5P-0489
Hodge, E.; Levchenko, V.; Treble, P.; Fischer, M.; Waring, C.; McDonald, J.; Drysdale, R.; Fink, D.; Hua, Q.
 Radiocarbon bomb pulse chronologies for young speleothems in southeast Australia

A0490; EGU2007-A-06033; SSP16/CL45-1TU5P-0490
Atkinson, T.C.; Vonhof, H.B.; van Breukelen, M.R.; Rowe, P.J.
 Towards reliable fluid inclusion measurements of oxygen isotopes in speleothems

A0491; EGU2007-A-06252; SSP16/CL45-1TU5P-0491
Badertscher, S.V.; Scheidegger, Y.; Leuenberger, M.; Nyfeler, P.; Fleitmann, D.; Wieler, R.; Kipfer, R.
 Trace gas content in air inclusions in speleothems as a new paleoclimate archive?

A0492; EGU2007-A-06374; SSP16/CL45-1TU5P-0492
Scheidegger, Y.; Badertscher, S.V.; Driesner, Th.; Wieler, R.; Heber, V.S.; Kipfer, R.
 Microscopical speleothem calcite investigations proofing the existence of two different types of fluid inclusions

A0493; EGU2007-A-07306; SSP16/CL45-1TU5P-0493
Fleitmann, D.; Mudelsee, M.; Burns, S.J.; Bradley, R.S.; Kramers, J.; Matter, A.
 Speleothem evidence for a widespread climate anomaly at around 9.200 years before present

A0494; EGU2007-A-07314; SSP16/CL45-1TU5P-0494
Verfaillie, T.; Verheyden, S.; Keppens, E.
 Coinciding late Holocene $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ time series in stalagmites from different caves in Belgium.

A0495; EGU2007-A-07396; SSP16/CL45-1TU5P-0495
 Pirson, S.; **Court-Picon, M.;** Damblon, F.; Haesaerts, P.; Debenham, N.; Draily, C.
 Belgian cave entrance and rock-shelter sequences as palaeoenvironmental and palaeoclimatic data recorders: the example of the Walou cave multi-proxy study.

A0496; EGU2007-A-08187; SSP16/CL45-1TU5P-0496
Marwan, N.; Breitenbach, S.
 Detection of Climate Transitions in Asia Derived from Speleothems

A0497; EGU2007-A-08268; SSP16/CL45-1TU5P-0497
Meyer, M.C.; Spötl, C.; Mangini, A.
 Quantifying temperature and seasonality changes at the end of the last interglacial by means of isotopically dated alpine speleothems

A0498; EGU2007-A-09133; SSP16/CL45-1TU5P-0498
Spötl, C.; Mangini, A.
 A speleothem record of the Penultimate Interglacial from the Alps

A0499; EGU2007-A-09697; SSP16/CL45-1TU5P-0499
Breitenbach, S.; Plessen, B.; Marwan, N.; Oberhänsli, H.; Prasad, S.; Kotlia, B. S.; Fernandez, D.; Adkins, J.; Haug, G.
 North Atlantic cold events pushed ITCZ southward and weakened Indian summer Monsoon in northern India

A0500; EGU2007-A-10084; SSP16/CL45-1TU5P-0500
Couchoud, I.; Genty, D.; Blamart, D.; Gilmour, M.
 High resolution climate isotopic record of the Last Interglacial provided by a stalagmite in cave entrance from southwest France

A0501; EGU2007-A-10878; SSP16/CL45-1TU5P-0501
Turrero, M.J.; Garralón, A.; Martín-Chivelet, J.; Gómez, P.; Sánchez, L.; Ortega, A.I.
 Hydrogeochemical record of a recent severe drought at Kaite cave, Ojo Guareña Complex (N Spain): implications for paleoclimate series based on stalagmites

SSP20 Epeiric shelves - geochemistry, sedimentology, paleohydrology (co-sponsored by IAS)

Convener: Pratt, B.
 Co-Convener(s): Aurell, M.
 Lecture Room 32
 Chairperson: N.N.

17:30–17:45; EGU2007-A-01873; SSP20-1TU5O-001
Lokier, S.W.; Steuber, T.
 Shoreline advance and sedimentology in a modern epeiric sea, the Arabian Gulf, Abu Dhabi

17:45–18:00; EGU2007-A-03119; SSP20-1TU5O-002
Pratt, B.R.
 Tsunamis in ancient epeiric seas

18:00–18:15; EGU2007-A-03774; SSP20-1TU5O-003
Wetzel, A.; Brodbeck, M.; Vögelin, A.; Weissert, H.
 Circulation on an oolite-dominated carbonate platform in an epeiric sea exemplified by clay mineralogy and carbon isotopes: an example from the Middle Jurassic of Switzerland

18:15–18:30; EGU2007-A-05007; SSP20-1TU5O-004
Szulc, J.; Götz, A.; Feist-Burkhardt, S.; Török, A.
 Sedimentary, geochemical and palynological proxies of 3rd order eustatic fluctuations: An example from the Middle Triassic (Anisian) of Central Europe

18:30–18:45; EGU2007-A-03812; SSP20-1TU5O-005
Wells, M.R.; Allison, P.A.; Hampson, G.J.; Piggott, M.D.; Gorman, G.J.; Pain, C.C.; Fang, F.
 Numerical modelling of tides in the Late Pennsylvanian epicontinental seaway of North America

18:45–19:00; EGU2007-A-02453; SSP20-1TU5O-006
Qing, H.
 Dolomitization of Ordovician epeiric carbonate rocks, northern Williston Basin, Southeastern Saskatchewan, Canada

19:00 END OF SESSION

Tectonics and Structural Geology

TS1.1 The strengths and challenges of analogue and numerical models (co-listed in GD)

Convener: Buiters, S.
 Co-Convener(s): Schreurs, G.
 Lecture Room 5 (I)
 Chairperson: N.N.

14:15–14:30; EGU2007-A-10954; TS1.1-1TU3O-004
Sobolev, S.V.; Petrunin, A.; Popov, A.
 Numerical modelling of essentially 3-D deformation of heterogeneous elasto-visco-plastic lithosphere (solicited)

14:30–14:45; EGU2007-A-03282; TS1.1-1TU3O-005
Vattemville, J.; van Keken, P.; Davaille, A.
 Comparison of numerical and laboratory models of mantle plumes

14:45–15:00; EGU2007-A-05865; TS1.1-1TU3O-006
Yamada, Y.; Nagamura, N.; Baba, K.; Matsuoka, T.
 Analogue and numerical models of seamount subduction and its impact on methane hydrate accumulation

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-02960; TS1.1-1TU4O-001
Vendeville, B. C.
 The 3-D Nature of Stress Fields in Physical Experiments and its Impact on Models Overall Evolution (solicited)

15:45–16:00; EGU2007-A-06757; TS1.1-1TU4O-002
Mauduit, T. PO; Jong, S.
 Modeling polyphased deformation in salt tectonics

16:00–16:15; EGU2007-A-10065; TS1.1-1TU4O-003
Boutelier, D.; Schrank, C.; Cruden, A.
 Power-law rheology of highly filled silicon polymers: can we improve strain localization in analogue experiments?

16:15–16:30; EGU2007-A-05288; TS1.1-1TU4O-004
Marques, F. O.; Fonseca, P.; Marques, A. S.; Silva, J. C.
 Effects of strain rate on boudinage processes

16:30–16:45; EGU2007-A-00307; TS1.1-1TU4O-005

Mourgues, R.

Strengths and limits of analogue models involving fluid overpressures

16:45–17:00; EGU2007-A-05030; TS1.1-1TU4O-006

Schlagenhauf, A.; Manighetti, I.; Malavieille, J.; Dominguez, S.

Incremental growth of normal faults: insights from a laser-equipped analog experiment

17:00 END OF SESSION

TS1.2 Quantitative Structural Geology: Comparison of model results with natural examples

Convener: Grasemann, B.

Co-Convener(s): Schmid, D.

Lecture Room 5 (I)

Chairperson: N.N.

8:30–8:45; EGU2007-A-02259; TS1.2-1TU1O-001

Maniatis, G.; Hampel, A.

Along-strike Variations of the Slip Direction on Normal Faults: Insights from Three-Dimensional Finite-Element Models

8:45–9:00; EGU2007-A-06729; TS1.2-1TU1O-002

Maerten, F.; Maerten, L.; Davatzes, N. C.

Poly3D boundary element code with inequality constraints: More potential to model natural structures

9:00–9:15; EGU2007-A-10376; TS1.2-1TU1O-003

Philipp, S.L.; Bartelsen, T.; Hoffmann, S.; Oelrich, A.; Gudmundsson, A.

Numerical models of hydrofracture propagation and field studies of mineral veins and joints in mechanically layered sedimentary rocks

9:15–9:30; EGU2007-A-00325; TS1.2-1TU1O-004

Putz, M.; Sanderson, D.

Fault drag – extension, inversion or flanking structures?

9:30–9:45; EGU2007-A-03292; TS1.2-1TU1O-005

Exner, U.; Dabrowski, M.

3D fault drag – triclinic structures or triclinic flow?

9:45–10:00; EGU2007-A-03574; TS1.2-1TU1O-006

Mancktelow, N.

Numerical models of tectonic pressure variation during development of common deformation structures

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–11:00; EGU2007-A-09050; TS1.2-1TU2O-001

Fletcher, R. C.

Rheological behavior in decollement folding: Appalachian Plateau (solicited)

11:00–11:15; EGU2007-A-05296; TS1.2-1TU2O-002

Marques, F. O.; Schmid, D.; Podladchikov, Y.

Effects of strain rate on buckling of a thin elastic layer embedded in a viscous matrix

11:15–11:30; EGU2007-A-01740; TS1.2-1TU2O-003

Schmalholz, S.M.

3D Numerical Simulations of Viscous Single-layer Folding

11:30–11:45; EGU2007-A-03264; TS1.2-1TU2O-004

Frehner, M.; Schmalholz, S.M.

Numerical simulations of parasitic folding and strain distribution in multilayer systems

11:45–12:00; EGU2007-A-07419; TS1.2-1TU2O-005

Griera, A.; Gomez-Rivas, E.

Field analysis and analogue modelling of folds with axis oblique to the extensional direction

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2007-A-05647; TS1.2-1TU3O-001

Medvedev, S.; Hartz, E. H.; Podladchikov, Y. Y.

Topography of the Scoresbysund region, East Greenland: understanding the evolution by compiling observations and numerical analyses

13:45–14:00; EGU2007-A-05466; TS1.2-1TU3O-002

Gerya, T.V.; Tackley, P.J.; Yuen, D.A.

Shear heating, shell tectonics and core formation

14:00–14:15; EGU2007-A-10430; TS1.2-1TU3O-003

Hartz, E. H.; Podladchikov, Y. Y.; Dabrowski, M.

Tectonic and reaction overpressures: Theoretical models and natural examples.

14:15 END OF SESSION

TS3.2 Seismogenic coupling zones - state and processes – Posters

Convener: Krawczyk, C.

Co-Convener(s): Rietbrock, A., Ranero, C.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 08:30–10:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0850; EGU2007-A-02679; TS3.2-1TU1P-0850

Mneghini, F.; Di Toro, G.; Moore, C.; Rowe, C.; Tsutsumi, A.; Yamaguchi, A.

Fault rocks from seismogenic depths in exhumed subduction prisms: Pasagshak Point, Kodiak Island, AK.

XY0851; EGU2007-A-06798; TS3.2-1TU1P-0851

Scherwath, M.; **Contreras-Reyes, E.;** Grevemeyer, I.;

Flueh, E.R.; Weinrebe, W.; the TIPTEQ Research Group, .

Upper lithospheric structure of the subduction zone in Southern Chile - comparison of differently aged incoming plate

XY0852; EGU2007-A-03293; TS3.2-1TU1P-0852

Contreras-Reyes, E.; Scherwath, M.; Grevemeyer, I.;

Flueh, E.R. Seismic structure of the incoming Nazca plate offshore Southern Central Chile

XY0853; EGU2007-A-04114; TS3.2-1TU1P-0853

Groß, K.; Buske, S.; Shapiro, S. A.; **Wigger, P.;** TIPTEQ Research Group, X.

Seismic Imaging of the Subduction Zone in Southern Central Chile

XY0854; EGU2007-A-03692; TS3.2-1TU1P-0854

Micksch, U.; Krawczyk, C. M.; Ryberg, T.; Echtler, H.;

Stiller, M.; Tipteq Research Group, .

The crustal Architecture and the seismogenic coupling Zone in southern central Chile (38° S) derived from Reflection Seismic Imaging within Project TIPTEQ

XY0855; EGU2007-A-09840; TS3.2-1TU1P-0855

Brasse, H.; Kapinos, G.; Muetschard, L.

The enigma of geomagnetic transfer functions in the Chilean forearc

XY0856; EGU2007-A-06379; TS3.2-1TU1P-0856
Haberland, Ch.; Rietbrock, A.; Lange, D.; Bataille, K.; Dahm, T.; TIPTEQ Research Group, .
 Velocity structure of the Southern Chilean subduction zone (37° and 39°S) revealed by the TIPTEQ local seismic network

XY0857; EGU2007-A-03900; TS3.2-1TU1P-0857
Lange, D.; Rietbrock, A.; Haberland, C.; Dahm, T.; Bataille, K.; TIPTEQ Research Group, .
 Seismicity, focal mechanisms, and the state of stress of the Chilean subduction Zone at 42°S

XY0858; EGU2007-A-06331; TS3.2-1TU1P-0858
Hofmann, B.; Cesca, S.; Dahm, T.; Haberland, C.; Rietbrock, A.; TIPTEQ Research Group, the
 A combined amplitude-spectra time-traces inversion: theory and application to weak local earthquakes at the south-central Chilean margin

XY0859; EGU2007-A-10305; TS3.2-1TU1P-0859
Alasonati, P.; Alasonati Tasarova, Z.; Gotze, H.-J.; Hackney, R.; Meyer, U.; Schmidt, S.; TIPTEQ, R. G.
 Locating basin-centered asperities along the Chilean margin between 36 and 44S based on gravity anomalies

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 10:30–12:00

Poster Area Halls X/Y
 Chairperson: N.N.

XY0860; EGU2007-A-02880; TS3.2-1TU2P-0860
Bolte, J.; Klotz, J.; Grund, V.; Moreno, M.; Chen, J.; TIPTEQ Research Group, The
 A Finite Element Study of the Andean Subduction Zone

XY0861; EGU2007-A-05378; TS3.2-1TU2P-0861
Cailleau, B.; Oncken, O.
 Forearc deformation: Insights to the coupling at the subduction thrust interface

XY0862; EGU2007-A-07171; TS3.2-1TU2P-0862
Rosenau, M.; Oncken, O.; TIPTEQ Research Group, the
 Seismotectonic evolution of subduction zone forearcs – insights from analogue earthquake experiments

XY0863; EGU2007-A-06016; TS3.2-1TU2P-0863
Anderssohn, J.; Rudenko, S.; Kaufmann, H.; Oncken, O.; TIPTEQ Research Group, the
 Influence of satellite orbits on monitoring surface deformation in active margin settings with the DInSAR technique

XY0864; EGU2007-A-01395; TS3.2-1TU2P-0864
Moreno, M.; Melnick, D.; Klotz, J.; Bolte, J.; Chen, J.; Ehtler, H.; Bataille, K.
 Impact of upper crustal faults on interseismic surface deformation, Arauco-Concepción forearc block, Chile

XY0865; EGU2007-A-07565; TS3.2-1TU2P-0865
Heberer, B.; Behrmann, J.H.; Rahn, M.
 Can apatite fission track ages from modern trench sands reflect the dynamics of the upper plate? – Preliminary results from the Southern Chile Trench

XY0866; EGU2007-A-05357; TS3.2-1TU2P-0866
Roeser, G.; Heberer, B.; Behrmann, J.H.; Rahn, M.; **Kopf, A.**
 Sedimentology, petrography and provenance of modern Southern Chile Trench sediments (36°S–47°S)

XY0867; EGU2007-A-05349; TS3.2-1TU2P-0867
Roeser, G.; Behrmann, J.H.; Kopf, A.
 Did differences in strength and frictional behaviour of subducted sediment constrain the rupture of the great 1960 Chile earthquake?

XY0868; EGU2007-A-08985; TS3.2-1TU2P-0868
Kellner, A.; Kukowski, N.; Medvedev, S.; Schilling, F.; TIPTEQ Research Group, .
 The effect of fluids on thermal and mechanical processes in the plate interface zone

XY0869; EGU2007-A-08235; TS3.2-1TU2P-0869
Kummerow, J.; Schilling, F.R.; Feenstra, A.; TIPTEQ Research Group, .
 Ultrasonic "in-situ" monitoring of hydromechanical processes

XY0870; EGU2007-A-05498; TS3.2-1TU2P-0870
Kopf, A.
 Comparison of the mechanical properties of seismogenic fault gouge from extensional, strike-slip, and compressional fault zone drilling

TS3.3/NH4.4 Earthquake Geology (co-organized by NH) – Posters

Convener: Caputo, R.
 Co-Convener(s): Pavlides, S.
 Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 08:30–10:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0871; EGU2007-A-00283; TS3.3/NH4.4-1TU1P-0871
Caputo, R.; Helly, B.
 The European Palaeoseismological Museum of Tynavos, Central Greece.

XY0872; EGU2007-A-00952; TS3.3/NH4.4-1TU1P-0872
Shahpasandzadeh, M.; Javadi, H. R.; Ghasemi, M. R.; Yasaghi, A.; Esterabi, M.
 Recurrence time of major earthquakes along the Doruneh fault zone, eastern Iran, inferred from geologic and geomorphic features

XY0873; EGU2007-A-01490; TS3.3/NH4.4-1TU1P-0873
Moreno, X.; Gràcia, E.; Masana, E.; Bartolomé, R.; Bozzano, G.; Rubio, E.; Lo Iacono, C.; Reicherter, K.; Dañobeitia, J. J.; Santanach, P.; IMPULS cruise party
 Active tectonics along the offshore Carboneras Fault (SE Iberian Margin): High-resolution seismic characterization and paleoseismic signature

XY0874; EGU2007-A-02893; TS3.3/NH4.4-1TU1P-0874
Mirabella, F.; Lupattelli, A.; Barchi, M.R.; Stucchi, E.; Ciaccio, M.G.
 Insights on the seismogenic layer thickness from the upper crust structure of the Umbria-Marche Apennines (Central Italy)

XY0875; EGU2007-A-02941; TS3.3/NH4.4-1TU1P-0875
Lavecchia, G.; Boncio, P.; Brozzetti, F.; Pace, B.; Visini, F.
 A 500-km long active extensional fault system in central Italy: defining a model of 3D seismogenic sources for PSHA applications.

XY0876; EGU2007-A-03049; TS3.3/NH4.4-1TU1P-0876
Hinzen, K.-G.; Schreiber, S.; **Caputo, R.;** Liberatore, D.; Helly, B.; Tziafalias, A.
 A Quantitative Archaeoseismological Study of the Great Theatre of Larissa (Thessaly, Greece)

XY0877; EGU2007-A-04450; TS3.3/NH4.4-1TU1P-0877
Carlino, S.; Cubellis, E.; Marturano, A.
 Macroseismic analysis of historical seismicity in the Ischia island (Southern Italy) and influence of geological conditions on the effects of earthquakes

XY0878; EGU2007-A-04803; TS3.3/NH4.4-1TU1P-0878
Brozzetti, F.; Cardinali, M.; Di Naccio, D.; Galli, M.
 Morpho-structural evidences of active faulting in the Luni-
 giana Plio-Quaternary Graben (Northern Tuscany, Italy)

XY0879; EGU2007-A-07154; TS3.3/NH4.4-1TU1P-0879
Beidinger, A.; Decker, K.; Roch, K. H.; Grasemann, B.
 3D geometry of the active Lasee flower structure (Vienna
 Basin fault system): data from integrated geophysical,
 geomorphological and geological mapping

XY0880; EGU2007-A-07665; TS3.3/NH4.4-1TU1P-0880
Lekkas, E.
 The preceding seismic-volcanic activity of Santorini volcano
 (1600 B.C.), as a warning factor for the Akrotiri residents

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 10:30–12:00

Poster Area Halls X/Y
 Chairperson: N.N.

XY0881; EGU2007-A-07897; TS3.3/NH4.4-1TU2P-0881
Lekkas, E.; Kranis, H.; Voulgaris, N.
 The Sophades (Thessaly) earthquake revisited: morphotec-
 tonic analysis of the Ekkara fault system and seismic risk
 assessment of SW Thessaly

XY0882; EGU2007-A-08496; TS3.3/NH4.4-1TU2P-0882
Azañón, J.M.; Booth-Rea, G.; Martínez-Martínez, J.M.;
 Teixidó, T.; Peña, J.A.
 Repeated activity of the Malaha fault affecting a Roman to
 Medieval archaeological site (Granada basin, Spain).

XY0883; EGU2007-A-09129; TS3.3/NH4.4-1TU2P-0883
Delvaux, D.; Kervyn, F.; Petermans, T.; Verbeeck, K.;
 Machevski, A.S.; Temu, E.B.
 Earthquake geology of the Kanda fault system (Tanganyika-
 Rukwa rift, SW highlands of Tanzania)

XY0884; EGU2007-A-11277; TS3.3/NH4.4-1TU2P-0884
 Valkaniotis, S.; Pavlides, S.
 Active Tectonics in the northern rim of Corinth Gulf Rift
 (Central Greece): the Delphi-Arahova-Amfissa Fault System

XY0885; EGU2007-A-01784; TS3.3/NH4.4-1TU2P-0885
Gutiérrez, F.; Masana, E.; González, A.; Guerrero, J.;
 Lucha, P.
 Paleoseismological investigation in the Plio-Quaternary
 Munébrega Half-graben (Iberian Chain, NE Spain)

XY0886; EGU2007-A-06105; TS3.3/NH4.4-1TU2P-0886
Barchi, M. R.; Collettini, C.; Mirabella, F.
 Seismic reflection imaging of seismogenic faults: observa-
 tions from the Apennines of Italy

XY0887; EGU2007-A-06392; TS3.3/NH4.4-1TU2P-0887
 García-Mayordomo, J.
 Methodological approach towards the effective use of
 geological data in defining seismic source zones in seismic
 hazard analysis practice

XY0888; EGU2007-A-06767; TS3.3/NH4.4-1TU2P-0888
Setijadji, L.D.; Fukuoka, K.; Ehara, S.; Watanabe, K.
 Geology of Yogyakarta earthquakes 2006 (central Java,
 Indonesia): Current understanding based on integration of
 research outputs in geology, geophysics and remote sensing

XY0889; EGU2007-A-10290; TS3.3/NH4.4-1TU2P-0889
Brozzetti, F.; Boncio, P.; Tinari, D.P.; Di Naccio, D.;
 Torelli, L.
 Active LANFs and related transfer mechanisms at the north-
 ern termination of the Etrurian Fault System (Lunigiana-
 Garfagnana area, Italy).

XY0890; EGU2007-A-09918; TS3.3/NH4.4-1TU2P-0890
Scalera, G.
 Deep earthquakes and orogenic processes: toward a new
 global perspective?

TS6.1 Continental and oceanic wrench systems from top to bottom

Convener: Teyssier, C.
 Co-Convener(s): Whitney, D., Brocard, G., Storti, F.
 Lecture Room 3
 Chairperson: N.N.

8:30–8:45; EGU2007-A-11469; TS6.1-1TU1O-001
Tommasi, A.; Vauchez, A.
 Continental-scale wrench faults: how deep?

8:45–9:00; EGU2007-A-06926; TS6.1-1TU1O-002
 Hand, M.
 Channelised exhumation in the core of a transpressional
 shear system

9:00–9:15; EGU2007-A-02918; TS6.1-1TU1O-003
 Ratschbacher, L.; Martens, U.; Bachmann, R.; Franz, L.;
 Min, M.; McWilliams, M.; Weber, B.; Nelson, B.; Stüb-
 ner, K.
 The Mesozoic–Tertiary Caribbean plate boundary in
 Guatemala–Honduras: first-order temperature-deformation-
 time history

9:15–9:30; EGU2007-A-08300; TS6.1-1TU1O-004
Brocard, G.; Teyssier, C.; Whitney, D.; Dunlap, J.; Authemayou, C.
 river captures and erosional disequilibrium along a strike-
 slip faults (Guatemala)

9:30–9:45; EGU2007-A-07552; TS6.1-1TU1O-005
 Becken, M.; Ritter, O.; Park, S. K.; Bedrosian, P. A.;
 Weckmann, U.; Weber, M.
 A deep crustal fluid channel into the San Andreas Fault
 system imaged with magnetotellurics

9:45–10:00; EGU2007-A-09583; TS6.1-1TU1O-006
Ortner, H.; Rittner, M.; Paton, D.; Borer, J.; Trudgill, B.
 Geometry of growth strata in a transpressive system: An
 example from deep water sediments of the Gosau Group at
 Muttekopf, Northern Calcareous Alps, Austria

10:00 END OF SESSION

TS7.1 Orogen-basin coupling in intracontinental orogenic setting – Posters

Convener: Neubauer, F.
 Co-Convener(s): Liu, Y.
 Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 13:30–15:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0891; EGU2007-A-10912; TS7.1-1TU3P-0891
Dyment, J.; Cande, S.C.; Singh, S.C.
 Oceanic lithosphere subducting beneath the Sunda Trench:
 the Wharton Basin revisited

XY0892; EGU2007-A-07197; TS7.1-1TU3P-0892
 Parra, M.; Mora, A.; Jaramillo, C.; Strecker, M.R.; Sobel, E.R.
 Cenozoic exhumation history in the northeastern Andes:
 new data based on low-T thermochronology and basin
 analysis in the Eastern Cordillera of Colombia

XY0893; EGU2007-A-00691; TS7.1-1TU3P-0893

Nyunt, T. T.; Massonne, H.-J.

P-T evolution of mica-schists close to the Sagaing fault, Myanmar - implications for the tectonic regime in SE Asia during collision of India and Asia

XY0894; EGU2007-A-06054; TS7.1-1TU3P-0894

Fleury, JM; Pubellier, M; de Urreiztieta, M; Chamot-Rooke, N

Crustal Erosion and Subduction of continental Asperity: Sumba Island and Forearc, Indonesia

XY0895; EGU2007-A-03696; TS7.1-1TU3P-0895

Glorie, S.; De Grave, J.; Buslov, M.; Van den haute, P.; Batalev, V.

Mesozoic evolution of the Northern Tien Shan batholith (Kyrgyzstan): a reconnaissance apatite fission-track study of the Moldo Range and the Suusamyrl valley

XY0896; EGU2007-A-03736; TS7.1-1TU3P-0896

Dewanckele, J.; De Grave, J.; Buslov, M.; Delvaux, D.; Van den haute, P.

Apatite fission-track thermochronology of the Tunka Range, eastern Sayan Mountains and the southern Baikal rift area: preliminary results

XY0897; EGU2007-A-07711; TS7.1-1TU3P-0897

jianhua, ZH; zhikun, W; haiqiao, W; feng, M; hongliang, D; zhifeng, W; juan, ZH; yuntian, L; kongyou, W; yong, L

Study on the Quaternary glacial-ploughed deformation beddings in Seven Springs, western Chaidam Basin

XY0898; EGU2007-A-10557; TS7.1-1TU3P-0898

Delvaux, D.; De Grave, Y.; Poort, J.; Buslov, M.; Abdakhmatov, K.

Flexural deformation and basin-mountain coupling in the northern Kyrgyz Tien Shan: transition from the Issyk-Kul basin to the Kumtor plateau

XY0899; EGU2007-A-09447; TS7.1-1TU3P-0899

Sun, Z.S.; Liu, Y.J.; Bai, Y.; Fan, S.Q.; Sun, L.

Character and dynamic system evolution of metamorphic complexes at paleocontinental margin in Jilin during the transition from late Archaean to early Proterozoic

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 15:30–17:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0900; EGU2007-A-03713; TS7.1-1TU4P-0900

De Grave, J.; Buslov, M.; Van den haute, P.; Batalev, V.; Glorie, S.; Dewanckele, J.

A North-South profile through Kyrgyzstan: thermochronology and geochronology from the intracontinental mountain belts of the Northern Pamir to the Northern Tien Shan

XY0901; EGU2007-A-00729; TS7.1-1TU4P-0901

Acharya, K.K.; Edwards, M.; Grasemann, B.

A deformation-based criteria for identifying the MCT in the north western part of the Kathmandu nappe, Central Nepal

XY0902; EGU2007-A-02530; TS7.1-1TU4P-0902

Chang, JHC; Yu, HSY

Seismic characteristics of foredeep, west Taiwan foreland basin

XY0903; EGU2007-A-04739; TS7.1-1TU4P-0903

Liu, Y.J.; Neubauer, F.; Ge, X.H.; Genser, J.; Yuan, S.H.; Chang, L.H.; Li, W.M.

Geochronology of Altyn Strike-slip Fault and the uplifting of the Altyn Mountains, western China

XY0904; EGU2007-A-11565; TS7.1-1TU4P-0904

Genser, J.

Subsidence analysis and its consequences for formation mechanisms of the Qaidam basin

XY0905; EGU2007-A-08558; TS7.1-1TU4P-0905

Gröger, H.R.; Tischler, M.; Fügenschuh, B.; Schmid, S.M. Cretaceous Metamorphism in the northern East Carpathians: Constraints from Zircon Fission Track Thermochronology

XY0906; EGU2007-A-10139; TS7.1-1TU4P-0906

Jelen, B.; Rifelj, H.

Connecting small and large: a case from the Alps, Dinarides and Intracarpinian basin junction (Slovenia)

XY0907; EGU2007-A-07387; TS7.1-1TU4P-0907

Kargaranbafghi, F.; Neubauer, F.; Genser, J.; Houshmandzadeh, A.

40Ar/39Ar age constraints on the tectonothermal evolution of the Chapedony metamorphic core complex, Central Iran

XY0908; EGU2007-A-09144; TS7.1-1TU4P-0908

Neubauer, F.; Genser, J.; Liu, Y.; Ren, S.

Basin-mountain coupling in transpressive settings: the North-Alpine front in Alps vs. the northeastern Tibet-Qaidam-Tarim system

TS7.2 Arc-continent collision orogens (including Stephan Mueller Medal Lecture) – Posters

Convener: Brown, D.

Co-Convener(s): Huang, C.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: BROWN, D.

XY0909; EGU2007-A-01142; TS7.2-1TU3P-0909

Brown, D.; Spadea, P.; Puchkov, V.; Alvarez-Marron, J.; Herrington, R.; Willner, A.P.; Hetzel, R.; Gorozhanina, Y.; Juhlin, C.

Arc-continent collision in the Southern Urals

XY0910; EGU2007-A-01270; TS7.2-1TU3P-0910

Brown, D.; Alvarez-Marron, J.; Her, D.J.

Structure of the Hsüehshan Range along the Tachiahs and Wuhsi river valleys, Taiwan

XY0911; EGU2007-A-01664; TS7.2-1TU3P-0911

Puchkov, V. N.

The Urals as a multi-collisional Orogen

XY0912; EGU2007-A-02491; TS7.2-1TU3P-0912

Yin, C.Q.; Zhao, G.C.; Sun, M.; Leung, W.H.

Metamorphic P-T path of the Qianlishan and Zhuozishan khondalites in the Western Block of the North China Craton and its tectonic implications

XY0913; EGU2007-A-02492; TS7.2-1TU3P-0913

Leung, W.H.; Zhao, G.C.; Sun, M.; Yin, C.Q.

Metamorphic evolution of the Helanshan Complex, western-most part of the Khondalite Belt in the Western Block of the North China Craton (cancelled)

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 15:30–17:00

Poster Area Halls X/Y

Chairperson: HUANG, C-Y.

XY0914; EGU2007-A-03057; TS7.2-1TU4P-0914

Huang, C. Y.; Chien, C. W.; Yao, B.; Chang, C. P.

The Lichi Mélange: a collision mélange formation along early arcward backthrusts during forearc basin closure, Taiwan arc-continent collision

XY0915; EGU2007-A-05102; TS7.2-1TU4P-0915
Lee, Y. H.; Chen, C. C.; Liu, T. K.; Ho, H. C.; Lu, H. Y.
Mountain Building Mechanisms in the Southern Central
Range of the Taiwan Orogenic Belt - from Accretionary
Wedge Deformation to Arc-Continental Collision

XY0916; EGU2007-A-05261; TS7.2-1TU4P-0916
Glen, R.; Meffre, S.; Crawford, A.; Scott, R.; Percival, I.
The Ordovician Macquarie Arc and its accretion to Gond-
wana

XY0917; EGU2007-A-05516; TS7.2-1TU4P-0917
Belova, A.A.; Dubinina, S.V.; Kuznetsov, N.B.; Ryazant-
sev, A.V.
Ordovician intra-oceanic convergence in the Paleozooids of
the Southern Urals

XY0918; EGU2007-A-05816; TS7.2-1TU4P-0918
Lu, C.Y.; Chan, Y.C.; Yeh, E.C.; Chang, K.J.; Lee, J.C;
Chu, H.T.
Temporal and spatial structural characteristics in the Taiwan
Slate Belt

XY0919; EGU2007-A-06876; TS7.2-1TU4P-0919
Samygin, S.G.; Sadovskaya, L.A.
Arc-continent collision in the Urals: Peculiarities in devel-
opment along the orogen strike

XY0920; EGU2007-A-03168; TS7.2-1TU4P-0920
Kukkonen, I.T.; Lauri, L.S.
Modelling the thermal evolution of a collisional Precam-
brian orogen: High heat production migmatitic granites of
southern Finland

TS7.3 Material transfer at convergent margins – Posters

Convener: Kukowski, N.
Co-Convener(s): Willett, S.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0921; EGU2007-A-05788; TS7.3-1TU3P-0921
Hindle, D.; Klaeschen, D.; Kopp, H
Tectonics of the Central Sunda margin accretionary prism
off western Java

XY0922; EGU2007-A-07255; TS7.3-1TU3P-0922
Fantoni, L.; Remitti, F.; Bettelli, G.; Panini, F.; Vannuc-
chi, P.; Carlini, M.; Pinter, T.
The transition from frontal accretion to frontal erosion:
evidence from a fossil subduction complex in the Northern
Apennines of Italy

Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 15:30–17:00

Poster Area Halls X/Y
Chairperson: N.N.

XY0923; EGU2007-A-07700; TS7.3-1TU4P-0923
Block, M.; Diaz-Naveas, J.; Kus, J.; Reichert, C.
Structural image of the north Chile subduction zone offshore
between 28°S and 33°S

XY0924; EGU2007-A-10511; TS7.3-1TU4P-0924
Kovacs, M.; Fulop, A.; Pecskey, Z.
Spatial and temporal evolution of metallogeny in connection
with convergent margins magmatism in Oas-Gutai and
Tibles Mts., Eastern Carpathians, Romania

TS7.5 The tectonics and dynamics of subduction: from shallow to deep processes – Posters

Convener: Phipps Morgan, J.
Co-Convener(s): Vannucchi, P.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0925; EGU2007-A-03746; TS7.5-1TU3P-0925
Sigmarsson, O.; Gill, J.; Holden, P.
U-series disequilibria in historical lavas from Izu-arc, Japan,
reflect the role of slab fluid during magma genesis

XY0926; EGU2007-A-01060; TS7.5-1TU3P-0926
Dmitrievsky, A.N.; **Balanyuk, I.E.;** Chaikina, O.N.
Hydrocarbon Fluids in Subduction Zones

XY0927; EGU2007-A-02103; TS7.5-1TU3P-0927
Pecher, I.; Henrys, S.; Crutchley, G.; Gorman, A.; Wood, W.;
Coffin, R.; Kukowski, N.
Seismic evidence for free gas in the regional gas hydrate
stability zone beneath an anticline on the Hikurangi margin,
New Zealand

XY0928; EGU2007-A-05883; TS7.5-1TU3P-0928
Barker, D.; **Sutherland, R.;** Bannister, S.; Toulmin, S.; Hen-
rys, S.; Reyners, M.; Pecher, I.; Uruski, C.; Maslen, G
Crustal structure along the Hikurangi margin subduction
system, North Island, New Zealand, from seismic reflection
imaging

XY0929; EGU2007-A-06615; TS7.5-1TU3P-0929
Schnabel, M.; Damm, V.; Franke, D.; Neben, S.
Effects of the subducting Investigator ridge, offshore In-
donesia

XY0930; EGU2007-A-06762; TS7.5-1TU3P-0930
Mueller, C.; Kopp, H.; Djajadihardja, Y. S.; Engels, M.;
Flueh, E. R.; Gaedicke, C.; Lueschen, E.; Soemantri, D.;
The SINDBAD Working Group
The Sunda-Banda Arc Transition - First results from recent
marine geophysical investigations offshore eastern Indonesia
(Part 1)

XY0931; EGU2007-A-09928; TS7.5-1TU3P-0931
Shulgin, A.; Planert, L.; Mueller, C.; Flueh, E.; Kopp, H;
Krabbenhoft, A.; Lueschen, E.; Yusuf, D; SINDBAD
Working Group, A
The Sunda-Banda Arc Transition - First results from recent
marine geophysical investigations offshore eastern Indonesia
(Part 2)

XY0932; EGU2007-A-09564; TS7.5-1TU3P-0932
Zillmer, M.; Klaeschen, D.; Kopp, H.; Flueh, E.R.; Greve-
meyer, I.; Krabbenhoft, A.; Papenberg, C.; Planert, L.;
Weinrebe, W.
Tomography of OBS data and prestack-depth migration of
MCS data from the Sumatra continental margin

XY0933; EGU2007-A-07010; TS7.5-1TU3P-0933
Kopp, H.; Weinrebe, W.; Ladage, S.; Barckhausen, U.;
Klaeschen, D.; Flueh, E.; Gaedicke, C.; Yusuf, M. D.;
Seacause and GITEWS Teams
Lower plate impact on earthquake rupture segmentation on
the Sumatra margin

XY0934; EGU2007-A-00648; TS7.5-1TU3P-0934
Schellart, W.P.
Global trench-migration velocities in different “absolute”
reference frames: Geodynamic constraints to find the
optimal reference frame

XY0935; EGU2007-A-00652; TS7.5-1TU3P-0935
Schellart, W.P.; Kennett, B.L.N.
 Prospecting the Southwest Pacific mantle for fossil slabs by using regional tectonic reconstructions, surface geology and seismic tomography

XY0936; EGU2007-A-00255; TS7.5-1TU3P-0936
Rodnikov, A.G.
 Ancient subduction zone in East Sakhalin

XY0937; EGU2007-A-07254; TS7.5-1TU3P-0937
Remitti, F.; Bettelli, G.; Vannucchi, P.
 Deformation in a subduction channel (1): anatomy of the shallow portion (T< 150°C) of an ancient analogue in the Northern Apennines of Italy

XY0938; EGU2007-A-03317; TS7.5-1TU3P-0938
Bachmann, R.; Glodny, J.; Oncken, O.
 Deformation in a Subduction Channel (2): Anatomy of the deeper Portion (T 150°C to 350°C) of an ancient Analogue in the Swiss Alps

XY0939; EGU2007-A-07614; TS7.5-1TU3P-0939
Raimbourg, H.; Jolivet, L.
 Eclogitization processes and consequences for high-pressure rocks exhumation

XY0940; EGU2007-A-05248; TS7.5-1TU3P-0940
Gorczyk, W.; Guillot, S.; Gerya, T.V.
 Contrasting origin and PT-paths of serpentinites in subduction channel melanges: insight from numerical modeling

XY0941; EGU2007-A-06875; TS7.5-1TU3P-0941
Hetenyi, G.; Cattin, R.; Vergne, J.; Bollinger, L.; Nabelek, J.; Diamant, M.
 Lateral variations of crustal thickness and eclogitization beneath the south-central part of the Tibetan Plateau from seismological constraints and gravity anomalies

XY0942; EGU2007-A-10889; TS7.5-1TU3P-0942
Robin, P.-Y.; Robin, C.
 Stress Trajectories in descending lithospheric Slabs and the consequent Water Cycle

XY0943; EGU2007-A-05352; TS7.5-1TU3P-0943
Hirauchi, K.
 Ductile deformation with new chrysotile recrystallization as blocky serpentinite: Constraints on slip styles of aseismic areas in subduction zones

XY0944; EGU2007-A-04865; TS7.5-1TU3P-0944
Hüpers, A.; Kopf, A.J.
 Compaction tests of deep sea sediments at elevated temperatures: implications for the mechanical properties of subducting sediments

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 15:30–17:00

TS Poster Area
 Chairperson: N.N.

TS8.4/GD06.1/GMPV16 Structure and Dynamics of Mid-Ocean Ridges (co-organized by GD & GMPV)

Convener: Briais, A.
 Co-Convener(s): Morris, A., FONTAINE, F., Chavagnac, V.
 Lecture Room 3
 Chairperson: N.N.

10:30–10:45; EGU2007-A-07622;
 TS8.4/GD06.1/GMPV16-1TU2O-001
Maia, M.; The PLURIEL Team
 New constraints on ridge-hotspot interactions from the PLURIEL cruise, Saint Paul-Amsterdam Plateau, Indian Ocean. (solicited)

10:45–11:00; EGU2007-A-03829;
 TS8.4/GD06.1/GMPV16-1TU2O-002
Hemond, C.; Kokfelt, T.F.
 Trace elemental and 226Ra-230Th-238U disequilibria data in 41–45°N Mid-Atlantic ridge basalts: Constraints on melting dynamics and implications for source heterogeneity

11:00–11:15; EGU2007-A-08998;
 TS8.4/GD06.1/GMPV16-1TU2O-003
Phipps Morgan, J.; Ranero, C. R.
 Estimating the width of the upwelling region at mid-ocean ridges from the effect of small-offset transforms on plume-influenced ridges: Implications for the dynamics of 'normal' and plume-influenced mid-ocean ridges (solicited)

11:15–11:30; EGU2007-A-06550;
 TS8.4/GD06.1/GMPV16-1TU2O-004
Drouin, M.; Godard, M.; Ildefonse, B.
 Origin of olivine-rich gabbroic rocks from the Atlantis Massif (MAR 30°N, IODP Hole U1309D) : petrostructural and geochemical study

11:30–11:45; EGU2007-A-05183;
 TS8.4/GD06.1/GMPV16-1TU2O-005
Granot, R.; **Abelson, M.;** Ron, H.; Agnon, A.
 Dynamic ridge-transform intersection (RTI) fossilized in the Troodos ophiolite: inferences from gabbro magnetism

11:45–12:00; EGU2007-A-03062;
 TS8.4/GD06.1/GMPV16-1TU2O-006
Combie, V.; Seher, T.; Singh, S.; Crawford, W.; Carton, H.; Cannat, M.; Escartin, J.
 Three-dimensional Geometry of Magma Chamber Roof and Faults from 3D Seismic Reflection Data at the Lucky Strike Volcano, Mid-Atlantic Ridge

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2007-A-05138;
 TS8.4/GD06.1/GMPV16-1TU3O-001
Belley, F.; **Ferré, E.C.;** Martín-Hernández, F.; Tikoff, B.; Maurizot, P.; Garrido, C.J.; Vauchez, A.
 Dr.Strain localization in the oceanic lithospheric mantle: the Humboldt shear zone of the New Caledonia ophiolite

13:45–14:00; EGU2007-A-08960;
 TS8.4/GD06.1/GMPV16-1TU3O-002
Morris, A.; Gee, J. S.; John, B. E.; Searle, R. C.; Tomi-naga, M.; Zhao, X.; MacLeod, C. J.
 Palaeomagnetic evidence from IODP Expedition 304/305 for the mode of accretion of slow-spreading rate lower oceanic crust (Atlantis Massif, Mid Atlantic Ridge, 30°N)

14:00–14:15; EGU2007-A-02557;
 TS8.4/GD06.1/GMPV16-1TU3O-003
Singh, S.C.
 Axial magma chambers, hydrothermal circulation, and faulting at ocean spreading centres (solicited)

14:15 END OF SESSION

TS8.5/GD06.2/GMPV17 Tracing hydrothermal circulation at Mid-ocean ridges using geochemistry, geophysics and modelling

Convener: Chavagnac, V.
 Co-Convener(s): FONTAINE, F., Briais, A., Morris, A.
 Lecture Room 3
 Chairperson: N.N.

14:15–14:30; EGU2007-A-07710;
TS8.5/GD06.2/GMPV17-1TU3O-004
Villinger, H.
Heat flow at mid-ocean ridges and ridge flanks: methods and challenges (solicited)

14:30–14:45; EGU2007-A-09842;
TS8.5/GD06.2/GMPV17-1TU3O-005
Pedersen, R.B.; Thorseth, I.H.; Knudsen, H.P.; Schander, C.; Butterfield, D.; Lilley, M.; Ona, E.; Økland, I.; Hellevang, B.; Hellevang, H.
The 71N vent fields at the Arctic Mid-Ocean Ridge (solicited)

14:45–15:00; EGU2007-A-10097;
TS8.5/GD06.2/GMPV17-1TU3O-006
Schmidt, K.; Koschinsky, A.; Garbe-Schönberg, D.; Seifert, R.; Strauss, H.
Four high-temperature hydrothermal systems in different geological settings at the MAR: Competitive influences of temperature, rock composition, and phase separation on the fluid geochemistry

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-10057;
TS8.5/GD06.2/GMPV17-1TU4O-001
Seewald, J.; Reeves, E.; Saccocia, P.; Rouxel, O.; Walsh, E.; Craddock, P.; Tivey, M. A.; Bach, W.; Tivey, M. K.
Tracing styles of hydrothermal circulation in Manus Basin using vent fluid composition

15:45–16:00; EGU2007-A-09110;
TS8.5/GD06.2/GMPV17-1TU4O-002
Konn, C.; Charlou, J.L.; Donval, J.P.; Holm, N.G.; Bouillon, S.; Dehairs, F.
Fluids from ultramafic-hosted hydrothermal systems of the Mid-Atlantic Ridge - Organics and Life.

16:00–16:15; EGU2007-A-06281;
TS8.5/GD06.2/GMPV17-1TU4O-003
Chavagnac, V.; Monnin, C.
Where can we find anhydrite in the marine environment?

16:15–16:30; EGU2007-A-04009;
TS8.5/GD06.2/GMPV17-1TU4O-004
Fontaine, F.; Cannat, M.; Escartin, J.; Dusunur, D.; Singh, S.
The thermal structure of mid-ocean ridges and the dynamics of hydrothermal circulation

16:30–16:45; EGU2007-A-02386;
TS8.5/GD06.2/GMPV17-1TU4O-005
Seher, T.; Crawford, W.; Singh, S.; Cannat, M.; Combier, V.; Carton, H.
Seismic velocity structure of the upper oceanic crust beneath the Lucky Strike hydrothermal vent ﬁeld (37.3°N Mid-Atlantic Ridge)

16:45–17:00; EGU2007-A-09864;
TS8.5/GD06.2/GMPV17-1TU4O-006
Boschi, C.; Dini, A.; Früh-Green, G. L.; Kelley, D. S.
Isotopic and element exchange during serpentinization and metasomatism

17:00 END OF SESSION

Medal Lectures

ML06 Vilhelm Bjerknes Medal Lecture

Convener: Pöschl, U.
Lecture Room 28 (B)
Chairperson: PÖSCHL, U.

19:00–20:00; EGU2007-A-06702; ML06-1TU6O-001
Kulmala, M.
Atmospheric Nucleation and its relationships to Biosphere - Atmosphere Interactions (Vilhelm Bjerknes Medal Lecture) (solicited)

20:00 END OF SESSION

ML12 Vening Meinesz Medal Lecture

Convener: Van Dam, T.
Lecture Room 15 (F2)
Chairperson: VAN DAM, T.

19:00–20:00; EGU2007-A-11604; ML12-1TU6O-001
Herring, T.
Geodesy with temporal scales from seconds to decades and on spatial scales of meters to global (Vening Meinesz Medal Lecture) (solicited)

20:00 END OF SESSION

ML13 Augustus Love Medal Lecture

Convener: Vermeersen, B.
Lecture Room 4 (H)
Chairperson: VERMEERSEN, B.

19:00–20:00; EGU2007-A-11640; ML13-1TU6O-001
Gubbins, D.; Sreenivasan, B.; Willis, A.P.
Locking the Geodynamo to the Mantle and Implications for Core Dynamics (solicited)

20:00 END OF SESSION

ML14 John Dalton Medal Lecture

Convener: Blöschl, G.
Lecture Room 30 (C)
Chairperson: BLÖSCHL, G.

18:30–19:30; EGU2007-A-11062; ML14-1TU6O-001
Wood, E. F.
The next frontier for hydrology: using satellite remote sensing to understand the global water cycle (John Dalton Medal Lecture) (solicited)

19:30 END OF SESSION

ML16 Louis Néel Medal Lecture

Convener: Valet, J.
Lecture Room 5 (I)
Chairperson: VALET, J.

19:00–20:00; EGU2007-A-06170; ML16-1TU6O-001
Heller, F.
Aeolian Dust - Gift from the Gods or Curse from Hell? (Louis Néel Medal Lecture) (solicited)

20:00 END OF SESSION

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IG – Isotopes in Geosciences: Instrumentation and Applications	/
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PS – Planetary and Solar System Sciences	434
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SC – EGU Short Courses	/
F – Forums	/

MEETING PROGRAMME

WEDNESDAY

Union Symposia

US1 Union Award Presentations and Medal Lectures

Convener: Ludden, J.
Lecture Room D
Chairperson: LUDDEN, J.

17:30–17:35 Global congratulation to medallists

17:35–17:45 Congratulations to Young Scientists' Outstanding Poster Paper Awardees

17:45–17:55 Contratulations to the Outstanding Young Scientist Awardees

17:55–18:25; EGU2007-A-01535; US1-1WE5O-004
Boutron, C.F.

Anthropogenic heavy metals in polar and alpine snow and ice: from the antiquity to present (Alfred Wegener Medal Lecture) (solicited)

18:25–18:30 Questions

18:30–19:00; EGU2007-A-06818; US1-1WE5O-006
Jaupart, C.

Dynamics of continental lithosphere (Arthur Holmes Medal Lecture) (solicited)

19:00–19:05 Questions

19:05 END OF SESSION

Educational Symposia

ES1 GIFT Workshop: Geosciences in the City

Convener: Laj, C.
Co-Convener(s): Cifelli, F., Funicciello, F.
Lecture Room 9 (P)
Chairperson: N.N.

Chairperson: N.N.

ES2 ECORD Teachers Workshop: Exploring the Ocean Floor with the Integrated Ocean Drilling Program

Convener: Arnold, E.
Lecture Room 9 (P)
Chairperson: N.N.

Chairperson: N.N.

Atmospheric Sciences

AS1.01 Dynamical Meteorology (General Session)

Convener: Schwierz, C.
Co-Convener(s): Gray, S.
Lecture Room 10 (E1)
Chairperson: METHVEN, J.

8:30–8:45; EGU2007-A-05539; AS1.01-1WE1O-001
Kolstad, E. W.; Kristjansson, J. E.; Barstad, I.; Sorteberg, A.; Sætra, Ø.
Polar lows and Arctic fronts: mesoscale weather systems at high latitudes (solicited)

8:45–9:00; EGU2007-A-04033; AS1.01-1WE1O-002
Rivière, G.; Joly, A.

Identification of regions of rapid cyclone development from the large-scale flow properties (solicited)

9:00–9:15; EGU2007-A-01374; AS1.01-1WE1O-003
Schultz, D. M.; Zhang, F.

Baroclinic development within zonally varying flows

9:15–9:30; EGU2007-A-04296; AS1.01-1WE1O-004
Wernli, H.

Dynamical analysis of 5-day ECMWF forecast busts over Central Europe

9:30–9:45; EGU2007-A-00335; AS1.01-1WE1O-005
Yano, J. I.

Large-scale tropical atmospheric dynamics: waves or balance?

9:45–10:00; EGU2007-A-04736; AS1.01-1WE1O-006
Pan, L

Observational study of the extratropical tropopause

10:00 END OF SESSION

AS1.01 Dynamical Meteorology (General Session) – Posters

Convener: Schwierz, C.
Co-Convener(s): Gray, S.
Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 10:30–12:00

Poster Area Halls X/Y
Chairperson: SCHULTZ, D.

XY0001; EGU2007-A-00662; AS1.01-1WE2P-0001
Moiseenko, K.B.

The effects of the tropopause on nonlinear hydrostatic mountain waves

XY0002; EGU2007-A-01360; AS1.01-1WE2P-0002

Álvarez, L; Vernière, R; **Cana, L;** Grisolia-Santos, D
The influence of the island of La Palma on the genesis of storms at Tenerife

XY0003; EGU2007-A-01359; AS1.01-1WE2P-0003

Álvarez, L; Vernière, R; **Cana, L;** Grisolia-Santos, D
Lee waves at the island of Tenerife during the tropical storm Delta

XY0004; EGU2007-A-06088; AS1.01-1WE2P-0004
Jaeger, E. B.; Sprenger, M.

A northern-hemispheric climatology of indices for clear air turbulence in the tropopause region derived from ERA40 re-analysis

XY0005; EGU2007-A-06515; AS1.01-1WE2P-0005
Weidle, F.; Wernli, H.

The Sting Jet Hypothesis: A Case Study with the Local Model

XY0006; EGU2007-A-09400; AS1.01-1WE2P-0006

Ágústsson, H.; Cuxart, J.; Mira, A.; **Ólafsson, H.**
Simulating katabatic flow in Iceland

Mon

Tue

Wed

Thu

Fri

XY0007; EGU2007-A-09982; AS1.01-1WE2P-0007

Ólafsson, H.; Ágústsson, H.

The Freysnes downslope windstorm – a warm bora

XY0008; EGU2007-A-09874; AS1.01-1WE2P-0008

Trachte, K.; Nauss, Th.; Rollenbeck, R.; Bendix, J.

Dynamical interactions between katabatic flows and the SALLJ - first Results from a Case Study in a Tropical Mountain Rain Forest Region in southern Ecuador

XY0009; EGU2007-A-06774; AS1.01-1WE2P-0009

Methven, J.; Berrisford, P.

Wave-mean flow interaction throughout a baroclinic wave life cycle

XY0010; EGU2007-A-04316; AS1.01-1WE2P-0010

Wernli, H.; Boettcher, M.

Moisture sources of warm conveyor belts

XY0011; EGU2007-A-03203; AS1.01-1WE2P-0011

Knippertz, P.; Martin, J. E.; Wernli, H.

Moisture Conveyor Belts – A Possible Link between Tropical Moisture and Extratropical Precipitation

XY0012; EGU2007-A-05902; AS1.01-1WE2P-0012

Ivus, G.; **Grushevskiy, O.;** Efimov, V.; Ivanov, S.

Upon the role of Kelvin waves in formation of blocking events over the Eastern Europe

XY0013; EGU2007-A-06591; AS1.01-1WE2P-0013

Isotta, F.; Martius, O.; Sprenger, M.; **Schwierz, C.**

Trend analyses of the frequency in stratospheric and tropospheric PV-streamers over the ERA-40 period

XY0014; EGU2007-A-01488; AS1.01-1WE2P-0014

Twitchett, A.; Schwierz, C.

Identification of precursor Rossby waves and their triggers for a PV streamer climatology.

XY0015; EGU2007-A-10703; AS1.01-1WE2P-0015

Bourqui, M.; Moustabchir, R.

Stratosphere-troposphere exchange - a random walk process?

XY0016; EGU2007-A-03045; AS1.01-1WE2P-0016

Nieto, R.; Gimeno, L.; **Lorenzo, N.;** Trigo, R.

Predictability of cut-off low systems occurrence using reforecasts

XY0017; EGU2007-A-06890; AS1.01-1WE2P-0017

van Leeuwen, V.; Manders, A.; Verkley, W.; Moene, A.; Tijn, A.; van Delden, A.

Cut-off cyclone formation resulting from merging potential vorticity anomalies

XY0018; EGU2007-A-08950; AS1.01-1WE2P-0018

Charlton, A.J.; O'Neill, A.

Dynamical Timescales Near the Tropopause

XY0019; EGU2007-A-05094; AS1.01-1WE2P-0019

Lisovods'ky, V.V.; **Lisovods'ka, N.G.;** Kucherenko, N.V.; Kapochkin, B.B.

Paradigm of influence of heat-mass-exchange the lithosphere on hydrosphere and atmosphere in the seaside

XY0020; EGU2007-A-00790; AS1.03-1WE3P-0020

Harikumar, R.; Sampath, S.; Sasi Kumar, V.

An extensive study on Rain DSD over tropical stations in Peninsular India using a J-W Disdrometer

XY0021; EGU2007-A-02358; AS1.03-1WE3P-0021

Klepp, C.

HOAPS-3 over ocean solid precipitation detection validated against LOFZY 2005 in-situ data and its comparison to other satellite products

XY0022; EGU2007-A-02481; AS1.03-1WE3P-0022

Zhang, Z.; Gao, G.

Extreme heavy rainfall days in China: 1951-2005

XY0023; EGU2007-A-02576; AS1.03-1WE3P-0023

Caracciolo, C.; Porcu', F.; Prodi, F.

Precipitation classification at mid-latitudes in terms of drop size distribution parameters

XY0024; EGU2007-A-02633; AS1.03-1WE3P-0024

t.x. Kieu, t.x.K.; t.h. Vu, t.h.V; d. Le, d. L

Rainfall forecast with improved high resolution regional Model-hrm & verification results in Vietnam

XY0025; EGU2007-A-02648; AS1.03-1WE3P-0025

Morata, A.; Martin, M.L.; Sotillo, M. G.; Valero, F.; Luna, Y.

Iberian autumn precipitation characterization through observed, simulated and reanalysed data

XY0026; EGU2007-A-02738; AS1.03-1WE3P-0026

Männik, A.; Merilain, M.

Verification of different precipitation forecasts during extended winter-season in Estonia

XY0027; EGU2007-A-02446; AS1.03-1WE3P-0027

Alaghmand, S.; **Mohammadi, A.;** Mosaedi, A.

Assessment the efficiency of different interpolation methods for estimation of missing rainfall data (A case study in Iran, Golestan province)

XY0028; EGU2007-A-02828; AS1.03-1WE3P-0028

Steinsland, I.

A method for spatial calibration of precipitation forecasts

XY0029; EGU2007-A-03101; AS1.03-1WE3P-0029

Lucio, P. S.

Bootstrap for statistical evaluation of small sample inference for precipitation extreme quantiles.

XY0030; EGU2007-A-03620; AS1.03-1WE3P-0030

Bihari, Z.; Szentimrey, T.; **Lakatos, M.;** Szalai, S.

Verification of radar precipitation measurements with interpolated surface data

XY0031; EGU2007-A-04349; AS1.03-1WE3P-0031

Lorente, P.; Hernández, E.; **Queralt, S.**

Atmospheric instability analysis, lagrangian particle simulation of humidity content and synoptic context leading to the November 1997 MCS in Badajoz, Spain

XY0032; EGU2007-A-04685; AS1.03-1WE3P-0032

Tokay, A.; Bashor, P. G.

An Experimental Study of Small-Scale Variability of Rain-drop Size Distribution

XY0033; EGU2007-A-04767; AS1.03-1WE3P-0033

Michaelides, S.C.; Savvidou, K.; Nicolaidis, K.A.; Orphanou, A.

Synoptic and thermodynamic study of severe hail events over the area of Cyprus

XY0034; EGU2007-A-05028; AS1.03-1WE3P-0034

Nastos, P.T.; Zerefos, C.S.

Decadal changes in daily precipitation totals in Greece

AS1.03 Observation, Prediction and Verification of Precipitation (General Session) (co-listed in HS) – Posters

Convener: Michaelides, S.

Co-Convener(s): Amitai, E., Wernli, H.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: AMITAI, E., MICHAELIDES, S., WERNLI, H.

XY0035; EGU2007-A-05026; AS1.03-1WE3P-0035
Hatzaki, M.; **Lingis, P.**; Flocas, H.; Michaelides, S.; Oikonomou, C.
The impact of an Upper Troposphere Teleconnection Pattern on precipitation extremes over Cyprus

XY0036; EGU2007-A-05251; AS1.03-1WE3P-0036
Pashiardis, S.; **Michaelides, S.C.**
Analysis of precipitation in Cyprus for trends or changes

XY0037; EGU2007-A-05445; AS1.03-1WE3P-0037
Yaqub, A.; Seibert, P.
Diurnal precipitation patterns over Austria

XY0038; EGU2007-A-05622; AS1.03-1WE3P-0038
Bach, D.; Lerner-Lam, A.
Characterizing spatial rainfall patterns in Puerto Rico for natural hazard analysis

XY0039; EGU2007-A-05741; AS1.03-1WE3P-0039
Hossain, F.; Huffman, G.
Investigating the Multi-dimensional Error Structure of Satellite Rainfall at Hydrologically Relevant Scales

XY0040; EGU2007-A-06162; AS1.03-1WE3P-0040
Lanza, L.G.; Stagi, L.
Certified accuracy, standards and calibration in precipitation measurements

XY0041; EGU2007-A-06314; AS1.03-1WE3P-0041
Crewell, S.; Reinhardt, T.; Mech, M.; **Pospichal, B.**
General Observation Period within priority program "Quantitative Precipitation Forecast"

XY0042; EGU2007-A-06681; AS1.03-1WE3P-0042
Jurczyk, A.; Osrodka, K.; **Szturc, J.**
Evaluation of NIMROD precipitation nowcasting

XY0043; EGU2007-A-06882; AS1.03-1WE3P-0043
Del Hoyo, J.; Fernández, A.; Mestre, A.; Peral, C.
Postprocess activities related to precipitation forecast at the National Institute of Meteorology of Spain

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 15:30–17:00

Poster Area Halls X/Y
Chairperson: WERNLI, H. AMITAI, E., MICHAELIDES, S.

XY0044; EGU2007-A-07101; AS1.03-1WE4P-0044
Anagnostopoulou, Chr.; Tolika, K.; Maheras, P.; Reiser, H.; Kutiel, H.
An Introduction to a new precipitation uncertainty index over the Eastern Mediterranean.

XY0045; EGU2007-A-07258; AS1.03-1WE4P-0045
Bousquet, O.; Lin, C.; Zawadzki, I.
Analysis of the scale dependence of QPF verification from operational radar data

XY0046; EGU2007-A-05210; AS1.03-1WE4P-0046
Barentsen, G.; Dehem, D.; Tricot, C.
Semi-automatic error detection in hourly precipitation measurements using a Naive Bayes Classifier

XY0047; EGU2007-A-07716; AS1.03-1WE4P-0047
Claussnitzer, A.; **Langer, I.**; Nevir, P.; Reimer, E.
Process-oriented statistic dynamical evaluation of LM precipitation forecasts

XY0048; EGU2007-A-07931; AS1.03-1WE4P-0048
Rögnvaldsson, Ó.; Bao, J.-W.; **Ólafsson, H.**
High-resolution simulations of orographic precipitation – sensitivity tests

XY0049; EGU2007-A-07948; AS1.03-1WE4P-0049
Ament, F.; Arpagaus, M.
Contributions of the mesoscale model COSMO-2 to the forecast demonstration experiment MAP D-PHASE

XY0050; EGU2007-A-07957; AS1.03-1WE4P-0050
Teschl, F.; Randeu, W. L.; Schönhuber, M.; Teschl, R.
Simulation of polarimetric radar variables in rain at S-, C- and X-band wavelengths

XY0051; EGU2007-A-08009; AS1.03-1WE4P-0051
Starosta, K.; Linkowska, J.
The experiment with QPF (Quantitative Precipitation Forecast) in Poland.

XY0052; EGU2007-A-08407; AS1.03-1WE4P-0052
Lambert, D.; Argence, S.
Study of an intense rainfall episode in Corsica

XY0053; EGU2007-A-08689; AS1.03-1WE4P-0053
Gallus, W. A.; Pfeifer, M.; Craig, G. C.
Intercomparison of simulations using 4 WRF microphysical schemes with dual-polarization data for a German squall line

XY0054; EGU2007-A-09009; AS1.03-1WE4P-0054
Capacci, D.; Porcu', F.
Statistical precipitation estimation from SEVIRI data and validation procedures by using U.K. weather radar

XY0055; EGU2007-A-09271; AS1.03-1WE4P-0055
Todini, G.; Surussavadee, C.; Rizzi, R.; Rosenkranz, P.W.; Staelin, D.H.
Improving snowfall-rate retrievals over ice and snow surfaces

XY0056; EGU2007-A-09310; AS1.03-1WE4P-0056
Llort, X.; Berenguer, M.; Sempere-Torres, D.; Zawadzki, I.
A comparison of precipitation downscaling methods

XY0057; EGU2007-A-10064; AS1.03-1WE4P-0057
Fiser, O.; Wilfert, O.
Estimation of optical wireless link attenuation based on rain rate and visibility measurement in Czech Republic

XY0058; EGU2007-A-10621; AS1.03-1WE4P-0058
Calheiros, R.; **Antonio, M.**
Radar-satellite retrieval of cell structure: impact of Tb-Z relationships

XY0059; EGU2007-A-10705; AS1.03-1WE4P-0059
Arason, T.; **Ólafsson, H.**; Rögnvaldsson, Ó.
Evaluation of dynamic downscaling of precipitation in the complex terrain of Iceland

XY0060; EGU2007-A-09061; AS1.03-1WE4P-0060
Lorenz, P.; Jacob, D.; Goettel, H.; Kotlarski, S.; Krahe, P.; Richter, K.-G.; Sieck, K.
Validation of high-resolution precipitation fields as simulated by the regional climate model REMO

XY0061; EGU2007-A-10821; AS1.03-1WE4P-0061
Tøfte, L.S.
Conditional simulation of distributed rainfall

XY0062; EGU2007-A-10982; AS1.03-1WE4P-0062
Mesinger, F.
Bias adjusted precipitation threat scores (solicited)

XY0063; EGU2007-A-04992; AS1.03-1WE4P-0063
Lingis, P.; Thompson, R.; Michaelides, S.
Relationship between the Siberian High and rainfall over Cyprus

XY0064; EGU2007-A-11115; AS1.03-1WE4P-0064
Peterzoli, A.; Stevenson, D.; Vieno, M.; **Michaelides, S.**
Simulations of atmospheric precipitation in the UK using MM5

XY0065; EGU2007-A-03733; AS1.03-1WE4P-0065

Friederichs, P.; Hense, A.

A probabilistic forecast approach for (extreme) daily precipitation totals applied to GFS 6h forecasts

XY0066; EGU2007-A-00326; AS1.03-1WE4P-0066

Queralt, S.; Hernández, E.; Lorente, P.

The case of October 1982 mesoscale convective system in Tous (Spain): back-trajectories analysis from lagrangian particle simulation of the heavy rain episode

XY0067; EGU2007-A-07880; AS1.03-1WE4P-0067

Lanciani, A.; Mariani, S.; Casaioli, M.; Accadia, C.; Tartaglione, N.

A multiscale approach for precipitation verification applied to the FORALPS case studies

AS1.09 The tropical tropopause region

Convener: Schiller, C.

Co-Convener(s): Schlager, H., Pommereau, J., Vaughan, G.
Lecture Room 10 (E1)

Chairperson: SCHLAGER, H.

10:30–10:45; EGU2007-A-00633; AS1.09-1WE2O-001

Khaykin, S.; Korshunov, L.; Pommereau, J.-P.; Yushkov, V.; Nielsen, J.; Christensen, T.; Larsen, N.

Water vapour in the lower stratosphere above overshooting continental convective systems from balloon observations during SCOUT-AMMA.

10:45–11:00; EGU2007-A-02292; AS1.09-1WE2O-002

dos Santos, F.H.S.; Schiller, C.; Konopka, P.; Kraemer, M.; Spelten, N

Water and relative humidity in the TTL

11:00–11:15; EGU2007-A-07279; AS1.09-1WE2O-003

Vömel, H.; Hasebe, F.; Shiotani, M.; Fujiwara, M.; Shibata, T.; Ogino, S.; Nishi, N.; Saraspriya, S.; Komala, N.

Overview over the SOWER campaigns 2006 and 2007: Dehydration and transport in the tropical tropopause layer and lower stratosphere during the boreal winter

11:15–11:30; EGU2007-A-08400; AS1.09-1WE2O-004

Jensen, E.; the CRAVE team, N.; the CRAVE team

Large (100 microns) ice crystals and high supersaturations observed near the tropical tropopause during CRAVE

11:30–11:45; EGU2007-A-08845; AS1.09-1WE2O-005

Brunner, D.; Peter, T.; Schiller, C.; Krebsbach, M.; Sitnikov, N. M.; Mezrin, M. Y.

Large fluctuations of tropopause moisture over the Maritime Continent induced by a Kelvin wave during the SCOUT-O3 campaign in Darwin, Australia

11:45–12:00; EGU2007-A-10414; AS1.09-1WE2O-006

Bonazzola, M.; Legras, B.; James, R.; Fueglistaler, S.

A sensitivity study of dehydration at the tropical tropopause to the representation of vertical transport in trajectory calculations

12:00–12:15; EGU2007-A-09506; AS1.09-1WE2O-007

Connolly, P.; May, P.T.; Vaughan, G.; Allen, G

Influence of aerosols on deep convection

12:15 LUNCH BREAK

Chairperson: VAUGHAN, G.

13:30–13:45; EGU2007-A-08307; AS1.09-1WE3O-001

Kunze, M.; E5M-Darwin-eval TEAM

Comparison of SCOUT-O3 Darwin campaign measurements with results from a global chemistry-climate model along flight tracks

13:45–14:00; EGU2007-A-10542; AS1.09-1WE3O-002

Volk, C. M.; Baehr, J.; Homan, C.; Kuhn, A. C.; Werner, A.; Viciani, S.; Mazzinghi, P.; Ulanovski, A.; Ravegnani, F.

Airborne in situ Observations in the tropical UTLS over West Africa: First Results and Implications for Trace Gas Transport

14:00–14:15; EGU2007-A-02440; AS1.09-1WE3O-003

Chaboureaud, J.-P.; Cammas, J.-P.; Duron, J.; Mascart, P. J.; Sitnikov, N. M.; Voessing, H.-J.

A numerical study of tropical cross-tropopause transport by convective overshoots during the TROCCINOX golden day

14:15–14:30; EGU2007-A-09854; AS1.09-1WE3O-004

Pommereau, J. P.; Held, G.

How deep land convective overshooting can penetrate the stratosphere?

14:30–14:45; EGU2007-A-11013; AS1.09-1WE3O-005

Pickering, K.; Huntemann, T.; Ott, L.; Barth, M.; Huntrieser, H.; Schlager, H.; Schumann, U.; Vaughan, G.; Volz-Thomas, A

Cloud-resolved simulations of Lightning NO_x in Observed Tropical Thunderstorms

14:45–15:00; EGU2007-A-08714; AS1.09-1WE3O-006

Hrechanyy, S.; von Hobe, M.; Groöf, J.-U.; Konopka, P.; Günther, G.; Müller, R.; Stroh, F.

The Budget of Halogen Compounds in the tropical UTLS

15:00–15:15; EGU2007-A-03273; AS1.09-1WE3O-007

Laube, J.; Engel, A.; Bönsch, H.; Möbius, T.; Dorf, M.; Pfeilsticker, K.; Schmidt, U.

Comparison of the stratospheric chlorine and bromine loading in tropic and mid-latitudes derived from balloon-born observations

15:15 END OF SESSION

AS1.10 Dynamics and chemistry of atmospheric moist convection

Convener: Yano, J.

Co-Convener(s): Donner, L., Mari, C.

Lecture Room 12 (E2)

Chairperson: MARI, C.

13:30–14:00; EGU2007-A-01767; AS1.10-1WE3O-001

Woolnough, S.J.; Slingo, J.M.; Inness, P.M.

Progress in Understanding and Simulating the MJO (solicited)

14:00–14:30; EGU2007-A-05858; AS1.10-1WE3O-002

Tomita, H.; Nasuno, T.; Miura, H.; Iga, S.; Noda, A.; Tsushima, Y.; Satoh, M.

Several global cloud resolving simulations by NICAM on the Earth Simulator (solicited)

14:30–15:00; EGU2007-A-09235; AS1.10-1WE3O-003

Formenti, P.; THE AMMA-DUST-CONVECTION TEAM
Mineral dust emissions by convective systems: observations and modelling in the framework of the AMMA project (solicited)

15:00–15:15 Poster Introduction

15:15 END OF SESSION

AS1.10 Dynamics and chemistry of atmospheric moist convection – Posters

Convener: Yano, J.

Co-Convener(s): Donner, L., Mari, C.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 15:30–17:00

Poster Area Halls X/Y

Chairperson: FORMENTI, P.

XY0068; EGU2007-A-04729; AS1.10-1WE4P-0068

Matsuki, A.; Schwarzenboeck, A.; Venzac, H.; Laj, P.; Laurent, O.; Momboisse, G.; Crumeyrolle, S.; Gomes, L.; Bourrienne, T.

Mixing states and hygroscopicity of aerosol particles in West Africa: Based on AMMA aircraft campaign in summer 2006

XY0069; EGU2007-A-10657; AS1.10-1WE4P-0069

Bouet, C.; Cautenet, G.; Marticorena, B.; Bergametti, G.; Desboeufs, K.; Formenti, P.; Rajot, J.-L.; Cairo, F.

Effect of an African squall line on desert dust cycle: a case study during AMMA 2006

XY0070; EGU2007-A-04926; AS1.10-1WE4P-0070

Huntrieser, H.; Schlager, H.; Roiger, A.; Lichtenstern, M.; Schumann, U.; Kurz, C.; Brunner, D.; Schwierz, C.; Richter, A.; Stohl, A.

The lifecycle of a mesoscale convective system (MCS) over South America: Airborne chemical measurements and trajectory analyses during TROCCINOX

XY0071; EGU2007-A-07144; AS1.10-1WE4P-0071

Orlandi, E.; **Fierli, F.;** Davolio, S.; Cairo, F.; Didon-francesco, G.

Simulation of continental convection and tracer transport in the tropical upper troposphere

XY0072; EGU2007-A-01072; AS1.10-1WE4P-0072

Donner, L.; Ming, Y.; Golaz, C.

Convective dynamics and aerosol-cloud interactions

XY0073; EGU2007-A-09469; AS1.10-1WE4P-0073

Yu, J.; Fiolleau, T.; Grandpeix, JY; Roca, R

Parametrization and observation of the orographic triggering of deep convection over West Africa

XY0074; EGU2007-A-00341; AS1.10-1WE4P-0074

Yano, J.I.

Towards A compressed Super-Parameterization

XY0075; EGU2007-A-01146; AS1.10-1WE4P-0075

Kuell, V.; Gassmann, A.; Bott, A.

A hybrid and nonlocal convection parameterisation scheme for nonhydrostatic NWP models

XY0076; EGU2007-A-06181; AS1.10-1WE4P-0076

Molini, L.; **Parodi, A.;** Reinhardt, T.

Study of the shape of rain cell through high resolution numerical simulations with Cosmo Model

XY0077; EGU2007-A-08810; AS1.10-1WE4P-0077

Davies, L.; Plant, R; Derbyshire, S

Limitations of the Equilibrium Assumption Between Convection and the Forcing

XY0078; EGU2007-A-10780; AS1.10-1WE4P-0078

Wagner, T. M.; Graf, H.-F.

A convective cloud field model with a contemporary microphysics containing aerosol effects

XY0079; EGU2007-A-03844; AS1.10-1WE4P-0079

Russell, A.; Vaughan, G.

The significance of upper-level features during the Convective Storm Initiation Project (CSIP)

XY0080; EGU2007-A-01491; AS1.10-1WE4P-0080

TEITELBAUM, H.; Le Treut, H.; Moustou, M.; Cabrera, G.; Ibanez, G.

Deep convection east of the Andes Cordillera: test case analysis of air mass origine.

XY0081; EGU2007-A-00339; AS1.10-1WE4P-0081

Yano, J. I.

Madden-Julian Oscillation: oscillating or balanced?

AS1.12/ST15 Joint Session of the MLT and the CAUSES program (co-organized by ST)

Convener: Lübken, F.

Co-Convener(s): Gray, L., Oberheide, J., Preusse, P., Ward, W.

Lecture Room 12 (E2)

Chairperson: LÜBKEN, F.-J.

15:30–15:45; EGU2007-A-02012; AS1.12/ST15-1WE4O-001

Remsberg, E.

Solar cycle effects and trends in mesospheric temperatures from HALOE in both altitude and pressure coordinates

15:45–16:00; EGU2007-A-01576; AS1.12/ST15-1WE4O-002

Mlynczak, M.; Martin-Torres, F.; Marshall, B.; Thompson, R.; Williams, J.; Turpin, T.; Kratz, D.; Russell, J.; Woods, T.; Gordley, L.

Solar cycle influence on the infrared energy budget of the thermosphere

16:00–16:15; EGU2007-A-02439; AS1.12/ST15-1WE4O-003

Mayr, H.; Mengel, J; Huang, F

The QBO as potential amplifier and conduit to lower altitudes of solar cycle influence (solicited)

16:15–16:30; EGU2007-A-00215; AS1.12/ST15-1WE4O-004

Kubin, A.; Langematz, U.; Nissen, K.; Matthes, K.; Jöckel, P.

A model study on the stratospheric and tropospheric response to the 11-year solar signal

16:30–16:45; EGU2007-A-07535; AS1.12/ST15-1WE4O-005

Espy, P.; Faloon, K.; Stegman, J.; Forkman, P.; Murtagh, D.

Solar influence on hydroxyl chemistry near the mesopause

16:45–17:00; EGU2007-A-08542; AS1.12/ST15-1WE4O-006

Versick, S.; Glatthor, N.; Stiller, G.; Reddmann, T.; Ruhnke, R.

Stratospheric hydrogen peroxide (H₂SO₂) retrievals from MIPAS/ENVISAT for the episode of the October/November 2003 solar proton event

17:00–17:15; EGU2007-A-04751; AS1.12/ST15-1WE4O-007

Rama Rao, P.V.S.; Tulasi Ram, S; Prasad, DSVVD; Niranjan, K

Response of Indian equatorial ionosphere-thermosphere system (EITS) to moderate geomagnetic storms

17:15 END OF SESSION

AS1.15 Aerosol-Precipitation Interactions

Convener: Andreae, M.
Co-Convener(s): Lohmann, U., Rosenfeld, D.
Lecture Room 10 (E1)
Chairperson: N.N.

15:30–15:45; EGU2007-A-01148; AS1.15-1WE4O-001
Graf, H.F.; Yang, J.; Wagner, T.M.
Effects of smoke from peat burning in Indonesia on precipitation over the warm pool area

15:45–16:00; EGU2007-A-01649; AS1.15-1WE4O-002
Tao, W.-K.; Li, X.; Khain, A.; Johnson, D.; Simpson, J.
The role of atmospheric aerosols on precipitation processes

16:00–16:15; EGU2007-A-08702; AS1.15-1WE4O-003
Leroy, D.; Wobrock, W.; Flossmann, A.; Chapon, B.; Boudevillain, B.; Delrieu, G
The role of aerosol particles on precipitation and ice phase processes: observations versus 3D simulation with bin microphysics for convective cloud systems over southern France

16:15–16:30; EGU2007-A-08860; AS1.15-1WE4O-004
Connolly, P.; **Choulaton, T.W.;** Bower, K.N.; Vaughan, G.
The influence of aerosol on precipitation formation in deep tropical convection

16:30–16:45; EGU2007-A-08883; AS1.15-1WE4O-005
Noppel, H.; Blahak, U.; Beheng, K.D.
Cloud resolving simulations of a severe hailstorm: influence of CCN conditions

16:45–17:00; EGU2007-A-10664; AS1.15-1WE4O-006
Metzger, S.; Lelieveld, J.; Blahak, U.; Noppel, H.; Beheng, K.; Rosenfeld, D.; Khain, A.; Cattani, E.; Levizani, V.
Aerosol/cloud feedbacks with the most recent version of the German weather forecast model (COSMO LM)

17:00 END OF SESSION

AS1.15 Aerosol-Precipitation Interactions – Posters

Convener: Andreae, M.
Co-Convener(s): Lohmann, U., Rosenfeld, D.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 10:30–12:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0082; EGU2007-A-00390; AS1.15-1WE2P-0082
Posselt, R.; Lohmann, U.
Prognostic equations for rain in the ECHAM5 GCM: Global simulations

XY0083; EGU2007-A-03212; AS1.15-1WE2P-0083
Knippertz, P.; Deutscher, C.; Kandler, K.; Müller, T.; Schulz, O.; Schütz, L.
Dust Mobilization due to Density Currents in the Atlas Region: Observations from the SAMUM Field Campaign

XY0084; EGU2007-A-03495; AS1.15-1WE2P-0084
Reutter, P.; Trentmann, J.; Luderer, G.; Simmel, M.; Textor, C.; Herzog, M.; Wernli, H.; Pöschl, U.; Andreae, M.O.
Numerical simulations of microphysical processes in pyroconvective clouds

XY0085; EGU2007-A-03865; AS1.15-1WE2P-0085
Peng, Y.; Liu, Y.
Verification on the parameterization of the cloud droplet size distribution with in-situ observational data for GCM simulations

XY0086; EGU2007-A-05950; AS1.15-1WE2P-0086
Kumar, R.; Gupta, A.; Srivastava, S.S.; Kumari, K.M.
Characterization of rainwater and determination of wet scavenging ratio

XY0087; EGU2007-A-06125; AS1.15-1WE2P-0087
Andronova, A.; **Ginzburg, A.;** Minashkin, V
Aerosol impact on extreme weather and climate events, clouds and precipitation

XY0088; EGU2007-A-07613; AS1.15-1WE2P-0088
Yin, Y.; Chen, L.
A numerical study of the heating effect of mineral aerosols on cloud and precipitation

XY0089; EGU2007-A-07671; AS1.15-1WE2P-0089
Bäumer, D.; Vogel, B.
Significant weekly periodicities in meteorological variables in Germany – Evidence of an anthropogenic aerosol effect? (cancelled)

XY0090; EGU2007-A-07980; AS1.15-1WE2P-0090
Davies, S.; Cui, Z.; Carslaw, K.S.; Blyth, A.M.; Yin, Y.
The predictability of the response of mixed-phase convective clouds to aerosol perturbations.

XY0091; EGU2007-A-08204; AS1.15-1WE2P-0091
Deandreis, C.; Balkanski, Y.; **Dufresne, J.L.**
Non-linearity of the first indirect effect: an improvement of its determination

XY0092; EGU2007-A-08591; AS1.15-1WE2P-0092
Deandreis, C.; Balkanski, Y.; Schulz, M.
Past, present and future anthropogenic aerosol emissions: atmospheric feedbacks in different climate conditions

XY0093; EGU2007-A-09016; AS1.15-1WE2P-0093
Sun, J.; **Ariya, P.A.;** Leighton, H.
Modeling studying the role of bacteria on ice nucleation processes

AS2.01 Air-Land Interactions (General Session) (co-listed in BG & HS)

Convener: Foken, T.
Co-Convener(s): Hasager, C.
Lecture Room 29
Chairperson: N.N.

8:30–8:45; EGU2007-A-05800; AS2.01-1WE1O-001
Griffith, D.; Deutscher, N.; Bryant, G.; Wilson, S.; Kettlewell, G.; Riggensbach, M.; Smale, D.; Connor, B
A portable FTIR analyser for field measurements of concentrations and fluxes of CO₂, CH₄, N₂O and CO

8:45–9:00; EGU2007-A-03154; AS2.01-1WE1O-002
Laubach, J.; **McNaughton, K. G.**
Analysis of Wind and Temperature Spectra over Grassland and Scrubland using a new Scaling Scheme for the Unstable Surface Layer

9:00–9:15; EGU2007-A-01550; AS2.01-1WE1O-003
Steinfeld, G.; Raasch, S.; Markkanen, T.; Foken, T.
An LES driven Lagrangian stochastic particle model used for footprint evaluations

9:15–9:30; EGU2007-A-02826; AS2.01-1WE1O-004
Markkanen, T.; Steinfeld, G.; Kljun, N.; Raasch, S.; Foken, T
Comparison between conventional stochastic Lagrangian and LES based Lagrangian modelling of footprints

9:30–9:45; EGU2007-A-07705; AS2.01-1WE1O-005
Rinne, J.; Markkanen, T.; Vesala, T.
Vertical flux profiles of reactive trace gases derived by stochastic Lagrangian transport model with parameterized chemical degradation

9:45–10:00; EGU2007-A-01942; AS2.01-1WE1O-006
Hammerle, A.; Haslwanter, A.; Tappeiner, U.; Cernusca, A.; Wohlfahrt, G.
 Energy Partitioning of a Mountain Meadow: Controls, seasonal and inter-annual Variability

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-01268; AS2.01-1WE2O-001
Wohlfahrt, G.; Hammerle, A.; Haslwanter, A.; Bahn, M.; Tappeiner, U.; Cernusca, A.

Carbon Balance Tradeoffs for Mountain Grasslands: Influence of Cutting Frequency and Growing Season Length on the Net Ecosystem CO₂ Exchange

10:45–11:00; EGU2007-A-09575; AS2.01-1WE2O-002
Zeeman, M.J.; Eugster, W.; Hiller, R.; Buchmann, N.
 Quantification of Alpine grassland carbon dioxide budgets

11:00–11:15; EGU2007-A-09302; AS2.01-1WE2O-003
Falk, U.; Brümmer, C.; Brüggemann, N.; Wassmann, R.; Szarzynski, J.; Papen, H.

Fluxes of carbon, water, and energy above a natural savannah in Burkina Faso, West-Africa

11:15–11:30; EGU2007-A-10037; AS2.01-1WE2O-004
 Montagnani, L.; **Manca, G.;** Canepa, E.; Georgieva, E.; Kerschbaumer, G.; Minerbi, S.; Seufert, G.

A new methodology for estimating CO₂ advective fluxes in complex topography: the mass-consistent approach

11:30–11:45; EGU2007-A-05710; AS2.01-1WE2O-005
Moene, A.F.; De Bruin, H.A.R.; Schüttemeyer, D.

The effect of surface heterogeneity on the temperature-humidity correlation and the relative transport efficiency

11:45–12:00; EGU2007-A-06084; AS2.01-1WE2O-006
Rebmann, C.; Kolle, O.; Kutsch, W.; Zeri, M.; Feigenwinter, C.

Influence of mesoscale transport processes of CO₂ on flux measurements at complex terrain

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2007-A-09850; AS2.01-1WE3O-001
 Suleau, M.; **Moureaux, C.;** Debacq, A.; Bodson, B.; Culot, M.; Aubinet, M

Response of autotrophic and heterotrophic respirations to soil temperature, humidity, root development and laboratory measurements.

13:45–14:00; EGU2007-A-01548; AS2.01-1WE3O-002
Murray, T.; Verhoef, A.
 A new approach to the determination of soil heat flux below vegetated surfaces for remote sensing applications.

14:00–14:15; EGU2007-A-02307; AS2.01-1WE3O-003
Graßelt, R.; Warrach, K.; Ament, F.; Simmer, C.
 Scales of precipitation and the landform, the interaction by discharge generation

14:15–14:30; EGU2007-A-03067; AS2.01-1WE3O-004
Zaksek, K.; Schroedter-Homscheidt, M.
 Ambient air temperature parameterization from remote sensing data

14:30–14:45; EGU2007-A-04520; AS2.01-1WE3O-005
Andrieux, C.; Guillevic, P.; Do, M.-T.; Andrieu, H.
 Modelling of interactions between urban surfaces and atmosphere

14:45–15:00; EGU2007-A-05016; AS2.01-1WE3O-006
Bertoldi, G.; Kustas, W. P.; Albertson, J. D.
 Impact of the variability of atmospheric forcing on the estimation of surface fluxes using remotely sensed surface states.

15:00 END OF SESSION

AS2.01 Air-Land Interactions (General Session) (co-listed in BG & HS) – Posters

Convener: Foken, T.

Co-Convener(s): Hasager, C.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 15:30–17:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0094; EGU2007-A-08917; AS2.01-1WE4P-0094

Bordás, Á.; Weidinger, T.; Horváth, L.; Pintér, K.; Machon, A.; Gyöngyösi, A. Z.

Uncertainties in gradient and profile method for trace gas flux calculations

XY0095; EGU2007-A-10365; AS2.01-1WE4P-0095

Rummel, U.

The effect of micro scale vegetation heterogeneity on radiation measurements at a grass site

XY0096; EGU2007-A-03595; AS2.01-1WE4P-0096

Siebicke, L.; Markkanen, T.; Tenhunen, J.; Foken, T.
 Energy fluxes in a Mediterranean savanna ecosystem during the transition from wet to dry season

XY0097; EGU2007-A-02504; AS2.01-1WE4P-0097

Staudt, K.; Mayer, J.-C.; Steeneveld, G.-J.; Meixner, F.X.; Foken, Th.

Determination of the atmospheric boundary layer height on an Alpine pumping day at Hohenpeißenberg (Germany)

XY0098; EGU2007-A-07858; AS2.01-1WE4P-0098

Mayer, J.-C.; Scheibe, M.; Foken, T.; Meixner, F.X.
 Observing the fine structure of the lower atmospheric boundary layer with a scanning profiling system

XY0099; EGU2007-A-02988; AS2.01-1WE4P-0099

Lüers, J.; Smaczny, J.; Kies, A.; Bareiss, J.
 Dynamics of exchange processes of CO₂ and 222Radon between forest floor, forest canopy and atmosphere

XY0100; EGU2007-A-08625; AS2.01-1WE4P-0100

Heinesch, B.; Yernaux, M.; Aubinet, M.
 Comparison of two drainage flow situations on a gentle forested slope

XY0101; EGU2007-A-10260; AS2.01-1WE4P-0101

Moderow, U.; Bernhofer, C.; CE ADVEX Team
 Energy balance at ADVEX sites – how much energy is available?

XY0102; EGU2007-A-04857; AS2.01-1WE4P-0102

Zeri, M.; Rebmann, C.; Kutsch, W.; Kolle, O.; Foken, T.; Schulze, E.-D.

Coupling of above and below-canopy flows for three towers in a spruce ecosystem site located on a hill

XY0103; EGU2007-A-05869; AS2.01-1WE4P-0103

Hsieh, C.

Estimating footprint and water vapor fluxes over inhomogeneous surfaces by the Lagrangian stochastic model

XY0104; EGU2007-A-08108; AS2.01-1WE4P-0104

Schmidt, M.; Schneider, K.; Lenz, V.
 Eddy Covariance-Measurements of carbon dioxide and water vapour fluxes of a sugar beet canopy for the validation of the DANUBIA crop growth model

XY0105; EGU2007-A-08737; AS2.01-1WE4P-0105

Tatarinov, F.A.; Molchanov, A.G.

CO₂ efflux from wood and coarse woody debris in Russian southern taiga

XY0106; EGU2007-A-01939; AS2.01-1WE4P-0106

Falge, E.

Modelling spectral radiation extinction in forest stands

XY0107; EGU2007-A-00889; AS2.01-1WE4P-0107

Czender, Cs.; Mészáros, R.; Lagzi, I.; Vincze, Cs.

Estimation of ozone fluxes over forest

XY0108; EGU2007-A-02385; AS2.01-1WE4P-0108

Matejka, F.; Hurtalova, T.; Janous, D.

Model simulations of air temperature and humidity above forest stands

XY0109; EGU2007-A-02980; AS2.01-1WE4P-0109

Potužníková, K.; Sedlák, P.; Šauli, P.

Wavelet-based study of coherence in turbulent flow within the spruce forest at mountainous site Bílý Kůř

XY0110; EGU2007-A-03179; AS2.01-1WE4P-0110

Ohkubo, S.; Kosuigi, Y.; Takanashi, S.; Mitani, T.; Tani, M.

Evaluating ecosystem respiration in a Japanese temperate cypress forest

XY0111; EGU2007-A-03460; AS2.01-1WE4P-0111

Molnár, G.; Timár, G.; Ferencz, Cs.; Lichtenberger, J.

Land Surface Temperature (LST) estimation algorithm for MODIS data

XY0112; EGU2007-A-04123; AS2.01-1WE4P-0112

Rakkibu, M. G.; Ibrom, A.; Panferov, O.; Kreilein, H.; Gravenhorst, G.

Biophysical characterization of tropical montane rain forest of Central Sulawesi Indonesia

XY0113; EGU2007-A-04928; AS2.01-1WE4P-0113

Olchev, A.; Ibrom, A.; Ross, T.; Rakkibu, G.; Panferov, O.; Gravenhorst, G.; Kreilein, H.

Application of a SVAT model for estimation of contribution of vertical advection and storage terms to NEE of CO₂ for a tropical forest ecosystem under eddy covariance flux measurements

XY0114; EGU2007-A-02334; AS2.01-1WE4P-0114

Olchev, A.V.; Kurbatova, J.A.; Varlagin, A.V.; Tatarinov, F.A.; Vygodskaya, N.N.

A modelling study of the responses of evapotranspiration and Net Ecosystem Exchange of CO₂ on species composition changes in a boreal forest ecosystem

XY0115; EGU2007-A-04635; AS2.01-1WE4P-0115

Scozzari, A

Modelling of the surface biogas flux in a MSW landfill: a neural network approach

XY0116; EGU2007-A-01733; AS2.01-1WE4P-0116

Dupont, R.; Butterbach-Bahl, K.; Delon, C.; Bruggemann, N.; **Serça, D.**

Neural network treatment of 3 years long NO measurement in temperate and tropical climates

XY0117; EGU2007-A-02260; AS2.01-1WE4P-0117

Dudouit Fichet, A.; Quenol, H.; Douvinet, J

Application of a multi scale approach over the area of Caen (Normandy, France) to analyse the influence of local aerology on photooxidant pollution dynamics on coastal areas

XY0118; EGU2007-A-02138; AS2.01-1WE4P-0118

Fritsche, J.; Zeeman, M.; Obrist, D.; Alewell, C.

Air-biosphere exchange of elemental mercury determined with micrometeorological methods

XY0119; EGU2007-A-03044; AS2.01-1WE4P-0119

Gavrichkova, O.; Kuzyakov, Y.; Valentini, R.

Ammonium versus Nitrate Nutrition of Zea mays and Lupinus albus: Effect on root-derived CO₂ Efflux

XY0120; EGU2007-A-04670; AS2.01-1WE4P-0120

Higuchi, K.; Chan, D.; Ishizawa, M.; Yuen, C.-W.; Chen, J.

Seasonal CO₂ rectifier effect and the large-scale extratropical atmospheric transport

XY0121; EGU2007-A-03681; AS2.01-1WE4P-0121

Alberts, I.; Masbou, M.; Bott, A.

Modelling the impact of landform structure on fog formation

XY0122; EGU2007-A-05047; AS2.01-1WE4P-0122

Nie, S.P.; Zhu, J.; Luo, Y.

Sensitivity examination of soil moisture simulation in Huaihe River Basin of China

XY0123; EGU2007-A-06594; AS2.01-1WE4P-0123

Bargsten, A.; Holy, P.; Glatzel, S.

Fluxes of methane and nitrous oxide in an unmanaged old growth beech forest during winter

XY0124; EGU2007-A-07729; AS2.01-1WE4P-0124

Kotnik, J.; Kocman, D.; Huremovic, J.; Horvat, M.

Mercury soil-air fluxes in regions polluted by different anthropogenic activities

XY0125; EGU2007-A-10978; AS2.01-1WE4P-0125

Nunes, T.; Cascão, P.; Pereira, M. E.; Duarte, A.; Figueira, E.

Mercury flux evaluation to the atmosphere in a contaminated area (Esteiro de Estarreja)

XY0126; EGU2007-A-10692; AS2.01-1WE4P-0126

Lawford, R.G.

Global Energy and Water Cycle Experiment (GEWEX) Progress in understanding Land-Atmosphere Interactions

XY0127; EGU2007-A-07271; AS2.01-1WE4P-0127

Hodson, E.; Martin, D.; Prinn, R

Emissions of Montreal Protocol gases from landfills in the US

AS3.02 Aerosol Chemistry and Microphysics (General Session)

Convener: Kiendler-Scharr, A.

Co-Convener(s): Coe, H., Mentel, T.

Lecture Room 12 (E2)

Chairperson: RUDICH, Y. AND KIENDLER-SCHARR, A.

8:30–9:00; EGU2007-A-10900; AS3.02-1WE1O-001

McFiggans, G.; Aerosol Aging Team

Evolution of the character of multicomponent aerosol and the effects on physico-chemical properties (solicited)

9:00–9:15; EGU2007-A-02870; AS3.02-1WE1O-002

Reid, J.; Mitchem, L.; Buajarnern, J.; Butler, J.; Hanford, K. Characterising the hygroscopic properties of organic/inorganic/aqueous aerosol in single particle measurements

9:15–9:30; EGU2007-A-05190; AS3.02-1WE1O-003

Sjogren, S.; Gysel, M.; Weingartner, E.; Baltensperger, U.; Cubison, M.J.; Coe, H.; Zardini, A.A.; Marcolli, C.; Krieger, U.K.; Peter, T.

Hygroscopic Growth and Water Uptake Kinetics of Two-Phase Aerosol Particles consisting of Ammonium Sulfate, Adipic and Humic Acid Mixtures

9:30–9:45; EGU2007-A-10754; AS3.02-1WE1O-004
Metzger, S.; Lelieveld, J.; Mihalopoulos, N.

How organics affect the aerosol composition and hygroscopic growth – a case study with the new thermodynamic model EQSAM3 based on MINOS results

9:45–10:00; EGU2007-A-09497; AS3.02-1WE1O-005
Mentel, T. F.; JPAC06 - Team

Microphysical properties of SOA from tree emissions

10:00–10:15; EGU2007-A-00672; AS3.02-1WE1O-006

Duplissy, J.; Meyer, N.; Good, N.; Jonsson, A.; Metzger, A.; Alfarra, M.R.; Dommen, J.; Gysel, M.; Weingartner, E.; Baltensperger, U.

Influence of photooxidation and oligomerisation on the hygroscopicity and volatility of α -pinene SOA

10:15 END OF SESSION

AS3.02 Aerosol Chemistry and Microphysics (General Session) – Posters

Convener: Kiendler-Scharr, A.

Co-Convener(s): Coe, H., Mentel, T.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: COE, H., KIENDLER-SCHARR, A., MENTEL, T.

XY0128; EGU2007-A-03959; AS3.02-1WE2P-0128

Facchini, M. C.; Emblico, L.; Cavalli, F.; Decesari, S.; Mircea, M.; Rinaldi, M.; Fuzzi, S.; Laaksoinen, A.

Aerosol chemical composition during new particle formation events in the Po Valley (Italy)

XY0129; EGU2007-A-03664; AS3.02-1WE2P-0129

Arnold, F.; Schuck, T.J.; Pirjola, L.; Keskinen, J.; Rönkkö, T.; Lähde, T.; Hämeri, K.; Aufm Hoff, H.; Sorokin, A.; Rothe, D.

Gaseous sulfuric acid and volatile nanoparticle formation by modern diesel vehicles

XY0130; EGU2007-A-08057; AS3.02-1WE2P-0130

Emblico, L.; Marelli, L.; Lagler, F.; Borowiak, A.; Buzica, D.; Gerboles, M.

Atmospheric aerosol characterization in different urban background sites across Europe

XY0131; EGU2007-A-07376; AS3.02-1WE2P-0131

ALFARRA, M.R.; Prevot, A.S.H.; Duplissy, J.; Metzger, A.; Lanz, V.; Hueglin, C.; Dommen, J.; Weingartner, E.; Baltensperger, U.

Oxygenated organic aerosols: field and smog chamber measurements

XY0132; EGU2007-A-02590; AS3.02-1WE2P-0132

Setyan, A.; sauvain, J.-J.; riediker, M.; guillemin, M.; rossi, M.J.

Characterization of surface functional groups present on field-sampled aerosols

XY0133; EGU2007-A-05156; AS3.02-1WE2P-0133

Hopkins, R.; Desyaterik, Y.; Tivanski, A.; Gilles, M.; Laskin, A.

Partitioning of methanesulfonate and non-sea-salt sulfate in individual sea salt particles collected at the Pt. Reyes national seashore

XY0134; EGU2007-A-07362; AS3.02-1WE2P-0134

Sciare, J.; Pertuisot, M.H.; Amelineau, B.; Sarda-Estève, R.; d'Argouges, O.

Semi-continuous measurements of the DMS oxidation products (MSA & nss-SO₄) in the aerosol phase at Amsterdam Isl., a remote site of the Austral Ocean.

XY0135; EGU2007-A-01961; AS3.02-1WE2P-0135

Kandler, K.; Benker, N.; Bundke, U.; Cuevas, E.; Ebert, M.; Knippertz, P.; Rodríguez, S.; Schütz, L.; Weinbruch, S.

Chemical composition and complex refractive index of Saharan mineral dust at Izaña, Tenerife (Spain) as derived by electron microscopy

XY0136; EGU2007-A-02348; AS3.02-1WE2P-0136

Schütz, L.; Kandler, K.; Ebert, M.; Weinbruch, S.; Deutscher, C.; Jaenicke, R.; Zorn, S.; Schladitz, A.; Maßling, A.

Saharan mineral dust experiment SAMUM 2006: Surface observations of size distributions and mass concentrations.

XY0137; EGU2007-A-08338; AS3.02-1WE2P-0137

Morales-García, F.; Mayol-Bracero, O.L.; Repollet-Pedrosa, M.H.; Metzger, S.M.; Decesari, S.; Kasper-Giebl, A.; Ramírez-Santa Cruz, C.; Puxbaum, H.; Di Girolamo, L.

Water uptake by aerosol particles at the Caribbean: differences due to air mass origin and composition

XY0138; EGU2007-A-03372; AS3.02-1WE2P-0138

Zardini, A.A.; Krieger, U.K.; Marcolli, C.; Peter, T.

Hygroscopic properties of mixed inorganic/organic particles: Ammonium sulfate with citric, glutaric and adipic acid.

XY0139; EGU2007-A-07309; AS3.02-1WE2P-0139

Rozaini, MZH.; Brimblecombe, P.

The Solubilities of Dicarboxylic Acids in Multicomponent Aqueous Aerosol

XY0140; EGU2007-A-07465; AS3.02-1WE2P-0140

Rozaini, MZH.; Brimblecombe, P.

The Solubilities of Dicarboxylic Acids in Multicomponent Aqueous Aerosols

XY0141; EGU2007-A-06669; AS3.02-1WE2P-0141

Henning, S.; Wex, H.; Stratmann, F.; LEXNo team

CCN properties of coated soot particles & #8211; results from LEXNo

XY0142; EGU2007-A-08337; AS3.02-1WE2P-0142

Mentel, T. F.; Kiendler-Scharr, A.; Tillmann, R.; Kiselev, A.; Wex, H.; Stratmann, F.; Hennig, T.; Schneider, J.; Walter, S.

Carbonaceous mixed phase aerosols: the coating of soot with levoglucosan

XY0143; EGU2007-A-08468; AS3.02-1WE2P-0143

Vesna, O.; Sjogren, S.; Weingartner, E.; Samburova, V.; Kalberer, M.; Gaeggeler, H.W.; Ammann, M.

The effect of humidity during ozonolysis of unsaturated fatty acid aerosol on the hygroscopicity of the products

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: COE, H., KIENDLER-SCHARR, A., MENTEL, T.

XY0144; EGU2007-A-02673; AS3.02-1WE3P-0144

Sadezky, A.; Winterhalter, R.; Kanawati, B.; Römpf, A.; Mellouki, A.; Le Bras, G.; Chaimbault, P.; Moortgat, G.K.

The central role of the Criegee Intermediate in the formation of oligomers in SOA from the gas-phase ozonolysis of small unsaturated VOC

XY0145; EGU2007-A-09179; AS3.02-1WE3P-0145

Tillmann, R.; Mentel, T. F.; Kiendler-Scharr, A.; Saathoff, H.

Temperatur dependent rate coefficients of the α -pinene + ozone reaction

XY0146; EGU2007-A-06011; AS3.02-1WE3P-0146

Krüger, H.-U.; **Zetzsch, C.**

Particle formation from toluene by OH-induced photochemical transformation employing a wide range of OH level

XY0147; EGU2007-A-07454; AS3.02-1WE3P-0147

Guo, X.; Brimblecombe, P.

Aerosol chemistry of phenols

XY0148; EGU2007-A-09446; AS3.02-1WE3P-0148

Marston, G.; Ma, Y

Mechanisms for the formation of secondary organic aerosol components in the reaction of ozone with alpha-pinene

XY0149; EGU2007-A-05353; AS3.02-1WE3P-0149

Gershenson, Yu.M.; Stepanov, A.V.; Zasytkin, A.Yu.; Ivanov, A.V.; Molina, M.J.

Kinetic mechanism of solid alkanes oxidation in the troposphere. EPR study. (cancelled)

XY0150; EGU2007-A-02688; AS3.02-1WE3P-0150

Kanawati, B.; Herrmann, F.; Sadezky, A.; Winterhalter, R.; Moortgat, G.K.

Identification of new oxidation products in the aerosol particles of

XY0151; EGU2007-A-05290; AS3.02-1WE3P-0151

Kiendler-Scharr, A.; Zhang, Q.; JPAC06

Aerosol Mass Spectrometric features of biogenic SOA: observations from a plant chamber and in rural atmospheric environments

XY0152; EGU2007-A-01805; AS3.02-1WE3P-0152

Poulain, L.; Herrmann, H.

Measurement of secondary organic aerosol formation by aerosol mass spectrometry during ozonolysis of terpenes.

XY0153; EGU2007-A-02613; AS3.02-1WE3P-0153

Herrmann, F.; Kanawati, B.; Sadezky, A.; Klüpfel, T.; Williams, J.; **Winterhalter, R.;** Moortgat, G.K.

Gas phase ozonolysis of sesquiterpenes: kinetics, OH-radical and SOA yields, and reaction mechanism

XY0154; EGU2007-A-02989; AS3.02-1WE3P-0154

Griffiths, P.; Cassanelli, P.; Cox, R. A.

New laboratory measurements of the temperature-dependence of heterogeneous removal of N₂O₅ by sulfate aerosols

XY0155; EGU2007-A-07457; AS3.02-1WE3P-0155

Ofner, J.; **Grothe, H.**

Investigations of Surface Chemistry on Carbonaceous Particles

XY0156; EGU2007-A-03400; AS3.02-1WE3P-0156

Schmitt-Kopplin, Ph.; Gebefugi, I.; Hertkorn, N.; Frommberger, M.; Witt, M.; Koch, B.; Kiss, G.; Gelencsér, A.; Dabek-Zlotorzynska, E.

Analysis of the unresolved organic fraction in aerosols with ultrahigh resolution mass spectrometry

XY0157; EGU2007-A-10471; AS3.02-1WE3P-0157

Graus, M.; Dommen, J.; Metzger, A.; Müller, M.; Wisthaler, A.; Hansel, A.

Measurement of high-molecular weight compounds in the organic fraction of aerosol by high resolution PTR-TOFMS

XY0158; EGU2007-A-11635; AS3.02-1WE3P-0158

Ajtai, T.; Filep, Á.; Veres, A.H.; Motika, G.; Bozóki, Z.; Szabó, G.

Multi purpose air quality monitoring photoacoustic system for aerosol, NO₂ and ozone detection: laboratory and field test

XY0159; EGU2007-A-06549; AS3.02-1WE3P-0159

Uhrek, E.; Schuepbach, E.

Answers to the Public: Explaining Aerosol Reactions and Impacts in an understandable way

AS3.03 Cloud Chemistry and Microphysics (General Session)

Convener: Herrmann, H.

Lecture Room 12 (E2)

Chairperson: N.N.

10:30–10:45; EGU2007-A-01825; AS3.03-1WE2O-001

Hoffmann, M. R.; Cheng, J.; Vecitis, C.; **Colussi, A. J.**

Experimental anion affinities for the air/water interface

10:45–11:00; EGU2007-A-01893; AS3.03-1WE2O-002

Roeselová, M.

Modelling of structure and gas phase uptake at aqueous and organic atmospheric surfaces by molecular dynamics simulations

11:00–11:15; EGU2007-A-04198; AS3.03-1WE2O-003

Tost, H.; Jöckel, P.; Kerkweg, A.; Sander, R.; Pozzer, A.; Lelieveld, J.

Tropospheric cloud and precipitation chemistry - Is this important for the chemical composition of the atmosphere in global modelling studies?

11:15–11:30; EGU2007-A-05545; AS3.03-1WE2O-004

Bower, K. N.; Choularton, T.W.; Romakkaniemi, S.; Gallagher, M.W.; Coe, H.; Crosier, J.; Allan, J.; Lewis, A.; Reeves, C

Interactions of urban aerosol plumes with stratocumulus cloud

11:30–11:45; EGU2007-A-06805; AS3.03-1WE2O-005

Romakkaniemi, S.; McFiggans, G.; Bower, K.N.; Coe, H.; Choularton, T. W.

Closure study of cloud aerosol interactions using trajectory ensemble model

11:45–12:00; EGU2007-A-07762; AS3.03-1WE2O-006

Leriche, M.; Deguillaume, L.; Curier, R.L.; Caro, D.; Sellegri, K.; Chaumerliac, N.

Numerical quantification of sources and phase partitioning of chemical species in cloud at the Puy de Dôme station

12:00 END OF SESSION

AS3.03 Cloud Chemistry and Microphysics (General Session) – Posters

Convener: Herrmann, H.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0160; EGU2007-A-03991; AS3.03-1WE3P-0160

Tilgner, A.; Wolke, R.; Herrmann, H.

SPACCIM model studies on the multiphase processing of tropospheric aerosols

XY0161; EGU2007-A-00445; AS3.03-1WE3P-0161

Gedamke, SG.; Stetzer, OS; Lohmann, UL

Collision efficiency measurements of droplets and aerosols with sizes relevant to the atmosphere

XY0162; EGU2007-A-01588; AS3.03-1WE3P-0162

Weller, C.; Daenhardt, S.; Hoffmann, D.; Herrmann, H.

Reactivity of the OH-radical towards mono- and dicarboxylic acids in aqueous solution

XY0163; EGU2007-A-01621; AS3.03-1WE3P-0163

Hoffmann, D.; Herrmann, H.

Oxidation of 4-methylphenol (p-cresol) by atmospheric radicals in aqueous solution - A product study

XY0164; EGU2007-A-03893; AS3.03-1WE3P-0164

Mueller, C.; Iinuma, Y.; Herrmann, H.

Analytical method development for to analysis of polar organic compounds in sea spray particles and the oceans surface microlayer

XY0165; EGU2007-A-10534; AS3.03-1WE3P-0165

Huthwelker, T.; Tzvetkov, G.; Sjoegren, S.; Raabe, J.; Ammann, M

Micro-morphology of artificial mixed organic aerosols studied using X-Ray microscopy

XY0166; EGU2007-A-07284; AS3.03-1WE3P-0166

Grothe, H.; Ortega Colomer, I.K.; Waller, D.; Stokes, D.

Metastable nitric acid hydrates - PSC constituents

XY0167; EGU2007-A-07485; AS3.03-1WE3P-0167

Cairo, F.; Di Donfrancesco, G.; Viterbini, M.; Cardillo, F.; Snels, M.; Fierli, F.; Borrmann, S.; de Reus, M.; Voessing, H. A comparison of in situ backscattering and optical particle counters measurements on cirrus clouds observed during the M55 GEOPHYSICA tropical campaigns.

AS3.06 Air Pollution Modelling

Convener: Brandt, J.

Co-Convener(s): Frohn, L., Geels, C.

Lecture Room 1 (G)

Chairperson: BRANDT J. AND GEELS C.

8:30–8:45; EGU2007-A-08166; AS3.06-1WE1O-001

Bocquet, M

Reconstruction of a tracer dispersion event in case of emergency using advanced data assimilation techniques

8:45–9:00; EGU2007-A-06604; AS3.06-1WE1O-002

Hedegaard, G. B.; Brandt, J.; Christensen, J. H.; Frohn, L. M.; Geels, C.; Hansen, K. M.; Stendel, M.

Impacts of climate change on air pollution levels in the northern hemisphere

9:00–9:15; EGU2007-A-00965; AS3.06-1WE1O-003

Tagaris, E.; Liao, K-J; Manomaiphiboon, K.; Woo, J-H; He, S.; Amar, P.; Leung, L-Y; Wang, C.; Russell, A.G.

Sensitivity and uncertainty assessment of global climate change impacts on regional air quality over US

9:15–9:30; EGU2007-A-03583; AS3.06-1WE1O-004

Niemeier, U.; Granier, C.; Jungclaus, J.

Ozone pollution from future Ship Traffic in the Arctic Northern Passages

9:30–9:45; EGU2007-A-08439; AS3.06-1WE1O-005

Franke, K.; Eyring, V.; Sander, R.; Hendricks, J.; Lauer, A.; Sausen, R.; Bovensmann, H.

Towards Effective Emissions of Ships in Global Models

9:45–10:00; EGU2007-A-03111; AS3.06-1WE1O-006

Jourdain, L.; Worden, H.; Pickering, K.; Eldering, A.; Osterman, G.; Fisher, B.; Rider, D.; Thompson, A.

Lightning influence on tropospheric ozone over North America using TES, IONS, ND LN and LRLDN data and the GEOS-Chem model (solicited)

10:00 COFFEE BREAK

Chairperson: GEELS C. AND BRANDT J.

10:30–10:45; EGU2007-A-08679; AS3.06-1WE2O-001

Curci, G.; Beekmann, M.; Vautard, R.; Smiatek, G.; Steinbrecher, R.; Pfeiffer, H.; Theloke, J.; Friedrich, R.

Model study of the impact of updated European biogenic emission inventory from NatAir on air quality using Chimere chemistry-transport model (solicited)

10:45–11:00; EGU2007-A-09027; AS3.06-1WE2O-002

Kallos, G.; Astitha, M

Modeling of heterogeneous chemical processes in CAMx air quality model

11:00–11:15; EGU2007-A-01218; AS3.06-1WE2O-003

Hodzic, A.; Muller, D.; Madronich, S.; Bohn, B.; Goloub, P.; Massie, S.; Menut, L.; Wiedinmyer, C.

Contribution of wildfire emissions to ambient air quality in Europe during summer 2003: meso-scale modeling of smoke emissions, transport and radiative effects.

11:15–11:30; EGU2007-A-01496; AS3.06-1WE2O-004

Stroud, C.; Makar, P.; Moran, M.; Li, S.; Liggio, J.; Brook, J.; Wiens, B.; Bouchet, V.; Zhang, Q.; Jimenez, J.

Relative importance of primary and secondary aerosol components in fresh and aged air masses: Results with Environment Canada's regional air quality model (cancelled)

11:30–11:45; EGU2007-A-06384; AS3.06-1WE2O-005

Jimenez-Guerrero, P.; Perez, C.; Jorba, O.; Baldasano, J.M. Annual assessment of levels and composition of anthropogenic and natural particulate matter in southern Europe

11:45–12:00; EGU2007-A-06217; AS3.06-1WE2O-006

Niwano, M.; Takigawa, M.; Takahashi, M.; Teshiba, M.; Akimoto, H.

Regional chemical weather forecast over the central Japan: The effects of diffusion and mixing parameterization on the tracer transport from the planetary boundary layer to free troposphere

12:00 END OF SESSION

AS3.06 Air Pollution Modelling – Posters

Convener: Brandt, J.

Co-Convener(s): Frohn, L., Geels, C.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: BRANDT J. AND GEELS C.

XY0168; EGU2007-A-00879; AS3.06-1WE3P-0168

Antal, K.; Lagzi, I.; Mészáros, R.; Vincze, Cs.

Modeling of photochemical oxidant level in Central-Europe

XY0169; EGU2007-A-00886; AS3.06-1WE3P-0169

Komjáthy, E.; Lagzi, I.; Mészáros, R.; Vincze, Cs.; Szinyei, D.

Estimation of ozone deposition with TREX (TRansport-EXchange) model

XY0170; EGU2007-A-00565; AS3.06-1WE3P-0170

Travinsky, D.; Mahrer, I.; Pedersen, D.; Luria, M

The Application of Numerical models RAMS/HYPACT to study Atmospheric Dispersion of pollutants emitted by Power Plants in the Eastern Mediterranean Coast

XY0171; EGU2007-A-01722; AS3.06-1WE3P-0171

Zhu, J.; Wang, P.

Ensemble Kalman smoother and ensemble Kalman filter approaches to the joint air quality state and emission estimation problem

XY0172; EGU2007-A-01727; AS3.06-1WE3P-0172
Hirtl, M.; Baumann-Stanzer, K.; Krüger, B.C.
 Operational Ozone Forecasts for Austria

XY0173; EGU2007-A-01834; AS3.06-1WE3P-0173
Folini, D.; Ubl, S.; Kaufmann, P.
 Backward Lagrangian particle dispersion modeling for the high Alpine site Jungfraujoch

XY0174; EGU2007-A-04012; AS3.06-1WE3P-0174
Mircea, M.; D'Isidoro, M.; Maurizi, A.; Tampieri, F.; Facchini, M. C.; Decesari, S.; Fuzzi, S.
 Regional modeling of aerosols using the air quality model BOLCHEM: Saharan dust intrusions over Italy

XY0175; EGU2007-A-04377; AS3.06-1WE3P-0175
Ekström, M.; Lee, D.S.
 A first step towards assessing the Impact of Aviation NOx Emissions on Global Surface Temperatures

XY0176; EGU2007-A-04862; AS3.06-1WE3P-0176
 Popescu, A.; **Stefan, S.**
 Intercomparison of the different dispersion schemes of the atmospheric pollutants in the specific conditions of an impact zone

XY0177; EGU2007-A-05114; AS3.06-1WE3P-0177
Tang, X.; Wang, Z.F.; Zhu, J.
 Analysis and simulation of heavy pollutions in Shanghai during October 2006 using a nested air quality model (solicited)

XY0178; EGU2007-A-05427; AS3.06-1WE3P-0178
 Radanovic, S.; Krueger, B.C.; **Seibert, P.**
 Receptor-oriented air pollution modelling in the Austrian Wienerwald region

XY0179; EGU2007-A-05442; AS3.06-1WE3P-0179
 Capilla, C.
 Prediction of ozone air quality in an urban area using the low-pass KZ filter

XY0180; EGU2007-A-05796; AS3.06-1WE3P-0180
Struzewska, J.; Kaminski, J. W.
 Analysis of synoptic and air quality conditions during July 2006 heat wave over Europe (solicited)

XY0181; EGU2007-A-07118; AS3.06-1WE3P-0181
 Ortega, S.; **Alarcón, M.;** Soler, M.R.
 A comprehensive performance evaluation of an air quality model for Catalonia

XY0182; EGU2007-A-08748; AS3.06-1WE3P-0182
Cho, S.; Makar, P.; Liggio, J.; Li, S.; Lee, S.; Graham, L.
 Influence of industrial plume emission on urban and regional air-quality: high resolution air quality model evaluation with PrAIRie2005 observation data

XY0183; EGU2007-A-09194; AS3.06-1WE3P-0183
Moldanová, J.; Schlager, H.
 Chemistry in ship plumes – modelling and measurements (cancelled)

XY0184; EGU2007-A-09210; AS3.06-1WE3P-0184
Haeger-eugensson, M.; Sjöberg, K.; Forsberg, B.; Liljeberg, M.; Akselson, C.; Tang, L.
 Calculating air pollution exposure using an empirical statistical calculation method based on ventilation indexes

XY0185; EGU2007-A-09662; AS3.06-1WE3P-0185
Demaël, E.; Carisimmo, B.
 Local atmospheric dispersion modelling of pollutants issued from a nuclear power plant : a comparison using a CFD code and ADMS with wind tunnel data

XY0186; EGU2007-A-10590; AS3.06-1WE3P-0186
Halenka, T.; Huszar, P.; Belda, M.
 On the Regional Climate Modeling in High Resolution Involving Atmospheric Chemistry

XY0187; EGU2007-A-10610; AS3.06-1WE3P-0187
Halenka, T.; Huszar, P.; Belda, M.
 On the Modeling of Ship Plumes, Verification and their Impacts on Air Quality and Climate Change in EC 6FP Project QUANTIFY

XY0188; EGU2007-A-10855; AS3.06-1WE3P-0188
Jacob, M.; Matschullat, J.; Renner, E.; Wolke, R.
 Comparison of OMI NO2 with air quality monitoring sites and modelled values

XY0189; EGU2007-A-10951; AS3.06-1WE3P-0189
Tricio, V.; Vilorio, R.; Minguito, A.
 Temporary evolution of ozone air quality in province of Burgos (Spain): regression and cluster techniques.

XY0190; EGU2007-A-02874; AS3.06-1WE3P-0190
Demuzere, M.; Van Lipzig, N.P.M.; Van de Vel, K.; De Ridder, K.
 Characterization of specific meteorological conditions contributing to high PM10 and O3 concentrations in Belgium.

XY0191; EGU2007-A-06850; AS3.06-1WE3P-0191
Panitz, H.-J.
 Optimization of long-term air quality modelling for Baden-Württemberg (FRG): Part II, calculation of air quality indicators based on classified meteorological conditions

XY0192; EGU2007-A-11634; AS3.06-1WE3P-0192
 Ali Bidokhti, A.; Khoshima, M.; Sabetghadam, S.
 Direct observations of daytime atmospheric boundary layer

XY0193; EGU2007-A-11683; AS3.06-1WE3P-0193
Geels, C.; Frohn, L.M.; Løfstrøm, P.; Hertel, O.; Ambelas Skjøth, C.; Gyldenkerne, S.; Hansen, K.M.; Christensen, J.H.; Brandt, J.; Ellermann, T.; Moseholm, L.
 An overview of the Danish Ammonia Modelling System (DAMOS) and standard model calculation used for regulation of ammonia from agriculture in Denmark

XY0194; EGU2007-A-05281; AS3.06-1WE3P-0194
Capilla, C.
 Prediction of ozone air quality in an urban area using the KZ filter

AS3.09 Source apportionment of particulate matter – Posters

Convener: Prevot, A.
 Co-Convener(s): Larsen, B.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 13:30–15:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0195; EGU2007-A-03700; AS3.09-1WE3P-0195
Iinuma, Y.; Keywood, M.; Grass, J.; Herrmann, H.
 Contributions of biogenic secondary organic aerosol and biomass burning aerosol to PM10 loadings in the airshed of Melbourne, Australia

XY0196; EGU2007-A-10526; AS3.09-1WE3P-0196
Worsnop, D.R.; Canagaratna, M.R.; Zhang, Q.; Ulbrich, I.; Jayne, J.T.; Onasch, T.B.; Kroll, J.H.; Jimenez, J.L.
 Identification of Organic Aerosol Sources and their Impact on Ambient Aerosol: Aerosol Mass Spectrometry in Houston, Texas

XY0197; EGU2007-A-08645; AS3.09-1WE3P-0197
Lanz, V.A.; Alfara, M.R.; Baltensperger, U.; Buchmann, B.; Hueglin, C.; Prevot, A.S.H

Source apportionment of submicron organic aerosols at an urban site in Zurich (Switzerland) by factor analytical modeling of aerosol mass spectra

XY0198; EGU2007-A-03989; AS3.09-1WE3P-0198
Rinaldi, M.; Emblico, L.; Mancinelli, V.; Decesari, S.; Facchini, M. C.; Fuzzi, S.; Librando, V.

Chemical characterization and source apportionment of size-segregated aerosol collected at a urban site in Sicily

XY0199; EGU2007-A-04581; AS3.09-1WE3P-0199
Becagli, S.; Calzolari, G.; Chiari, M.; Lucarelli, F.; Mannini, A.; Martellini, T.; Nava, S.; Paperetti, L.; Udisti, R.; Yubero, E.

Aerosol source apportionment by PMF applied to daily and hourly concentration datasets: a case study in the framework of the PATOS project.

XY0200; EGU2007-A-01317; AS3.09-1WE3P-0200
Furger, M.; Bukowiecki, N.; Sandradewi, J.; Alfara, M.R.; Lienemann, P.; Szidat, S.; Prevot, A.S.H; Baltensperger, U. Elemental composition of winter PM10 aerosols at rural and urban sites determined with synchrotron X-ray fluorescence spectrometry

XY0201; EGU2007-A-09381; AS3.09-1WE3P-0201
Mazzei, F.; Calzolari, G.; Chiari, M.; Lucarelli, F.; Nava, S.; Prati, P.; Valli, G.; Vecchi, R. Streaker samplers and optical particle counters for the apportionment of size-segregated particles number concentration

XY0202; EGU2007-A-01759; AS3.09-1WE3P-0202
Witt, M.; Baker, A. R.; Jickells, T. D. Lead isotope ratios and trace metal concentrations in coastal and remote marine aerosols

XY0203; EGU2007-A-08590; AS3.09-1WE3P-0203
Perron, N.; Wehrli, M.; Szidat, S.; Sandradewi, J.; Prévôt, A.; Baltensperger, U. Source apportionment of PM10 carbonaceous aerosols in winter 2005/2006 in Swiss rural and urban sites using radiocarbon analyses of the EC and OC fractions

XY0204; EGU2007-A-08107; AS3.09-1WE3P-0204
Fisseha, R.; Kiendler-Scharr, A.; Spahn, H.; Tillmann, R.; Wegener, R.; Wahner, A. Chamber studies on the viability of d13C measurements in biogenic SOA formation

XY0205; EGU2007-A-08969; AS3.09-1WE3P-0205
Despres, V.; Nowoisky, J.; Klose, M.; Conrad, R.; Andreae, MO; Poeschl, U Genetic analysis and diversity of primary biogenic aerosol particles

XY0206; EGU2007-A-08003; AS3.09-1WE3P-0206
Elbert, W.; Taylor, P. E.; Andreae, M. O.; Pöschl, U. Contribution of fungi to primary biogenic aerosols in the atmosphere: Active discharge of spores, carbohydrates, and inorganic ions by Asco- and Basidiomycota

XY0207; EGU2007-A-05381; AS3.09-1WE3P-0207
Dogan, G.; Karakap, D.; Tuncel, G. Comparison of positive matrix factorization and factor analysis for the source apportionment of particulate pollutants at the Black Sea coast of Turkey

XY0208; EGU2007-A-05518; AS3.09-1WE3P-0208
Isikdemir, O.; Dogan, G.; Tuncel, G. Determination of sources affecting chemical composition of rain water at the Eastern Mediterranean using positive matrix factorization.

XY0209; EGU2007-A-05941; AS3.09-1WE3P-0209
Kumar, R.; Srivastava, S.S.; Kumari, K.M. Aerosols characteristics and source apportionment at a site in Indo-Gangetic Plain

XY0210; EGU2007-A-08675; AS3.09-1WE3P-0210
Latella, A.; Marson, G.; Benassi, A. Venice under siege by biomass burning

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 15:30–17:00

AS Poster Area
Chairperson: N.N.

AS3.12 Megacity Impacts on Regional and Global Scales

Convener: Molina, L.
Co-Convener(s): Capilla, C., Gaffney, J., Kokhanovsky, A., Marley, N.
Lecture Room 1 (G)
Chairperson: MOLINA, L.T.

13:30–14:00; EGU2007-A-10833; AS3.12-1WE3O-001
Kiang, C.S.

The challenges and possible solutions of air quality management in China (solicited)

14:00–14:15; EGU2007-A-05051; AS3.12-1WE3O-002
Lawrence, M. G.; Butler, T. M.; Steinkamp, J.; Gurjar, B. R.; Lelieveld, J. Regional pollution potentials of megacities and other major population centers

14:15–14:30; EGU2007-A-08492; AS3.12-1WE3O-003
Chemel, C.; Sokhi, R. S.; Clappier, A. On the variability in the impacts of the London and Mexico City metropolitan areas on regional air quality

14:30–15:00; EGU2007-A-07044; AS3.12-1WE3O-004
Puxbaum, H.; Bauer, H.; Caseiro, A.; Sanchez-Ochoa, A.; Kasper-Giebl, A.; Claeys, M.; Gelencser, A.; Legrand, M.; Preunkert, S.; Pio, C. Wood combustion impact on particulate matter levels in Europe (solicited)

15:00–15:15; EGU2007-A-03672; AS3.12-1WE3O-005
Garland, RM; PRD optical properties
Aerosol optical properties near Guangzhou, China during the PRIDE-PRD2006 campaign

15:15 COFFEE BREAK

Chairperson: KOKHANOVSKY, A. AND GAFFNEY, J.

15:30–16:00; EGU2007-A-10405; AS3.12-1WE4O-001
Worsnop, DR; Herndon, SC; Onasch, TB; Wood, EC; Knighton, WB; Zavala, M; Mazzoleni, C; Thornhill, D; Seila, R; Kolb, CE
Evolution of Air Outflow from Mexico City: Gases and Particles (solicited)

16:00–16:15; EGU2007-A-10426; AS3.12-1WE4O-002
Molina, L. T. for the MCMA-2006/MILAGRO Collaborators Team
Overview of MCMA-2006: Ground-based measurements during MILAGRO Campaign in the Mexico City Metropolitan Area

16:15–16:30; EGU2007-A-01823; AS3.12-1WE4O-003
Gaffney, J.; Marley, N. Overview of the Megacity Aerosol Experiment- Mexico City (MAX-Mex)

16:30–16:45; EGU2007-A-09893; AS3.12-1WE4O-004
Sosa, G.; Vega, E.; Gonzalez, E.; Zambrano, A.; Ariaga, J.L.; Gasca, J.; Magdaleno, M.
 Contribution of Tula's industrial emissions to the Mexico City urban plume

16:45–17:00; EGU2007-A-02362; AS3.12-1WE4O-005
Marley, N.; Gaffney, J.
 Carbonaceous aerosol absorption changes due to photochemistry in Mexico City.

17:00–17:15; EGU2007-A-04687; AS3.12-1WE4O-006
Livingston, J.; Redemann, J.; Russell, P.; Johnson, R.; Zhang, Q.; Remer, L.; Kahn, R.; Torres, O.; Smirnov, A.; Holben, B.
 Comparison of Airborne Sunphotometer and Satellite Sensor Retrievals of Aerosol Optical Depth during MILAGRO/INTEX-B

17:15 COFFEE BREAK

Chairperson: KOKHANOVSKY, A. AND GAFFNEY, J.

17:30–17:45; EGU2007-A-09590; AS3.12-1WE5O-001
Sinreich, R.; Wagner, T.; Merten, A.; Platt, U.; Sheehy, P.; Molina, L.; Volkamer, R.
 MAX-DOAS Measurements of HONO during MCMA-2006

17:45–18:00; EGU2007-A-00892; AS3.12-1WE5O-002
Velasco, E.; Pressley, S.; Grivicke, R.; Westberg, H.; Jobson, T.; Allwine, E.; Coons, T.; Ramos, R.; Molina, L.T.; Lamb, B.
 Eddy covariance measurements of trace gases and energy fluxes from a polluted megacity

18:00 END OF SESSION

Biogeosciences

BG0.2 Biodiversity science in Europe: new tools and strategies (EuroDIVERSITY) (co-listed in ERE)

Convener: Frenzel, P.
 Co-Convener(s): Jonckheere, I.
 Lecture Room 20 (N)
 Chairperson: FRENZEL, P.

13:30–13:45; EGU2007-A-11564; BG0.2-1WE3O-001
Friedrich, M.
 Identification of key microbial players in biogeochemical processes by stable isotope probing of nucleic acids

13:45–14:00; EGU2007-A-11587; BG0.2-1WE3O-002
Stoeck, T.
 A polyphasic approach to explore protistan diversity

14:00–14:15; EGU2007-A-11563; BG0.2-1WE3O-003
Frenzel, P.
 Species, speciation, and diversity in the microbial world

14:15–14:30; EGU2007-A-07233; BG0.2-1WE3O-004
Templer, SP.; McKenzie, J.A.; Maignien, L.; Henriot, J.P.; Vasconcelos, C.
 The Pen Duick Escarpment off Morocco: A promising biogeochemically active carbonate mound laboratory (MICROSYSTEMS)

14:30–14:45; EGU2007-A-08786; BG0.2-1WE3O-005
Mahecha, M. D.; Schmidtlein, S.; Kühn, I.
 Nonlinear spatial pattern extraction in floristic data bases on national and continental scale

14:45–15:00; EGU2007-A-08347; BG0.2-1WE3O-006
Laranjeira, M.; Pereira, A.; Neves, M.
 Plant diversity response to foredune habitats fragmentation patterns by trampling (Vila Nova de Gaia, Portugal)

15:00 END OF SESSION

BG0.2 Biodiversity science in Europe: new tools and strategies (EuroDIVERSITY) (co-listed in ERE) – Posters

Convener: Frenzel, P.
 Co-Convener(s): Jonckheere, I.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 10:30–12:00
 Poster Area Foyer BG
 Chairperson: JONCKHEERE, I.

BG0001; EGU2007-A-09714; BG0.2-1WE2P-0001
Jonckheere, I.
 Challenges of Biodiversity in Europe: The EuroDIVERSITY Programme

BG0002; EGU2007-A-06265; BG0.2-1WE2P-0002
 Saari, A.; **Siljanen, H.;** Martikainen, P.J.
 Activity and diversity of methane oxidising microbes in the littoral zone of a boreal freshwater lake

BG0003; EGU2007-A-09541; BG0.2-1WE2P-0003
Poort, J.; Khlystov, O.; Shoji, H.; Nishio, S.; Kida, M.; Granin, N.; Naudts, L.; De Batist, M.
 Baikal mud volcanoes: thermal features of dynamic gas hydrate systems

BG0004; EGU2007-A-06301; BG0.2-1WE2P-0004
Timár, G.; Molnár, G.; Székely, B.; Somodi, I.; Ferencz, Cs.; Lichtenberger, J.; Pásztor, Sz.; Bognár, P.
 Developing remote sensing tools for monitoring the condition of forests in the Pannonian basin: Classification of the forest types using MODIS QKM and HKM bands

BG0005; EGU2007-A-06671; BG0.2-1WE2P-0005
Melentyev, V.; Chernook, V.; Melentyev, K.; Sandven, S.
 SAR satellite - airborne technology as a new tool for monitor of biological hot spots in the aquatic environment

BG0006; EGU2007-A-09758; BG0.2-1WE2P-0006
Jonckheere, I.
 Biodiversity science in the deep sea: the EuroDEEP Programme

BG1.05 Analysis and Characterization of Black Carbon in the Environment (co-listed in AS, HS, OS & SSS)

Convener: Schmidt, M.
 Co-Convener(s): Gustafsson, Ö.
 Lecture Room 19
 Chairperson: N.N.

13:30–13:45; EGU2007-A-00433; BG1.05-1WE3O-001
Lehmann, J.; Heymann, K.; Skjemstad, J.; Krull, E.; Schmidt, M.
 Quantification of black carbon in soil: introducing a sliding scale with STXM and NEXAFS spectroscopy

13:45–14:00; EGU2007-A-10082; BG1.05-1WE3O-002
 Song, J.; **Peng, P.**
 Characterization of black carbon materials using pyrolysis-GC-MS technology

14:00–14:15; EGU2007-A-04666; BG1.05-1WE3O-003
Hsieh, Y. P.; Bugna, G. C.
 Black carbon determination in sediments and soils using a multi-elemental scanning thermal analysis (MESTA)

14:15–14:30; EGU2007-A-02846; BG1.05-1WE3O-004
Glaser, B.; Knorr, K.-H.
 Biologically derived black carbon in soils

14:30–14:45; EGU2007-A-00037; BG1.05-1WE3O-005
Hammes, K.; Torn, M.S.; Lapenas, A.G.; Schmidt, M.W.I
 Centennial black carbon turnover observed in a Russia steppe soil

14:45–15:00; EGU2007-A-00537; BG1.05-1WE3O-006
Cheng, C.; Lehmann, J.
 Long-term Oxidation and Development of Surface Charge of Black Carbon along a Climosequence

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-04029; BG1.05-1WE4O-001
Alexis, M.A.; Rumpel, C.; Knicker, H.; Rasse, D.P.; Péchot, N.; Mariotti, A.
 Black carbon as isolated by chemical oxidation: characterization and contribution in litter and soil

15:45–16:00; EGU2007-A-05599; BG1.05-1WE4O-002
Eckmeier, E.; Wiesenberg, G.L.B.; Skjemstad, J.O.; Schmidt, M.W.I; Gerlach, R.
 Biogeochemical investigations of soils detect prehistoric agricultural burning in Northwestern Germany

16:00–16:15; EGU2007-A-03564; BG1.05-1WE4O-003
Endo, S.; Grathwohl, P.; Schmidt, T.C.
 Absorption or adsorption? Characterization of nonpolar organic compound sorption in soils using normal and cyclic alkanes as molecular probes

16:15–16:30; EGU2007-A-00960; BG1.05-1WE4O-004
Flores-Cervantes, D. X.; Gschwend, P. M.; Reddy, C. M.
 Black carbon in seawater and its cycling in the Gulf of Maine

16:30–16:45; EGU2007-A-08904; BG1.05-1WE4O-005
Sánchez-García, L.; de Andrés, J.R.; Martín Rubí, J.A.; González-Vila, F.J.; de la Rosa, J.M.; Schmidt, M.W.I; Hames, K.
 Comparative analysis of black carbon in marine sediments from a Mediterranean river influence coastal area (SW Iberia)

16:45–17:00; EGU2007-A-08505; BG1.05-1WE4O-006
Gustafsson, Ö.; Zencak, Z.; Elmquist, M.; Kruså, M.; Granath, L.; Leck, C.; Rodhe, H.
 Quantification and radiocarbon source apportionment of black carbon in North European and South Asian atmospheres using the CTO375 and ECOC methods

17:00 END OF SESSION

BG1.05 Analysis and Characterization of Black Carbon in the Environment (co-listed in AS, HS, OS & SSS) – Posters

Convener: Schmidt, M.

Co-Convener(s): Gustafsson, Ö.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 10:30–12:00

Poster Area Foyer BG

Chairperson: N.N.

BG0007; EGU2007-A-00036; BG1.05-1WE2P-0007
Hammes, K.; BC-ring trial team
 Comparison of quantification methods to measure fire-derived (black/elemental) carbon using reference materials from soil, water, sediment and the atmosphere

BG0008; EGU2007-A-00513; BG1.05-1WE2P-0008
Eckmeier, E.; van der Borg, K.; Schmidt, M.; Gerlach, R.
 Chemically isolated microcharcoal can be used for ¹⁴C dating when macrocharcoal is absent

BG0009; EGU2007-A-05095; BG1.05-1WE2P-0009
Ziolkowski, L.; Druffel, E.R.M
 Black carbon measurements using a revised benzene polycarboxylic acid (BPCA) method

BG0010; EGU2007-A-09717; BG1.05-1WE2P-0010
Nehls, T.; Brodowski, S.
 Black carbon in paved urban soils

BG0011; EGU2007-A-00578; BG1.05-1WE2P-0011
Cattaneo, R.; Malits, A.; Herndl, G.J.; Rassoulzadegan, F.; Weinbauer, G.M.
 Effect of black carbon on viruses and bacteria in coastal marine waters

BG0012; EGU2007-A-00698; BG1.05-1WE2P-0012
Elmquist, M.; Zencak, Z.; Gustafsson, O.
 Historical record of the combustion products BC and PAH in Aspvreten, a Swedish background area

BG0013; EGU2007-A-04018; BG1.05-1WE2P-0013
Sobek, A.; **Bucheli, T.D.**
 Towards a black carbon inventory of Swiss surface water sediments

BG0014; EGU2007-A-08669; BG1.05-1WE2P-0014
Tambach, T.J.; Veld, H.; Klaver, G.T.; van Os, B.J.H.; Griffioen, J.
 Quantification of sedimentary organic matter composition using Pollut Eval pyrolysis (cancelled)

BG0015; EGU2007-A-04482; BG1.05-1WE2P-0015
Grand-Clement, E.; Nortcliff, S.; Robinson, S.; Schwartz, D.; Brodowski, S.
 Black carbon in UK upland peat soils: a consequence of management fire?

BG0016; EGU2007-A-06694; BG1.05-1WE2P-0016
He, Y.; Zhang, G.-L.
 Concentration and source of black carbon in urban soils and its environment implications

BG0017; EGU2007-A-04297; BG1.05-1WE2P-0017
Thevenon, F.; Anselmetti, F. S.; Bernasconi, S.; Sigl, M.; Schwikowski, M.
 Black carbon aerosol determination from a European high-alpine glacier (Colle Gnifetti, Switzerland).

BG0018; EGU2007-A-09894; BG1.05-1WE2P-0018
Kaal, J.; Martinez-Cortizas, A.; Criado Boado, F.
 8000 years of fire-induced molecular modifications in Campo Lameiro (NW Spain)

BG0019; EGU2007-A-01273; BG1.05-1WE2P-0019
Rodionov, A.; Grabe, M.; Flessa, H.; Guggenberger, G.
 Distribution of black carbon in the northern terrestrial catchment of Siberia.

BG0020; EGU2007-A-02739; BG1.05-1WE2P-0020
Kuzyakov, Y.; Chen, H.; Subbotina, I.; Bogomolova, IN; Xu, X
 Decomposition of ¹⁴C labeled black carbon in soil and loess during two years

BG0021; EGU2007-A-03784; BG1.05-1WE2P-0021
Hilscher, A.; Knicker, H.
 How stable is Black Carbon? - An incubation experiment

BG1.07 Electron transfer processes in soils, sediments, and aquifers: concepts and cases (co-listed in SSS)

Convener: Blodau, C.
Co-Convener(s): Bauer, M., Griebler, C., Einsiedl, F.
Lecture Room 20 (N)
Chairperson: N.N.

8:30–8:45; EGU2007-A-01975; BG1.07-1WE1O-001
Peiffer, S.; Oldham, C.; Salmon, U.; Küsel, K.
The role of iron redox cycling in the natural acidification of ground water (solicited)

8:45–9:00; EGU2007-A-01720; BG1.07-1WE1O-002
Bauer, RD; Meckenstock, RU; Griebler, C
Degradation of organic contaminants in porous model aquifers - it is heterogeneity that matters

9:00–9:15; EGU2007-A-06482; BG1.07-1WE1O-003
Bauer, M; Macalady, D; Blodau, C
Electron transfer capacities and reaction kinetics of peat dissolved organic matter

9:15–9:30; EGU2007-A-08552; BG1.07-1WE1O-004
Alexandratos, A.; Behrends, B.; Van Cappellen, V.
Reduction of Uranium under Abiotic Iron Reducing Conditions – A Macroscopic and Spectroscopic Study

9:30–9:45; EGU2007-A-06945; BG1.07-1WE1O-005
Neumann, A.; Hofstetter, T. B.; Schwarzenbach, R. P.
Assessing Contaminant Reduction by Fe(II) associated with iron-bearing Clay Minerals using Nitroaromatic Probe Compounds and Infrared Spectroscopy

9:45–10:00; EGU2007-A-06186; BG1.07-1WE1O-006
Heimann, A.C.; Lloyd, J.R.; Jakobsen, R.
Hydrogen thresholds and bioenergetics of microbial As(V) and Fe(III) respiration

10:00 END OF SESSION

BG1.07 Electron transfer processes in soils, sediments, and aquifers: concepts and cases (co-listed in SSS) – Posters

Convener: Blodau, C.
Co-Convener(s): Bauer, M., Griebler, C., Einsiedl, F.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 10:30–12:00
Poster Area Foyer BG
Chairperson: N.N.

BG0022; EGU2007-A-02057; BG1.07-1WE2P-0022
Wilhartitz, I.C.; Mach, R.L.; Ryzinska, G.; Kirschner, A.K.T.; Stadler, H.; Herndl, G.J.; Szewzyk, U.; Farnleitner, A.H.
Ecological significance of microbial endokarst communities in groundwater from alpine karst aquifers

BG0023; EGU2007-A-02580; BG1.07-1WE2P-0023
Maiolini, B.; Bruno, M.C.; Carolli, M.; Silveri, L.
Effects of hydropreaking on the hyporheos of an Alpine stream: preliminary results

BG0024; EGU2007-A-02167; BG1.07-1WE2P-0024
Bosch, J.; Fritzsche, A.; Meckenstock, R.U.
Nanosized Iron(hydroxy)oxide Particles are readily reduced by iron-reducing Microorganisms

BG0025; EGU2007-A-01988; BG1.07-1WE2P-0025
Knorr, K.H.; Blodau, C.
Redox dynamics and electron flow budgets in a minerotrophic fen soil – effects of a drying and rewetting cycle

BG0026; EGU2007-A-08940; BG1.07-1WE2P-0026
Beer, J.; Blodau, C.
Geochemical constraints on anaerobic organic matter decomposition in a northern peatland

BG0027; EGU2007-A-05532; BG1.07-1WE2P-0027
Blodau, C.; Knorr, K.-H.
Experimental inflow of groundwater induces a 'biogeochemical regime shift' in iron rich and acidic sediments

BG0028; EGU2007-A-02789; BG1.07-1WE2P-0028
Fulda, B.; Knorr, K.H.; Bauer, M.; Blodau, C.
Effects of a drying and rewetting cycle on arsenic dynamics in a minerotrophic fen – a laboratory study

BG0029; EGU2007-A-06108; BG1.07-1WE2P-0029
Raber, M.; Bauer, M; Peiffer, S; Blodau, C
DOM induced iron and sulphate reduction promotes arsenic mobility in column experiments

BG0030; EGU2007-A-07048; BG1.07-1WE2P-0030
IMFELD, G.; Nijenhuis, I.; Nikolausz, M.; Weber, S.; Zeiger, S.; Richnow, H.
An integrated approach to assess in situ degradation of chlorinated ethenes in several geological units of a groundwater system

BG0031; EGU2007-A-08673; BG1.07-1WE2P-0031
Morasch, B.; Höhener, P.; Hunkeler, D.
Evidence for in situ degradation of mono- and polyaromatic hydrocarbons in alluvial sediments based on microcosm experiments with ¹³C-labeled contaminants

BG0032; EGU2007-A-04333; BG1.07-1WE2P-0032
Well, R.; Weymann, D.; Flessa, H.; von der Heide, C.; Konrad, C.; Walther, W.
Isotopic signatures and concentrations of dissolved NO₃⁻, N₂O and N₂ as indicators of denitrification history in aquifers

BG0033; EGU2007-A-04908; BG1.07-1WE2P-0033
Law, N.K.W.; Ansari, S.I.; Renshaw, J.C.; Pearce, C.I.; May, I.; Livens, F.R.; Lloyd, J.R.
Biotransformation of heavy metals, precious metal, and radionuclides

BG0034; EGU2007-A-08234; BG1.07-1WE2P-0034
Zhang, Y.; Slomp, C; Broers, H; Passier, H; Van Cappellen, P
Denitrification coupled to pyrite oxidation and implications for groundwater quality: a case study (Oostrum, the Netherlands)

BG0035; EGU2007-A-08210; BG1.07-1WE2P-0035
Kaasalainen, H.; Leivuori, M.
Pore water dynamics of iron and manganese in the northern Baltic Sea surface sediments

BG5.03 Application of stable isotopes in biogeosciences (co-listed in IG)

Convener: Böttcher, M.
Co-Convener(s): Bouillon, S., Buchmann, N.
Lecture Room 19
Chairperson: BOUILLON, S.

8:30–8:45; EGU2007-A-04524; BG5.03-1WE1O-001
Mutterlose, J.; Rexfort, A.
 Mesozoic belemnites re-visited: the limitations of a single approach

8:45–9:00; EGU2007-A-09685; BG5.03-1WE1O-002
Wynn, J.; Bird, M
 ^{13}C -natural abundance of soil organic carbon decomposition shows a significant difference in decomposition rates of C3- and C4-derived organic matter in mixed C3/C4 soils

9:00–9:15; EGU2007-A-06377; BG5.03-1WE1O-003
Sebilo, M.; Billen, G.; Mayer, B.; Mariotti, A.
 The role of the organic matter pool of agricultural soils in nitrate pollution : A multi-isotope approach

9:15–9:30; EGU2007-A-06545; BG5.03-1WE1O-004
Stelzer, S.; Richnow, R.; Nijenhuis, N
 Lines of Evidence for anaerobic MCB Degradation in contaminated Groundwater based on Stable Isotope Tools

9:30–9:45; EGU2007-A-09694; BG5.03-1WE1O-005
Mayer, B.; Shanley, J. B.; Bailey, S. W.; Mitchell, M. J.
 Identifying sources of streamwater sulfate after a summer drought in the Sleepers River watershed (Vermont, USA) using hydrological, chemical, and isotope approaches

9:45–10:00; EGU2007-A-03767; BG5.03-1WE1O-006
Mangalo, M.; Meckenstock, R.U.; Stichler, W.; Einsiedl, F.
 Stable isotope fractionation during bacterial sulfate reduction is governed by reoxidation of intermediates

10:00 COFFEE BREAK

Chairperson: BÖTTCHER, M.E.

10:30–10:45; EGU2007-A-03135; BG5.03-1WE2O-001
Krull, E.S.; Baldock, J.A.; Douglas, G.; Lamontagne, S.; McKirdy, D.M.
 Variable sources of organic matter in Australian estuaries: Can isotopes alone solve the problem?

10:45–11:00; EGU2007-A-03482; BG5.03-1WE2O-002
Daehnke, K.; Bahlmann, E.; Schlarbaum, T.; Emeis, K.
 Changes in biogeochemical processes in the Elbe estuary – assessment by means of stable nitrate isotopes

11:00–11:15; EGU2007-A-02106; BG5.03-1WE2O-003
Pedentchouk, N.; Sumner, W. Q.; Tipple, B.; Pagani, M.
 Distinct Differences between Modern Angiosperm and Gymnosperm Trees Based on Hydrogen and Carbon Isotope Values of Leaf Wax n-Alkanes

11:15–11:30; EGU2007-A-03441; BG5.03-1WE2O-004
Heuser, A.; **Eisenhauer, A.**
 From isotope geochemistry to isotope biochemistry: A case study on the use of Calcium isotopes in human urine as an indicator of bone demineralization

11:30–11:45; EGU2007-A-02509; BG5.03-1WE2O-005
Baggs, EM.; Wrage, N; Mair, L
 Stable isotope techniques for N₂O source partitioning: Recent advances and future challenges

11:45–12:00; EGU2007-A-01400; BG5.03-1WE2O-006
Lehmann, M.F.; Bourbonnais, A.; Butterfield, D.A.
 Nitrate N and O isotope anomalies in diffuse hydrothermal vent fluids

12:00 END OF SESSION

BG5.03 Application of stable isotopes in biogeosciences (co-listed in IG) – Posters

Convener: Böttcher, M.
 Co-Convener(s): Bouillon, S., Buchmann, N.
 Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 13:30–15:00

Poster Area Foyer BG

Chairperson: N.N.

BG0036; EGU2007-A-00587; BG5.03-1WE3P-0036
 Garcia, B.; Lemelle, L.; Rose-Koga, E.; Telouk, P.; Gillet, P.; Albareda, F.
 Tracing life using Mg isotopes

BG0037; EGU2007-A-05750; BG5.03-1WE3P-0037
Benbow, T.; Frew, R; Hayman, A
 Compound specific carbon and hydrogen isotope fractionation during solid phase extraction

BG0038; EGU2007-A-04220; BG5.03-1WE3P-0038
 Filot, M. S.; **Leuenberger, M. C.;** Pazdur, A.; Boettger, T.
 Rapid online equilibration method to determine the D/H ratios of nonexchangeable hydrogen in cellulose

BG0039; EGU2007-A-04191; BG5.03-1WE3P-0039
Leuenberger, M. C.; Valentino, F. L.; Uglietti, C.; Sturm, P.
 Measurement and Trend analysis of O₂, CO₂ and d¹³C of CO₂ from the High Alpine Research Station Jungfraujoch - a comparison with the observations from the remote site Puy de Dôme, France

BG0040; EGU2007-A-00494; BG5.03-1WE3P-0040
Khan, M.A.H.; Mead, M.I.; White, I.R.; Nickless, G.; Shallcross, D.E.
 Carbon isotope ratios of atmospheric halocarbons at Bristol urban background area

BG0041; EGU2007-A-03617; BG5.03-1WE3P-0041
Steinbach, J.; Mennecke, A.; Hermann, M.; Gerbig, C.
 Fractionation in airborne O₂/N₂-Measurements: Scaled Laboratory Tests

BG0042; EGU2007-A-08921; BG5.03-1WE3P-0042
Tarasova, O.A.; Elansky, N. F.; Brenninkmeijer, C.; Assonov, S.S.; Räckmann, T.
 Application of isotope analysis for atmospheric methane and CO sources identification in the TROICA campaigns

BG0043; EGU2007-A-05785; BG5.03-1WE3P-0043
Uchida, M.; Kumata, H.; Chikaraishi, S.; Kondo, M.; Murayama, S.; Saigusa, N.
 ^{13}C and ^{14}C isotopic signatures of plant derived organic molecule in forest fine aerosol: Implication for a proxy for photosynthetic carbon isotopic discrimination at ecosystem-scale

BG0044; EGU2007-A-02819; BG5.03-1WE3P-0044
Walter, S.; Röckmann, T.
 Hydrogen isotopologues at the West African coast of Mauritania

BG0045; EGU2007-A-05112; BG5.03-1WE3P-0045
Brunner, B.; Mielke, R. E.; Abbey, B.; Coleman, M.
 Degassing of sulfur dioxide during acid pyrite leaching: consequences on oxygen and sulfur isotope composition and S:Fe stoichiometry of solution chemistry

BG0046; EGU2007-A-01381; BG5.03-1WE3P-0046
Böttcher, M.E.; Ferdelman, T.G.
 Isotope biogeochemistry of sulfur cycling by the deep biosphere of Porcupine Seabight Coral Mounds (IODP Leg 307)

BG0047; EGU2007-A-01379; BG5.03-1WE3P-0047
Böttcher, M.E.; Voss, M.
 Biogeochemistry of light stable isotopes in sediments of the Pearl River Estuary, China

BG0048; EGU2007-A-01382; BG5.03-1WE3P-0048
Böttcher, M.E.; Wortmann, U.G.; Bernasconi, S.
 Isotope biogeochemistry of sedimentary sulfur in hypersulfidic carbonates (GAB, ODP Leg 182)

BG0049; EGU2007-A-04241; BG5.03-1WE3P-0049
Dale, A.W.; Brüchert, V.; Alperin, M.J.; Regnier, P.
 Reactive-transport modelling of stable sulphur isotope distributions in surface sediments of the Benguela upwelling system (Namibian shelf)

BG0050; EGU2007-A-02507; BG5.03-1WE3P-0050
Bouillon, S.; Borges, A.V.; Ralison, O.; Dehairs, F.; Middelburg, J.J.
 Origin of dissolved versus particulate organic carbon in tropical coastal ecosystems: a comparison of stable isotope data from different systems

BG0051; EGU2007-A-04171; BG5.03-1WE3P-0051
Schlarbaum, T.; Daehnke, K.; Bahlmann, E.; Emeis, K.
 Dissolved organic nitrogen in the Elbe River and estuary: results of nitrogen isotope investigations

BG0052; EGU2007-A-02912; BG5.03-1WE3P-0052
Gauthier, C.; Hatté, C.
 Suitability and reliability of isotopic biogeochemistry studies in paleoclimatology: focus on protocols

BG0053; EGU2007-A-07986; BG5.03-1WE3P-0053
Wilkes, H.; Vieth, A.; Elias, R.
 Assessment of biogeochemical processes in petroleum systems using the carbon and hydrogen isotopic composition of hydrocarbons

BG0054; EGU2007-A-00110; BG5.03-1WE3P-0054
Dorodnikov, M.; Fangmeier, A.; Kuzyakov, Y.
 Thermal stability of soil organic matter pools is not related to the biological availability of C and N under elevated CO₂

BG0055; EGU2007-A-01761; BG5.03-1WE3P-0055
Penning, H.; Conrad, R.
 Quantification of Carbon Flow by Stable Isotope Fractionation in Methanogenic Rice Field Soils

BG0056; EGU2007-A-09263; BG5.03-1WE3P-0056
Rock, L.; Ellert, B.H.
 Natural abundance N and O isotope composition of KCl-extractable soil nitrate from distinct agricultural treatments in southern Alberta, Canada

BG0057; EGU2007-A-08412; BG5.03-1WE3P-0057
Kramer, C.; Fienemann, M.; Glatzel, S.; Gleixner, G.
 Composition of soil microbial carbon sources in a temperate beech forest

BG0058; EGU2007-A-07963; BG5.03-1WE3P-0058
Ingwersen, J.; Poll, C.; Streck, T.; Kandeler, E.
 Dynamics of Litter Carbon Turnover in a Detritosphere - Model-based Evaluation of a ¹³C Microcosm Experiment

BG0059; EGU2007-A-05062; BG5.03-1WE3P-0059
Wang, L.; Macko, S.A.
 Natural abundance of ¹³C and ¹⁵N trends in Kalahari Transect

BG0060; EGU2007-A-00686; BG5.03-1WE3P-0060
Gamnitzer, U.; Schaeufele, R.; Schnyder, H.
 Observing carbon labelling kinetics in a temperate grassland ecosystem

BG0061; EGU2007-A-08327; BG5.03-1WE3P-0061
van Hardenbroek, M.R.; Gröcke, D.R.; Elias, S.A.
 Stable hydrogen and oxygen isotope ratios in water beetle chitin

BG0062; EGU2007-A-00540; BG5.03-1WE3P-0062
Nelson, D.; Hu, F.S.; Pearson, A.
 Carbon isotopic analysis of individual modern and fossil grass-pollen grains using a moving-wire combustion interface

BG0063; EGU2007-A-01279; BG5.03-1WE3P-0063
Cichocka, D.; Richnow, H.-H.; Nijenhuis, I.
 High variability of carbon stable isotope fractionation of chlorinated ethenes during microbial reductive dechlorination

BG0064; EGU2007-A-05234; BG5.03-1WE3P-0064
Wachniew, P.; Lokas, E.; Klisch, M.
 Isotopic evolution of dissolved inorganic carbon in a lowland river downstream of a large reservoir

BG5.09/CL49 Climate variability and the carbon cycle (past, present and future): The EuroCLIMATE Programme on multi-proxy reconstructions and coupled climate models at European and regional scales (co-organized by CL) (co-listed in CR & SSP) (including Outstanding Young Scientists & Vladimir Ivanovich Vernadsky Medal Lectures)

Convener: Bijma, J.
 Co-Convener(s): Turk, D., Ridgwell, A., Mollenhauer, G.
 Lecture Room 25
 Chairperson: BIJMA, J.

13:30–14:00; EGU2007-A-06598; BG5.09/CL49-1WE3O-001
Sinninghe Damsté, J.S.

Organic proxies for reconstruction of microbial evolution, past climatic and palaeoenvironmental conditions (Vladimir Ivanovich Vernadsky Medal Lecture) (solicited)

14:00–14:15; EGU2007-A-11626; BG5.09/CL49-1WE3O-002
Rohling, E.J.
 Progress in Palaeosalinity (solicited)

14:15–14:30; EGU2007-A-08965; BG5.09/CL49-1WE3O-003
Hippler, D.; Witbaard, R.; van Iperen, J. M.; Buhl, D.; Hansen-Klünder, M.; Frei, D.; Immenhauser, A.
 Seasonal records and temperature relationships from bivalve shell carbonates using Ca isotope and stable isotope ratio profiles

14:30–14:45; EGU2007-A-03804; BG5.09/CL49-1WE3O-004
Planchon, F.; Cardinal, D.; Borremans, C.; Hermans, J.; Dubois, P.; André, L.
 Mg isotopes fractionation processes in marine calcareous skeletons: methodology developments and preliminary results on echinoderms (sea urchin and starfish)

14:45–15:00; EGU2007-A-03414; BG5.09/CL49-1WE3O-005
Miller, P.; Giesecke, T.; Hickler, T.; Bradshaw, R.; Smith, B.; Sykes, M.
 Holocene Vegetation Dynamics in Sweden and Finland as Simulated by the Generalised Vegetation Model LPJ-GUESS (solicited)

15:00 COFFEE BREAK

Chairperson: RIDGWELL, A.

15:30–16:00; EGU2007-A-02832; BG5.09/CL49-1WE40-001

Stoll, H.M.; Shimizu, N.; Archer, D.; Ziveri, P.
Using coccolith chemistry to track coccolithophore productivity response to the PETM (Outstanding Young Scientist Lecture) (solicited)

16:00–16:30; EGU2007-A-03296; BG5.09/CL49-1WE40-002

Sluijs, A.
Early Paleogene transient global warming events, carbon cycle dynamics, biomarkers, and dinoflagellates – a potent mix (Outstanding Young Scientist Lecture) (solicited)

16:30–16:45; EGU2007-A-00665; BG5.09/CL49-1WE40-003

Kraev, G.; Rivkina, E.; Gilichinsky, D.
Is the Permafrost Pool of Greenhouse Gases disastrous?

16:45–17:00; EGU2007-A-11007; BG5.09/CL49-1WE40-004

Lassey, K R; Lowe, D C
The role of radiomethane (14CH₄) measurements in constraining the global methane source inventory

17:00 COFFEE BREAK

Chairperson: MOLLENHAUER, G.

17:30–17:45; EGU2007-A-03878; BG5.09/CL49-1WE50-001

Parekh, P.; Follows, M.J.; Dutkiewicz, S.; Ito, T.
Physical and biological regulation of the soft tissue pump

17:45–18:00; EGU2007-A-04060; BG5.09/CL49-1WE50-002

Brovkin, V.; Ganopolski, A.; Archer, D.; Rahmstorf, S.
Lowering of glacial pCO₂ in response to changes in oceanic circulation and marine biogeochemistry

18:00–18:15; EGU2007-A-03080; BG5.09/CL49-1WE50-003

Naughton, F.; Sanchez Goñi, M. F.; Duprat, J.; Cortijo, E.; Malaizé, B.; Joly, C.; Bard, E.; Rostek, F.; Turon, J-L.
Complex pattern of Heinrich events in the mid-latitudes of the North-east Atlantic explained by oceanic and atmospheric mechanisms

18:15–18:30; EGU2007-A-11320; BG5.09/CL49-1WE50-004

Svensson, A.; Andersen, K.K.; Bigler, M.; Clausen, H.B.; Dahl-Jensen, D.; Johnsen, S.J.; Rasmussen, S.O.; Röthlisberger, R.; Steffensen, J.P.; Vinther, B.M.
A new 60,000 year Greenland stratigraphic ice core chronology (solicited)

18:30–18:45; EGU2007-A-11244; BG5.09/CL49-1WE50-005

Beer, J.
Long-term Solar Variability Derived from Cosmogenic Radionuclides

18:45–19:00; EGU2007-A-07477; BG5.09/CL49-1WE50-006

Turnbull, J.; Miller, J.; Lehman, S.; Peters, W.; Tans, P.; Rayner, P.; Bousquet, P.; Ciais, P.; Cozic, A
14CO₂ as a diagnostic for vertical transport in atmospheric transport models

19:00 END OF SESSION

BG5.09/CL49 Climate variability and the carbon cycle (past, present and future): The EuroCLIMATE Programme on multi-proxy reconstructions and coupled climate models at European and regional scales (co-organized by CL) (co-listed in CR & SSP) (including Outstanding Young Scientists & Vladimir Ivanovich Vernadsky Medal Lectures) – Posters

Convener: Bijma, J.

Co-Convener(s): Turk, D., Ridgwell, A., Mollenhauer, G.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 10:30–12:00

Poster Area Foyer BG

Chairperson: N.N.

BG0065; EGU2007-A-05393; BG5.09/CL49-1WE2P-0065
Gumpenberger, M.; Bondeau, A.

Man-made fires over agricultural areas. Which importance they have for the global carbon cycle?

BG0066; EGU2007-A-02074; BG5.09/CL49-1WE2P-0066
Smith, D.; Kaduk, J.; Balzter, H.; Wooster, M.; Mottram, G.; Lynham, T.; Studens, J.

Carbon flux dynamics in boreal forest fire scars

BG0067; EGU2007-A-10613; BG5.09/CL49-1WE2P-0067
McDermitt, D.; Xu, L.; Madsen, R.; Demetriades-Shah, T.; Garcia, R.; Furtaw, M.

Feedback of ambient air CO₂ concentration on soil CO₂ efflux

BG0068; EGU2007-A-01972; BG5.09/CL49-1WE2P-0068
Weijers, J.W.H.; Schouten, S.; Sinninghe Damsté, J.S.

Novel proxies for continental palaeo temperature and soil pH based on tetraether membrane lipids of soil bacteria

BG0069; EGU2007-A-08121; BG5.09/CL49-1WE2P-0069
Kramer, C.; Hanson, P.J.; Trumbore, S.E.
Soil microbial carbon sources and Contribution of different microbial groups in soil carbon cycling

BG0070; EGU2007-A-00239; BG5.09/CL49-1WE2P-0070
Hansman, R.L.; Aluwihare, L.I.; Druffel, ERM; Griffin, S.; Pearson, A.; Shah, S.R.; Ingalls, A.E.
Investigation of prokaryotic metabolism in the deep ocean using natural abundance radiocarbon

BG0071; EGU2007-A-05880; BG5.09/CL49-1WE2P-0071
Uchida, M.; Eglinton, T.I.; Hayes, J.M.; Coppola, L.; Gustafsson, O. N.; Andersson, P.; Montlucon, D.

Hydrodynamic Controls on the Age and Composition of Terrestrial Organic Matter Distributed over the Washington Margin: Implication from compound-specific radiocarbon analysis

BG0072; EGU2007-A-11482; BG5.09/CL49-1WE2P-0072
Mollenhauer, G.; McManus, J. F.; Wagner, T.; McCave, I. N.; Eglinton, T. I.

Radiocarbon and Th-230 data reveal temporal changes in sediment focusing at ODP site 984

BG0073; EGU2007-A-07365; BG5.09/CL49-1WE2P-0073
Tisnérat-Laborde, N.; Paterne, M.; Métivier, B.

Radiocarbon as a tracer of strength of gyres in the Northeast Atlantic

BG0074; EGU2007-A-00467; BG5.09/CL49-1WE2P-0074
Jelen, D.; Kuc, T.; Necki, J.; Rozanski, K.; Zimnoch, M.
Radiocarbon in urban atmosphere: assessing fossil fuel CO₂ fluxes using combined measurements of CO₂, CO and 14CO₂/12CO₂ mixing ratios

BG0075; EGU2007-A-03249; BG5.09/CL49-1WE2P-0075
Kromer, B.; Björck, S.; Guibal, F.; Wohlfarth, B.; Beer, J.; Kaiser, K.F.; Kazmer, M.; Onac, B.
Dendrochronology, 14C time-scale and mechanisms of rapid climate change during the last deglaciation

BG0076; EGU2007-A-01372; BG5.09/CL49-1WE2P-0076
Namiotko, T.; Pichler, M.; Danielopol, D.L.; Roidmayr, G.;
 DecLakes Team, &
 An arctic ostracod species (Crustacea: Ostracoda) in Late
 Glacial and Early Holocene sediments of lake Mondsee
 (Austria)

BG0077; EGU2007-A-07200; BG5.09/CL49-1WE2P-0077
Lauterbach, S.; Brauer, A.; Dulski, P.; Nomade, J.; De-
 cLakes Participants
 Lateglacial climate changes in a sediment record from Lake
 Mondsee (Upper Austria)

BG0078; EGU2007-A-10518; BG5.09/CL49-1WE2P-0078
Kristen, I.; Dulski, P.; Haug, G. H.; Verschuren, D.
 High-resolution microfacies and μ XRF analysis of lacustrine
 sediments from the equatorial East African Lake Challa,
 spanning the last 1000 years (CHALLACEA, ESF
 programme EuroCLIMATE)

BG0079; EGU2007-A-04936; BG5.09/CL49-1WE2P-0079
Sinninghe Damste, J.S.; Ossebaar, J.; van Houten, R.; van
 der Meer, M.; Schouten, S.; Verschueren, D.
 Organic proxy records from Lake Challa (Mt. Kilimanjaro
 area) reveal continental climate change in tropical Africa
 since the last Glacial

BG0080; EGU2007-A-02270; BG5.09/CL49-1WE2P-0080
Ampel, L.; Wohlfarth, B.; Veres, D.; Risberg, J.
 Lake status changes as response to DO-cycles and Heinrich
 events, exemplified from Les Echets, France

BG0081; EGU2007-A-04488; BG5.09/CL49-1WE2P-0081
Fletcher, W.; Sánchez Goñi, M.F.
 Vegetation response to rapid climatic variability in the
 Alboran Sea region (W. Mediterranean) from 50 ka to
 present

BG0082; EGU2007-A-02349; BG5.09/CL49-1WE2P-0082
Möbius, J.; Emeis, K.-C.
 Amino acids, $\delta^{15}\text{N}$ and other biogeochemical proxies in sur-
 face sediments and cores from the eastern Mediterranean Sea

BG0083; EGU2007-A-03556; BG5.09/CL49-1WE2P-0083
Auliahherliaty, L.; Prins, M.A.; Ziveri, P.
 Late Holocene aeolian dust and coccolith stable isotope
 records from the Mediterranean Sea: does aerosol fertiliza-
 tion affect biological productivity?

BG0084; EGU2007-A-05968; BG5.09/CL49-1WE2P-0084
Ziveri, P.; Emeis, K.; Stoll, H.M.; Beaufort, L.; Triantaphyl-
 lou, M.; Meier, S.; Möbius, J.; Probert, I.
 Quaternary Marine Ecosystem Response to Fertilization
 (MERF) collaborative research project: overview and
 progress

BG0085; EGU2007-A-07805; BG5.09/CL49-1WE2P-0085
 Triantaphyllou, M.V.; Antonarakou, A.; Kontakiotis, G.;
 Dimiza, M.; Ziveri, P.; Mortyn, G.; Lianou, V.; Lyk-
 ousis, V.; Dermitzakis, M.D.
 Calcareous nannofossil and planktonic foraminiferal assem-
 blages and paleoecological reconstruction of sapropel S1 in
 SE Aegean Sea

BG0086; EGU2007-A-08093; BG5.09/CL49-1WE2P-0086
Malinverno, E.; Triantaphyllou, M.; Stavrakakis, S.;
 Ziveri, P.; Lykousis, V.
 Coccolithophore export production and flux at the south-
 western margin of Crete (Eastern Mediterranean)

BG0087; EGU2007-A-05574; BG5.09/CL49-1WE2P-0087
Kurbatova, J.; Varlagin, A.; Tatarinov, F.; Vygodskaya, N.;
 Oltchev, A.
 Climate variability and CO₂ exchange in southern European
 taiga

BG0088; EGU2007-A-08243; BG5.09/CL49-1WE2P-0088
Kern, Z.; Molnár, M.; Fórizs, I.; Peróiu, A.; Nagy, B.
 Geochemical and stratigraphic analysis of ice from Borpîg
 Ice Cave, Romania

BG0089; EGU2007-A-03834; BG5.09/CL49-1WE2P-0089
Tschumi, T.; Joos, F.; Parekh, P.; Mueller, S. A.
 Southern Ocean windstress and atmospheric CO₂

BG0090; EGU2007-A-04110; BG5.09/CL49-1WE2P-0090
Frey, M.M.; Morin, S.; Savarino, J.
 Nitrogen and triple oxygen isotopic composition of surface
 snow in Antarctica

BG0091; EGU2007-A-03896; BG5.09/CL49-1WE2P-0091
Parekh, P.; Joos, F.; Ritz, S.; Stocker, T.
 Biogeochemical response to a freshwater-induced weaken-
 ing of the meridional overturning circulation

BG0092; EGU2007-A-07551; BG5.09/CL49-1WE2P-0092
Van Meerbeeck, C.; Renssen, H.; Roche, D.M.
 Marine Isotope Stage 3 in a three-dimensional coupled earth
 system model: equilibrium climate simulations reveal the
 importance of freshwater forcing

BG0093; EGU2007-A-06793; BG5.09/CL49-1WE2P-0093
Núñez, N.; Rosell-Melé, A.
 Buried export productivity in the Last Glacial, a global
 reconstruction

BG0094; EGU2007-A-08445; BG5.09/CL49-1WE2P-0094
Svensen, H.; Planke, S.; Chevallier, L.; Malthes-
 Sørensen, A.; Jamtveit, B.; Corfu, F.; Polteau, S.
 A new model for rapid global climate changes: explosive
 venting of greenhouse gases from metamorphic aureoles
 around sills in volcanic basins, and its relevance for the
 PETM and the Toarcian global warming

BG0095; EGU2007-A-09067; BG5.09/CL49-1WE2P-0095
Lunt, D.J.; Valdes, P.J.; Ridgwell, A.
 Ocean circulation changes at the PETM: a fully coupled
 GCM study

BG0096; EGU2007-A-07686; BG5.09/CL49-1WE2P-0096
Gibbs, S.; Bralower, T.; Bown, P.
 Ocean acidification and calcareous nannoplankton at the
 Paleocene-Eocene Thermal Maximum

BG0097; EGU2007-A-06540; BG5.09/CL49-1WE2P-0097
Kluender, M. H.; Hippler, D.; Frei, D.; Witbaard, R.;
 Immenhauser, A.
 Trace element records in *Mytilus edulis* shells – a proxy for
 environmental conditions?

BG0098; EGU2007-A-07218; BG5.09/CL49-1WE2P-0098
Hiebenthal, C.; Wahl, M.; Eisenhauer, A.
 Ca Isotope Fractionation ($\delta^{44}\text{Ca}/^{40}\text{Ca}$) in Shells of
 the Bivalve *Mytilus edulis* as a Proxy for Temperature and
 Salinity

**BG6.06/NP6.09 Coupling biogeochemistry and ecology
 to fluid dynamics in aquatic ecosystems (co-organized by
 NP) (co-listed in OS)**

Convener: Berdalet, E.
 Co-Convener(s): Battin, T., Clercx, H., Piera, J., Richards,
 K., Seuront, L.
 Lecture Room 20 (N)
 Chairperson: BERDALET, E.

10:30–10:45; EGU2007-A-07658; BG6.06/NP6.09-
 1WE2O-001
Clercx, H.J.H
 Lagrangian Particle Dispersion in Homogeneously Stratified
 Turbulence (solicited)

10:45–11:00; EGU2007-A-06400; BG6.06/NP6.09-1WE2O-002
Seuront, L
 Plankton life and the multiple faces of turbulence (solicited)

11:00–11:15; EGU2007-A-04306; BG6.06/NP6.09-1WE2O-003
Colomer, J.; Serra, T.; Vidal, J.; Soler, M.; Casamitjana, X.
 Role of surface mixing in phytoplankton distribution in a stratified reservoir

11:15–11:30; EGU2007-A-09972; BG6.06/NP6.09-1WE2O-004
Roudesli, S.; Memery, L.; Gavart, M.; Giordani, H.; Levy, M.
 Dynamical impact on primary production variability at several spatio-temporal scales in the Northeast Atlantic Ocean

11:30–11:45; EGU2007-A-06269; BG6.06/NP6.09-1WE2O-005
Caradec, J.; L'Helguen, S.; Maguer, J.-F.
 Effects of mixing-induced irradiance fluctuations on nitrogen uptake by phytoplankton

11:45–12:00; EGU2007-A-02534; BG6.06/NP6.09-1WE2O-006
Omta, A.; Dijkstra, H.; Kooijman, B.
 The impact of (sub-)mesoscale eddies on the soft-tissue carbon pump

12:00 END OF SESSION

Climate: Past, Present, Future

CL1 Organic Carbon-Rich Marine Sediments Past, Present and Future : Oceans and Climate Feedbacks (co-listed in BG & SSP)

Convener: Negri, A.
 Co-Convener(s): Ferretti, A., Storch, P., Meyers, P., Wagner, T.
 Lecture Room 25
 Chairperson: NEGRI, A.

8:30–8:45; EGU2007-A-01543; CL1-1WE1O-001
NEGRI, A.

Why the study of organic carbon rich sediment

8:45–9:00; EGU2007-A-07546; CL1-1WE1O-002
Kemp, D. B.; Lodola, D.; Davies, R. B.; Hulka, C. M.; Kilner, B. R.; Sharland, P. R.; Simmons, M. D.; Sutcliffe, O. E.
 Eustatic, geodynamic and palaeoclimatic controls on organic-rich facies development: insights from the western former Soviet Union

9:00–9:15; EGU2007-A-07303; CL1-1WE1O-003
Wagner, T.; Beckmann, B.; Floegel, S.; Hofmann, P.
 Consequences of regional variations in Mid-Cretaceous hydrologic cycling on tropical Atlantic ocean redox and marine sedimentation

9:15–9:30; EGU2007-A-10272; CL1-1WE1O-004
Brumsack, H.-J.; Sangiorgi, F.; Brinkhuis, H.; Stein, R.; Schnetger, B.
 Paleogene black shales from the Central Arctic Ocean: A Black Sea analogue?

9:30–9:45; EGU2007-A-03257; CL1-1WE1O-005
Armstrong, HA.; Abbott, GD; Turner, BR; Makhlof, IM; Boyle, J; Muhammad, AB; Pedentchouk, N; Peters, H
 Black shale deposition in high latitude, peri-glacial shelf basins during Hirnantian (end Ordovician) deglaciation

9:45–10:00; EGU2007-A-06655; CL1-1WE1O-006
Brüchert, V.; **Dale, A**
 The challenge of distinguishing anoxia and euxinia by the chemical and isotopic composition of sedimentary sulfides

10:00 COFFEE BREAK

Chairperson: WAGNER, T.

10:30–10:45; EGU2007-A-08001; CL1-1WE2O-001
Kraal, P.; Slomp, C.P.; Forster, A.; Brumsack, H.-J.
 Phosphorus burial in marine sediments during the Cenomanian-Turonian Oceanic Anoxic Event (OAE-2)

10:45–11:00; EGU2007-A-02943; CL1-1WE2O-002
Lückge, A.; Scheeder, G.; Kasten, S.
 Productivity changes in the Arabian Sea during the past 650 years as consequence of reduced Indus River discharge

11:00–11:30; EGU2007-A-01798; CL1-1WE2O-003
Wignall, P
 Oceanic anoxia and mass extinction (solicited)

11:30–11:45; EGU2007-A-07063; CL1-1WE2O-004
Wille, M.; Nägler, T.F.; Schröder, S.; Lehmann, B
 Deep water upwelling and its implication for the Precambrian Cambrian boundary. Evidences from Molybdenum isotopes in black shales

11:45–12:00; EGU2007-A-10578; CL1-1WE2O-005
Stuart, FM.; Sephton, MA; Wignall, P
 Helium Isotopes in Norian-Rhaetian Shales from Black Bear Ridge: Evidence for the Manicouagan Impact Origin of a Late Triassic Biotic Crisis?

12:00 END OF SESSION

CL1 Organic Carbon-Rich Marine Sediments Past, Present and Future : Oceans and Climate Feedbacks (co-listed in BG & SSP) – Posters

Convener: Negri, A.
 Co-Convener(s): Ferretti, A., Storch, P., Meyers, P., Wagner, T.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: FERRETTI, A.

XY0211; EGU2007-A-10679; CL1-1WE5P-0211
Aceñolaza, F.G.; **Esteban, S.B.**
 Black carbonates in the Ediacaran-Lower Cambrian outcrops in Northwest Argentina

XY0212; EGU2007-A-07435; CL1-1WE5P-0212
Challands, T.; Armstrong, H.; Davies, J.; Wilson, D.; Owen, A.; Williams, M
 Climate belt reorganization, coastal upwelling, carbon sequestration and global climate change in the late Ordovician: a case study from the Welsh Basin, U.K.

XY0213; EGU2007-A-11246; CL1-1WE5P-0213
Vecoli, M.
 Palynological and geochemical characterization of Early Silurian "Hot Shales" in Southern Tunisia ("SEREPT" boreholes Tt 1 and Lg 3).

XY0214; EGU2007-A-11512; CL1-1WE5P-0214
Pittau, P.; Cotza, F.; Cristini, S.; Del Rio, M.
 Fossil distribution pattern and trace metal enrichments in the SOM of the deep basin Silurian black shales of Sardinia (Italy)

XY0215; EGU2007-A-11247; CL1-1WE5P-0215
Koren', T.N.; Sobolev, N.N.; Tolmacheva, T.Yu.; Petrov, E.O.
 Geodynamic settings and depositional environments of carbon rich sediments in Russia

XY0216; EGU2007-A-08722; CL1-1WE5P-0216
Luciani, V.; Cobianchi, M.
 The OAE1a at the slope-to-basin settings of the Apulia Platform Margin (southern Italy): regional record of the global oceanic anoxic event

XY0217; EGU2007-A-08927; CL1-1WE5P-0217
Luciani, V.; Cobianchi, M.
 The Albian oceanic anoxic events at the Apulian Platform Margin (southern Italy): regional record and global control

XY0218; EGU2007-A-09589; CL1-1WE5P-0218
Coccioni, R.; Luciani, V.
 Peculiar architectures in the Cretaceous planktonic foraminifera: links to oceanic anoxic events and major global changes

XY0219; EGU2007-A-09425; CL1-1WE5P-0219
Báldi, K.; Vető, I.
 Coupling of the benthic foraminifera *Cassidulina carinata* and hydrogen rich, isotopically heavy organic matter indicating algal blooms in the Mid Miocene Paratethys

XY0220; EGU2007-A-05181; CL1-1WE5P-0220
Capozzi, R.
 Role of sea-level controlled sedimentary processes on space and time distribution of organic carbon-rich marine sediments.

XY0221; EGU2007-A-03691; CL1-1WE5P-0221
Gallego-Torres, D.; Martinez-Ruiz, F.; Paytan, A.; Romero, O.; Jimenez-Espejo, F.J.; Ortega-Huertas, M.
 Evolution of conditions for sapropel deposition in the eastern Mediterranean from Pliocene to Holocene: Multiproxy study on paleoproductivity and paleoxygentanion.

XY0222; EGU2007-A-04576; CL1-1WE5P-0222
Marino, G.; Rohling, E.J.; Rijpstra, W.I.C.; Sangiorgi, F.; Brinkhuis, H.; Schouten, S.; Sinninghe Damsté, J.S.
 Major ecological changes in the eastern Mediterranean during the last interglacial sapropel S5

XY0223; EGU2007-A-07441; CL1-1WE5P-0223
Gennari, G.; Tamburini, F.; Spezzaferri, S.; Ariztegui, D.
 Geochemical signature of Sapropel S1 on the Cretan Ridge (Eastern Mediterranean).

XY0224; EGU2007-A-11511; CL1-1WE5P-0224
Porcu, A.M.; Pittau, P.; Cervato, C.; Melis, R.
 Holocene multiproxy paleoclimate record from lagoonal organic shales of the Gulf of Cagliari, south Sardinia, Italy

XY0225; EGU2007-A-01792; CL1-1WE5P-0225
Bond, D
 Sea level and marine anoxia during the Frasnian-Famennian (Late Devonian) mass extinction

XY0226; EGU2007-A-04903; CL1-1WE5P-0226
John, E.H.; Cliff, R.; Wignall, P.B.
 A comparison between two Late Devonian seawater ⁸⁷Sr/⁸⁶Sr curves over separate intervals of apparent perturbations in global carbon cycling

XY0227; EGU2007-A-08088; CL1-1WE5P-0227
Edwards, N.R.; Self, S.
 Can submarine super-eruptions lead to oceanic anoxic events?

XY0228; EGU2007-A-08037; CL1-1WE5P-0228
Gröcke, D.R.; van Hengstum, P.J.
 A high-resolution stable-isotope record of the Middle Devonian (Eifelian–Givetian boundary) Kacák Event: a global ocean anoxic event

XY0229; EGU2007-A-02796; CL1-1WE5P-0229
Mattioli, E.; Pittet, B.; Suan, G.
 Calcareous nannoplankton across the Early Toarcian anoxic event: implications for paleoceanography within the western Tethys

XY0230; EGU2007-A-05375; CL1-1WE5P-0230
Kuroda, J.; Ogawa, N.O.; Tanimizu, M.; Tejada, M.L.G.; Suzuki, K.; Ohkouchi, N.
 Carbon isotopic variation across the Livello Selli black shale: paleoenvironmental implications for the Early Aptian anoxic event (OAE-1a)

XY0231; EGU2007-A-07289; CL1-1WE5P-0231
Wagner, T.; Herrle, J.; Hofmann, P.; Schouten, S.; Stuesser, I.; Sinninghe Damsté, J. S.; Wallmann, K.
 Consequences of moderate 25,000 year lasting methane emission into the mid-Cretaceous ocean

XY0232; EGU2007-A-07871; CL1-1WE5P-0232
Van Bentum, E.C.; Hetzel, A.; Forster, A.; Reichart, G.-J.; Brumsack, H.-J.; Sinninghe Damsté, J.S.
 Reconstructing water column anoxia during the Cenomanian-Turonian boundary event using biomarker and trace metal proxies

XY0233; EGU2007-A-03588; CL1-1WE5P-0233
März, C.; Kasten, S.; Küster, K.; Beckmann, B.; Wagner, T.; de Lange, G.J.
 Rapid redox changes during Late Cretaceous black shale formation - A high-resolution geochemical study of OAE 3 (Demerara Rise)

XY0234; EGU2007-A-08157; CL1-1WE5P-0234
Papazzoni, C.A.; Ferretti, A.; Trevisani, E.
 The Eocene Fossil-Lagerstätte of Bolca (Italy): a guarantee of organic matter preservation?

CL10 Regional and Global Climate Impact of the Atlantic Ocean Variability (co-listed in OS)

Convener: Zhang, R.
 Co-Convener(s): Delworth, T., Sutton, R.
 Lecture Room 20 (N)
 Chairperson: SUTTON, R

15:30–15:45; EGU2007-A-06074; CL10-1WE4O-001
Wolff, E.W.
 The global climate imprint of rapid climate changes (Dansgaard-Oeschger and 8.2 kyr) centred in the North Atlantic (solicited)

15:45–16:00; EGU2007-A-01523; CL10-1WE4O-002
Dong, B.; Sutton, R. T.
 The impact of Atlantic ocean circulation on El Nino-Southern Oscillation (ENSO) variability (solicited)

16:00–16:15; EGU2007-A-09419; CL10-1WE4O-003
Knight, J.
 Simulation of the Atlantic Multidecadal Oscillation and its climate impacts compared to model responses to natural and anthropogenic forcings (solicited)

16:15–16:30; EGU2007-A-02090; CL10-1WE4O-004
Zhang, R.; Delworth, T. L.
 The impact of the Atlantic ocean variability on Indian summer monsoon rainfall

16:30–16:45; EGU2007-A-10371; CL10-1WE4O-005
Lohmann, G.; Laepple, T.; Kubatzki, C.; Dima, M.
 Dynamical sea-ice feedback for the Atlantic thermohaline circulation: Lessons from climate model perturbation experiments

16:45–17:00; EGU2007-A-04010; CL10-1WE4O-006
Haarsma, R.; Hazeleger, W
 Response of Tropical Atlantic Variability to a reduction of the Meridional Overturning Circulation

17:00 END OF SESSION

CL10 Regional and Global Climate Impact of the Atlantic Ocean Variability (co-listed in OS) – Posters

Convener: Zhang, R.
 Co-Convener(s): Delworth, T., Sutton, R.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: ZHANG, R.

XY0235; EGU2007-A-03354; CL10-1WE5P-0235
Dobrica, V.; Demetrescu, C.; Boroneant, C.
 Long-term temperature and precipitation variations in Romania. Correlation with the Atlantic Ocean variability

XY0236; EGU2007-A-04505; CL10-1WE5P-0236
Msadek, R.; Frankignoul, C.
 Low-frequency North Atlantic SST variability in the IPSL-CM4 climate model

XY0237; EGU2007-A-04658; CL10-1WE5P-0237
Richards, K.J.; Xie, S.-P.; Miyama, Y.
 The impact of variations in tropical Atlantic SST on the eastern tropical Pacific

XY0238; EGU2007-A-06710; CL10-1WE5P-0238
Krebs, U.; Timmermann, A.
 The role of air-sea coupling during glacial Heinrich event

XY0239; EGU2007-A-08263; CL10-1WE5P-0239
Hurkmans, R.; Durcik, M.; Troch, P.A.; Hirschi, M.; Seneviratne, S.I.
 Terrestrial storage changes and long-term climate variations in the Colorado basin

XY0240; EGU2007-A-08305; CL10-1WE5P-0240
 Hodson, D; **Sutton, R.;** Cassou, C; Keenlyside, N; Zhou, T
 Climate impacts of multidecadal change in Atlantic Sea Surface Temperature

XY0241; EGU2007-A-08494; CL10-1WE5P-0241
Boscolo, R.; Cattle, H.
 Climate Variability And Predictability Over The Atlantic Sector

XY0242; EGU2007-A-10770; CL10-1WE5P-0242
Vettoretti, G.; Peltier, R; Stastna, M; d'Orgeville, M
 The Tropical Climate Response to Fresh Water Induced Reductions is Atlantic Meridional Overturning Circulation

XY0243; EGU2007-A-11210; CL10-1WE5P-0243
Zhang, R.; Delworth, T. L.
 Influence of the Atlantic Ocean on the Northern Pacific Multidecadal Climate Variability

CL13/CL39 Large-scale climate modes in the Northern Hemisphere / Atmospheric teleconnections

Convener: Christiansen, B.
 Co-Convener(s): Ulbrich, U., Rambu, N., Kwasniok, F., Luterbacher, J.
 Lecture Room 14
 Chairperson: N.N.

8:30–9:00; EGU2007-A-02540; CL13/CL39-1WE1O-001
Dommenget, D
 How to detect climate modes (solicited)

9:00–9:15; EGU2007-A-08705; CL13/CL39-1WE1O-002
Corti, S.
 Model-simulated regimes over the Northern Hemisphere

9:15–9:30; EGU2007-A-03558; CL13/CL39-1WE1O-003
 Woollings, T.; Hoskins, B.; Blackburn, M.
 A new interpretation of the North Atlantic Oscillation

9:30–9:45; EGU2007-A-04095; CL13/CL39-1WE1O-004
Rivière, G.; Orlanski, I.
 Feedbacks of the high-frequency synoptic eddy activity onto the North Atlantic Oscillation

9:45–10:00; EGU2007-A-07498; CL13/CL39-1WE1O-005
Castanheira, J.M.; Liberato, M.L.R; Marques, C.F.; Graf, H.-F.
 Two time steps in the tropospheric northern annular variability

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-02715; CL13/CL39-1WE2O-001
Bellucci, A.; Gualdi, S.; Scoccimarro, E.; Navarra, A.
 The role of ocean circulation in setting the NAO variability in the INGV/CMCC coupled GCM.

10:45–11:00; EGU2007-A-03364; CL13/CL39-1WE2O-002
von der Heydt, A.; Dijkstra, H. A.
 Localization of multidecadal variability

11:00–11:15; EGU2007-A-07126; CL13/CL39-1WE2O-003
Lindesay, J.A.; Scaife, A.A.; Folland, C.K.
 Improving European winter temperature forecasts using NAO and ENSO teleconnections

11:15–11:30; EGU2007-A-10902; CL13/CL39-1WE2O-004
Hacker, J.; Hakim, G
 Extratropical forecast errors associated with tropical heating anomalies

11:30–11:45; EGU2007-A-08503; CL13/CL39-1WE2O-005
Maraun, D.; Kurths, J.; Holschneider, M.
 Cross Wavelet and Coherence Analysis of Coupling and Teleconnections

11:45–12:00; EGU2007-A-02488; CL13/CL39-1WE2O-006
 Wu, A.; **Hsieh, W.;** Boer, G.; Zwiers, F.
 Changes in the Arctic Oscillation under increased atmospheric greenhouse gases

12:00 END OF SESSION

CL13/CL39 Large-scale climate modes in the Northern Hemisphere / Atmospheric teleconnections – Posters

Convener: Christiansen, B.
Co-Convener(s): Ulbrich, U., Rambu, N., Kwasniok, F., Luterbacher, J.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0244; EGU2007-A-03756; CL13/CL39-1WE5P-0244
Raible, C. C.; Stocker, T. F.; Hofer, D.; Renold, M.; Yoshimori, M.
On the stability of large-scale atmospheric teleconnection patterns in reconstructions and ensemble GCM simulations of the last 500 yr

XY0245; EGU2007-A-09724; CL13/CL39-1WE5P-0245
Mainville, JM; Jones, CGJ; Dugas, BD
Evaluating the global atmospheric response to ENSO Sea Surface Temperature forcing as simulated by the Global Environmental Multi-scale Model (GEM).

XY0246; EGU2007-A-04756; CL13/CL39-1WE5P-0246
POMMIER, A.; SOTO, D.
Variations of the northern Atlantic climate dynamic. Assessment at two time scales : a modern and a past one

XY0247; EGU2007-A-10866; CL13/CL39-1WE5P-0247
Breiteig, T
The response in the North Atlantic Oscillation variability to a perturbed meridional overturning circulation

XY0248; EGU2007-A-03345; CL13/CL39-1WE5P-0248
Schmith, T.; Stendel, M.
Climatic Events in the North Atlantic and Arctic during the 20th Century: Internal versus External Variability

XY0249; EGU2007-A-08540; CL13/CL39-1WE5P-0249
Boscolo, R.; Cattle, H.
CLIVAR in the Pacific Ocean

XY0250; EGU2007-A-01254; CL13/CL39-1WE5P-0250
Kostopoulou, E.; van Loon, H.; Giannakopoulos, C
The Role of Sensible Heat Transport by the Stationary Waves in Climate Variability in the Northern Hemisphere.

XY0251; EGU2007-A-06760; CL13/CL39-1WE5P-0251
Pokorna, L.
Do the surface and mid-tropospheric modes of circulation variability have the same effect on the European climate?

XY0252; EGU2007-A-06853; CL13/CL39-1WE5P-0252
Rambu, N.; Lohmann, G.; Ionita, M.
Variability and potential predictability of the Northern Hemisphere atmospheric blocking and their relation with teleconnection patterns

XY0253; EGU2007-A-04337; CL13/CL39-1WE5P-0253
ORSOLINI, Y.; KVAMSTO, N.; KINDEM, I.
The Aleutian-Icelandic seesaw in ensemble GCM simulations

XY0254; EGU2007-A-08674; CL13/CL39-1WE5P-0254
Romanov, Yu.A.; Byshev, V.I.; Neiman, V.G.
On the contrary air temperature secular trends over continents and oceans in the northern hemisphere

XY0255; EGU2007-A-08872; CL13/CL39-1WE5P-0255
Ballester, J.; Rodó, X.; Cash, B
Potential sources of seasonal climate predictability in the Mediterranean Basin

XY0256; EGU2007-A-03928; CL13/CL39-1WE5P-0256
Hofer, D.; Raible, C. C.; Stocker, T. F.; Renold, M.; Kleppek, S.
The response of the northern hemispheric atmosphere to volcanic forcing in an ensemble of 1500 to 2000 AD simulations

XY0257; EGU2007-A-06601; CL13/CL39-1WE5P-0257
Christiansen, B.
The North Atlantic Oscillation or the Arctic Oscillation? Volcanic eruptions as Nature's own experiments

XY0258; EGU2007-A-03226; CL13/CL39-1WE5P-0258
Huth, R.; Pokorna, L.; Bochnicek, J.; Hejda, P.
Modes of low-frequency variability in the Northern Hemisphere in winter: A comparison of geomagnetic and solar effects

XY0259; EGU2007-A-10840; CL13/CL39-1WE5P-0259
Stanev, E. V.; Georgievski, G.
Sensitivity of climatic patterns in Europe to changes in coastal line and orography

XY0260; EGU2007-A-09798; CL13/CL39-1WE5P-0260
Bouwer, L.M.; Aerts, J.
Atmospheric circulation and peak river discharges in Europe

XY0261; EGU2007-A-06165; CL13/CL39-1WE5P-0261
Prömmel, K.; Widmann, M.; Jones, J.M.
Analysis of the (N)AO influence on alpine temperatures using a dense station dataset and a high-resolution simulation

XY0262; EGU2007-A-06330; CL13/CL39-1WE5P-0262
Ionita, M.; Lohmann, G.; Wiltshire, K.; Rambu, N
The influence of large-scale circulation on the variability of temperature, salinity and nutrients at Helgoland-Roads station

XY0263; EGU2007-A-06169; CL13/CL39-1WE5P-0263
Ólafsson, H.; Jónsson, T.
Seasonal temperature anomalies in the Iceland region – structure, persistence and connections with the large scale flow

XY0264; EGU2007-A-02382; CL13/CL39-1WE5P-0264
Lorenzo, M.N.; Taboada, J.J.
Links between circulation weather types and teleconnection patterns and their influence on the precipitation regime in Galicia (NW Spain)

XY0265; EGU2007-A-07641; CL13/CL39-1WE5P-0265
Lehmann, E.; Endler, C.; Leckebusch, G. C.; Ulbrich, U.; Nevir, P.
LOD - An independent Indicator for Climate Variability & Change ?

XY0266; EGU2007-A-08546; CL13/CL39-1WE5P-0266
Maraun, D.; Kurths, J.
Investigating Time-varying Teleconnections by Means of Phase Difference Analysis

XY0267; EGU2007-A-10569; CL13/CL39-1WE5P-0267
Halenka, T.
On the Spectral Structure of Circulation Patterns and Their Relations

CL16/GD14 East African geodynamics, climate and evolution (co-organized with GD) (co-listed in TS & SSP)

Convener: Trauth, M.
Co-Convener(s): Christensen, B., Glasmacher, U., Koehn, D., Maslin, M., Rumpker, G., Strecker, M.
Lecture Room 14
Chairperson: RUEMPKER, G.

13:30–13:45; EGU2007-A-08968; CL16/GD14-1WE3O-001
Sepulchre, P.; Ramstein, G.; Fluteau, F.; Schuster, M.; Tiercelin, J.-J.; Brunet, M.
 Modelling the impact of Eastern Africa elevation changes during the late Neogene : Climate and vegetation responses (solicited)

13:45–14:00; EGU2007-A-10401; CL16/GD14-1WE3O-002
Strecker, M.R.; Bergner, A.; Mortimer, E.; Trauth, M.H.
 Oblique rifting, drainage evolution, and lacustrine sedimentation in the East African Rift: implications for paleoclimate research

14:00–14:15; EGU2007-A-05462; CL16/GD14-1WE3O-003
Scholz, C.A.; Cohen, A.S.; Johnson, T.C.; King, J.; Peck, J.; Overpeck, J.T.; Talbot, M.R.
 Pan-African Megadroughts, Post-70 ka Climate Release, and the Expansion and Exodus of Early Modern Humans: Results of Deep Lake Drilling in East and West Africa (cancelled)

14:15–14:30; EGU2007-A-08672; CL16/GD14-1WE3O-004
Wynn, J.; Alemseged, Z.; Roman, D.
 The role of regional tectonics in determining paleoenvironments of human evolution in the Dikika Research Project area, Ethiopia.

14:30–14:45; EGU2007-A-08781; CL16/GD14-1WE3O-005
Bauer, F.; Glasmacher, U.A.; Reiners, P.; Nagudy, B.; Bechstaedt, T.
 Low-temperature thermochronology, uplift and denudation history of the East African Rift System with special emphasis to the Rwenzori Mtns, Uganda

14:45–15:00; EGU2007-A-06896; CL16/GD14-1WE3O-006
Link, K.; Rosenthal, A.; Foley, S.F.; Pearson, D.G.; Nowell, G.
 Isotopic constraints on the petrogenesis of the kamafugites of Uganda

15:00–15:15; EGU2007-A-05299; CL16/GD14-1WE3O-007
Trauth, M.H.; Maslin, M.; Deino, A.; Strecker, M.; Bergner, A.; Duehnforth, M.; Garcin, Y.
 High- and low-latitude forcing of Plio-Pleistocene East African climate and human evolution

15:15 COFFEE BREAK

Chairperson: TRAUTH, M.H.

15:30–15:45; EGU2007-A-06753; CL16/GD14-1WE4O-001
O'Halloran, A.; Nicholas, C. J.; Goodhue, R.
 Paleogene climate variations on the East African margin.

15:45–16:00; EGU2007-A-07393; CL16/GD14-1WE4O-002
Kaspar, F.; Cubasch, U.; Büchner, M.
 A comparison of tectonic, orbital and vegetation forcing on East African climate based on simulations with a global coupled ocean-atmosphere model

16:00–16:15; EGU2007-A-05221; CL16/GD14-1WE4O-003
Joordens, J.; Vonhof, H.; Feibel, C.; Quinn, R.; Lepre, C.; Kroon, D.
 Reconstruction of the local climate record in Plio-Pleistocene deposits at Koobi Fora (Kenya) improves age control for hominin evolution

16:15–16:30; EGU2007-A-06521; CL16/GD14-1WE4O-004
Görner, A.; Gloaguen, R.; Jolie, E.
 Non-climatic growth of Lake Beseka, Main Ethiopian Rift

16:30–16:45; EGU2007-A-07947; CL16/GD14-1WE4O-005
Larrasoana, J.C.; Roberts, A.P.; Rohling, E.J.; Winkhofer, M.
 A 3 Myr Mediterranean perspective on monsoon variability over the Sahara; implications for landscape and hominin evolution in tropical Africa

16:45–17:00; EGU2007-A-07216; CL16/GD14-1WE4O-006
Epp, L. S.; Trauth, M.; Tiedemann, R.; Graduate School GRK 1364, the
 Ancient and recent DNA from East African lakes: insights into a highly variable environment

17:00 END OF SESSION

CL16/GD14 East African geodynamics, climate and evolution (co-organized with GD) (co-listed in TS & SSP) – Posters

Convener: Trauth, M.
 Co-Convener(s): Christensen, B., Glasmacher, U., Koehn, D., Maslin, M., Rumpker, G., Strecker, M.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: TRAUTH, M.H.

XY0268; EGU2007-A-05036; CL16/GD14-1WE5P-0268
Rumpker, G.; Barifaijo, E.; RIFTLINK GROUP, THE
 The RIFTLINK project: studies on rift-dynamics, uplift and climate change in Western Uganda

XY0269; EGU2007-A-01439; CL16/GD14-1WE5P-0269
Roller, S.; Hornung, J.; Bieg, U.; Hinderer, M.
 Uplift history of the Rwenzori Mountains (Uganda) revealed from the sedimentary record of alluvial fans and adjacent rift-graben deposits

XY0270; EGU2007-A-06346; CL16/GD14-1WE5P-0270
Wölbern, I.; Batte, A.; Lindenfeld, M.; Jakovlev, A.; Twesigomwe, E.; Rumpker, G.; Kind, R.
 Rift-related uplift of the Rwenzori mountains in Uganda investigated by seismological methods

XY0271; EGU2007-A-07600; CL16/GD14-1WE5P-0271
Koehn, D.; Aaynu, K.; Haines, S.; Sachau, T.
 Rift nucleation, rift propagation and the creation of basement micro-plates within active rifts

XY0272; EGU2007-A-07347; CL16/GD14-1WE5P-0272
Sachau, T.; Koehn, D.
 Modeling extension-related regional vertical movements, on the example of the Rwenzori Mountains

XY0273; EGU2007-A-08664; CL16/GD14-1WE5P-0273
Brachert, T.C.; Jacob, D.E.; Kullmer, O.; Mertz, D.F.; Schrenk, F.; Semanda, I.
 Paleoclimate reconstruction for the East African Rift from geochemical studies of mammalian teeth

XY0274; EGU2007-A-07180; CL16/GD14-1WE5P-0274
Kaspar, F.
 Validation of a present-day regional climate simulation for East Africa

XY0275; EGU2007-A-06667; CL16/GD14-1WE5P-0275
Garcin, Y.; Trauth, M.H.
 Salty puddles and megalakes, the two faces of tropical lakes

XY0276; EGU2007-A-05588; CL16/GD14-1WE5P-0276
Marwan, N.; Junginger, A.; Trauth, M.; Bergner, A.; Garcin, Y.
 Recurrence in climate variability – a comparison of modern climate data from Nakuru, Kenya, with Early Holocene palaeo-climate records

XY0277; EGU2007-A-11038; CL16/GD14-1WE5P-0277
Bergner, A.G.N.; Trauth, M.; Strecker, M.R.; Deino, A.; Blisniuk, P.; Dühnforth, M.; Gasse, F.
 Tectonic and climate controls on the evolution of rift lakes in the Central Kenya Rift, East Africa

XY0278; EGU2007-A-09950; CL16/GD14-1WE5P-0278
Wolff, C.; Haug, G.; Plessen, B.; Kristen, I.; Verschuren, D.; CHALLACEA Participants, &
 Stable carbon and oxygen isotope records from Lake Challa (Kenya/Tanzania), covering the last 25 kyr BP

XY0279; EGU2007-A-01355; CL16/GD14-1WE5P-0279
Hailemichael, M.; Aronson, J.; Savin, S.
 Oxygen isotope study of Holocene soil carbonates of the Afar Depression and Ethiopian Western Plateau, Ethiopia

XY0280; EGU2007-A-04858; CL16/GD14-1WE5P-0280
Hujer, W.; PALAEOANTHROPOLOGICAL RESEARCH TEAM
 Lithostratigraphy and sedimentology of the hominid-bearing Pliocene Mount Galili Formation, southern Afar Depression, Ethiopia

XY0281; EGU2007-A-09612; CL16/GD14-1WE5P-0281
Ségalen, L.; Maurer, A-F.; de Rafélis, M.; Lee-Thorp, J.A.; Senut, B.; Pickford, M.; Person, A.; Renard, M.
 Geochemical investigations on biogenic materials from the Lukeino formation (Tugen Hills, Kenya) to assess the palaeoenvironment of the early hominid *Orrorin tugenensis*.

XY0282; EGU2007-A-02792; CL16/GD14-1WE5P-0282
O'Halloran, A.; Nicholas, C. J.; Goodhue, R.
 Nitrogen isotopes: Did climate change affect low latitude Paleogene plankton?

CL25 EPICA-MIS: EPICA ice cores, marine counterparts, and Quaternary Earth System Dynamics (co-listed in CR)

Convener: Raynaud, D.
 Co-Convener(s): Wolff, E., Fischer, H., Ridgwell, A., Schneebeli, M., Montagnat, M.
 Lecture Room 13 (F1)
 Chairperson: N.N.

8:30–8:45; EGU2007-A-05230; CL25-1WE1O-001
Parrenin, F.; Dreyfus, G.; Durand, G.; Fujita, S.; Jouzel, J.; Masson-Delmotte, V.; Kawamura, K.; Lhomme, N.; Ritz, C.; Schwander, J.
 Ice flow modelling at EPICA Dome C and Dome Fuji, East Antarctica

8:45–9:00; EGU2007-A-06680; CL25-1WE1O-002
Lemieux-Dudon, L.; Parrenin, P.; Blayo, E.
 A new inverse method to construct a common and optimal ice chronology for EPICA ice cores

9:00–9:15; EGU2007-A-03238; CL25-1WE1O-003
Stenni, B.; Selmo, E.; Masson-Delmotte, V.; Jouzel, J.; Braida, M.; Cattani, O.; Falourd, S.; Iacumin, P.; Johnsen, S. J.
 A 800 ky deuterium excess record from the EPICA Dome C ice core

9:15–9:30; EGU2007-A-08498; CL25-1WE1O-004
Kawamura, K.; Parrenin, F.; Lisiecki, L.; Raymo, M.; Uemura, R.; Vimeux, F.; Severinghaus, J.; Hutterli, M.; Jouzel, J.; Nakazawa, T.; Other members
 Northern Hemisphere insolation forcing of glacial cycles implied by absolute dating of Antarctic ice cores

9:30–9:45; EGU2007-A-07726; CL25-1WE1O-005
Hutterli, M. A.; Freitag, J.; Kawamura, K.; Kipfstuhl, S.; Röthlisberger, R.; Schneebeli, M.
 Absolute dating of ice cores based on the impact of local insolation on pore space geometry

9:45–10:00; EGU2007-A-09970; CL25-1WE1O-006
Schneebeli, M.; Matzl, M.; Sturm, M.
 The specific surface area in snow profiles

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-01977; CL25-1WE2O-001
Fischer, H.; Behrens, M.; Bock, M.; Schmitt, J.; Loulergue, L.; Chappellaz, J.; Spahni, R.; Blunier, T.; Leuenberger, M.; Stocker, T.
 What caused the glacial/interglacial CH₄ changes? Carbon isotopic constraints on methane sources from the EDML ice core

10:45–11:00; EGU2007-A-06596; CL25-1WE2O-002
Schmitt, J.; Fischer, H.; Behrens, M.
 What caused the CO₂ fluctuations of the preindustrial Holocene? Clues from the carbon isotopic composition of CO₂ from the EDML ice core

11:00–11:15; EGU2007-A-08846; CL25-1WE2O-003
Köhler, P.; Hönisch, B.; Fischer, H.
 The carbon cycle during the Mid Pleistocene Transition

11:15–11:30; EGU2007-A-02761; CL25-1WE2O-004
Eastgate, T.; **Sammonds, P.**
 Fabric and textural evolution within the EPICA ice cores: EDC and EDML

11:30–11:45; EGU2007-A-07384; CL25-1WE2O-005
De Angelis, M.; Morel-Fourcade, M.-C.; Susini, J.; Tison, J.-L.
 XRF elemental study of EPICA Dome C basal ice : Evidence of long term in situ processes

11:45–12:00; EGU2007-A-00204; CL25-1WE2O-006
Petit, J.R.; Delmonte, B.; Lambert, F.; Dreyfus, G.; Lemieux-Doudon, B.; Parrenin, F.; Debret, M.
 A chemical pace maker for dating Antarctic deep ice cores

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2007-A-03374; CL25-1WE3O-001
Gabrielli, P.; Boutron, C. F.; Marteel, A.; Petit, J. R.; Delmonte, B.; Gaspari, V.; Cescon, P.; Barbante, C.
 Rare Earth Elements as tracers of continental dust origin in EPICA Dome C ice during glacial and interglacial periods

13:45–14:00; EGU2007-A-05644; CL25-1WE3O-002
Winckler, G.; Anderson, R.F.; Mahowald, N.; Fleisher, M.Q.; McGee, D.
 500,000 years of coherent dust flux variations in the tropical Pacific Ocean and Antarctica

14:00–14:15; EGU2007-A-01736; CL25-1WE3O-003
Crosta, X.; Debret, M.; van Beek, P.; Courty, M.-A.; Denis, D.; Ther, O.; Petit, J.-R.
 Cyclic variations of Antarctic sea ice cover during the Holocene: Combination of solar and internal forcing

14:15–14:30; EGU2007-A-06925; CL25-1WE3O-004
Kleiven, H. F.; Ninnemann, U. S.; Førde, A.-E.
 The role of Southern Ocean dynamics in abrupt climate change revealed by decadal resolved records of sub Antarctic surface and intermediate water property changes 20-70 ka

14:30–14:45; EGU2007-A-06151; CL25-1WE3O-005
Wolff, E.W.; Fischer, H.; Lüthi, D.; Masson-Delmotte, V.
 The occurrence and structure of interglacials in the late Quaternary

14:45–15:00; EGU2007-A-03159; CL25-1WE3O-006
Hou, S.; Chappellaz, J.; Barnola, J.-M.; Louergue, L.; Dreyfus, G.; Masson-Delmotte, V.; Jouzel, J.; Li, Y.; Sun, B.; Xiao, C.
 Dome Argus (Antarctica): prospect for 1.5 million year old ice

15:00 END OF SESSION

CL25 EPICA-MIS: EPICA ice cores, marine counterparts, and Quaternary Earth System Dynamics (co-listed in CR) – Posters

Convener: Raynaud, D.
 Co-Convener(s): Wolff, E., Fischer, H., Ridgwell, A., Schneebeli, M., Montagnat, M.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0283; EGU2007-A-00567; CL25-1WE5P-0283
Brunjail, H.; Arnaud, L.; Montagnat, M.; Barnola, JM; Duval, P
 Snow metamorphism, firn densification and air content in ice from polar ice core. First results from Dome Concordia Station

XY0284; EGU2007-A-08285; CL25-1WE5P-0284
Sokratov, S.A.; Schneebeli, M.; Golubev, V.N.
 Change of isotopic content of snow by temperature gradient-induced water vapor diffusion

XY0285; EGU2007-A-09843; CL25-1WE5P-0285
Caburlotto, A.; DeSantis, L.; Giorgetti, G.; Macrì, P.; Tolotti, R.; Rebesco, M.
 Glacial dynamic changes inferred from marine sediments on the Wilkes Land continental margin (East Antarctica)

XY0286; EGU2007-A-06622; CL25-1WE5P-0286
Freitag, J.; Kipfstuhl, S.; Faria, S.H.
 In Situ X-Ray-micro-tomography of snow at the EPICA-drill site Dronning Maud Land (DML), Antarctica

XY0287; EGU2007-A-07249; CL25-1WE5P-0287
Kipfstuhl, S.; Freitag, J.
 Microstructure Mapping of Firn

XY0288; EGU2007-A-00669; CL25-1WE5P-0288
Louergue, L.; Barnola, J.M.; Blunier, T.; Parrenin, F.; Spahni, R.; Schilt, A.; Raisbeck, G.; Chappellaz, J.
 Uncertainties on gas chronologies with different scenario of accumulation and temperature for EPICA cores

XY0289; EGU2007-A-02267; CL25-1WE5P-0289
Luethi, D.; Siegenthaler, U.; Stocker, T.F.; Bereiter, B.; Blunier, T.; Raynaud, D.; Barnola, J.M.; Fischer, H.
 Millennial CO₂ Response on Antarctic Isotope Maxima in the EDML Ice Core

XY0290; EGU2007-A-02280; CL25-1WE5P-0290
Luethi, D.; Barnola, J.M.; Siegenthaler, U.; Stocker, T.F.; Bereiter, B.; Raynaud, D.
 Two distinct Intervals of CO₂ – Climate Relationship

XY0291; EGU2007-A-03413; CL25-1WE5P-0291
Schilt, A.; Louergue, L.; Spahni, R.; Blunier, T.; Chappellaz, J.; Stocker, T.
 Extended atmospheric CH₄ record from the EPICA Dronning Maud Land ice core

XY0292; EGU2007-A-04189; CL25-1WE5P-0292
Lourantou, A.; Lavric, J.V.; Barnola, J.-M.; Raynaud, D.; Paillard, D.; Chappellaz, J.
 Constraining the carbon budget challenge: New stable carbon isotope ratio data of CO₂ from Dome C ice over the last deglaciation: experimentation and interpretation

XY0293; EGU2007-A-06776; CL25-1WE5P-0293
Freitag, J.; Kipfstuhl, S.; Lambrecht, A.
 Direct Observations and Model Calculations of Air trapping in Polar Ice

XY0294; EGU2007-A-06665; CL25-1WE5P-0294
Le Floch, M.; Louergue, L.; Barnola, J.M.; Raynaud, D.; Chappellaz, J.; Spahni, R.; Mulvaney, R.
 CO₂ and CH₄ measurements on the Berkner ice core: a constrain for evaluating the continuity and the chronology of the record

XY0295; EGU2007-A-05158; CL25-1WE5P-0295
Ahn, J.; Headly, M.; Wahlen, M.; Brook, E. J.; Mayewski, P. A.; Taylor, K. C.
 CO₂ diffusion in polar ice: Observations from the Siple Dome ice core, Antarctica

XY0296; EGU2007-A-07318; CL25-1WE5P-0296
Knorr, G.; Lohmann, G.; Prange, M.; Barker, S.; Laepple, T.
 Dansgaard-Oeschger oscillations by sea-ice variations: A conceptual model approach

XY0297; EGU2007-A-05437; CL25-1WE5P-0297
Jung, S.J.A.; Kroon, D.; Ganssen, G.
 Interhemispheric asynchronous phasing of deep sea ventilation at the millennial scale during the last glacial period

XY0298; EGU2007-A-05162; CL25-1WE5P-0298
Waelbroeck, C.; Caillon, N.; Turon, J.-L.; Kissel, C.; Michel, E.; Cortijo, E.; Duprat, J.
 South Indian Ocean surface hydrology over marine isotopic stage 13 and 11: comparison with EPICA Dome C climatic record

XY0299; EGU2007-A-01616; CL25-1WE5P-0299
Divine, D.; Koc, N.; Isaksson, E.; Godtliessen, F.; Crosta, X.
 Holocene Antarctic climate variability from ice and marine sediment cores: insights to ocean-atmosphere interaction

Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Halls X/Y
 Chairperson: N.N.

XY0300; EGU2007-A-09600; CL25-1WE5P-0300
EPICA dating team, .; EPICA dating team
 High resolution synchronisation of the EDC and EDML EPICA ice cores volcanic stratigraphies in the framework of the construction of a common EPICA age scale.

XY0301; EGU2007-A-06289; CL25-1WE5P-0301
Loulergue, L.; Barnola, J.M.; Blunier, T.; Parrenin, F.; Spahni, R.; Schilt, A.; Raisbeck, G.; Chappellaz, J.
 Constraining the EPICA gas chronologies in stage 3 by the ¹⁰Be peak

XY0302; EGU2007-A-02203; CL25-1WE5P-0302
Rybak, O.; Huybrechts, P.; Pattyn, F.; Steinhage, D.
 Model-derived ice core chronology and non-climatic biases in the lower part of the EDML ice core

XY0303; EGU2007-A-02173; CL25-1WE5P-0303
Buiron, D.; Chappellaz, J.; Barnola, J.M.; Parrenin, F.; Ritz, C.; Petit, J.R.
 Constraint on the ice flow in the deepest part of the Vostok core through gas analysis

XY0304; EGU2007-A-00897; CL25-1WE5P-0304
Boereboom, T.; Samyn, D.; Kipfstuhl, S.; Wilhelms, F.; Tison, J-L.
 Gas properties of EPICA Dronning Maud Land (EDML) basal refrozen water

XY0305; EGU2007-A-03710; CL25-1WE5P-0305
Friedrich, R.; Wagenbach, D.; Aeschbach-Hertig, W.; Schwander, J.; Kipfstuhl, S.; Stauffer, B.
 He-isotope evidences in the basal layer of EPICA drill sites

XY0306; EGU2007-A-00948; CL25-1WE5P-0306
Castellano, E.; Severi, M.; Traversi, R.; Becagli, S.; Marino, F.; Morganti, A.; Udisti, R.; Lambert, F.; Kaufmann, P.; Ruth, U.
 Volcanic events as recorded in the EPICA DML and DC ice cores (East Antarctica): frequencies and depositional fluxes through the Holocene.

XY0307; EGU2007-A-00951; CL25-1WE5P-0307
Marino, F.; Maggi, V.; Delmonte, B.; Castellano, E.; Cecato, D.; De Deckker, P.; Revel-Rolland, M.; Ghermandi, G.; Udisti, R.; Petit, J.R.
 EPICA Dome C ice Dust vs Southern Hemisphere Potential Source Areas sediments: dust source identification and its geochemical evolution over the last two glacial cycles.

XY0308; EGU2007-A-03209; CL25-1WE5P-0308
Zangrando, R.; Gambaro, A.; Gabrielli, P.; **Barbante, C.;** Boutron, C. F.; Cescon, P.
 Monosaccharide Anhydrides determined at the pg/g level in EPICA Dome C ice

XY0309; EGU2007-A-06459; CL25-1WE5P-0309
Gaspari, V.; Cozzi, G.; Gabrielli, P.; Marteel, A.; Boutron, C.F.; Delmonte, B.; Petit, J.R.; Cescon, P.; Barbante, C.
 50 kyr of trace elements fall out over the Atlantic sector of Antarctica and differences in concentrations between dissolved/acid leachable and total metals between glacial and interglacial matrix

XY0310; EGU2007-A-06752; CL25-1WE5P-0310
Morganti, A.; Becagli, S.; Castellano, E.; Severi, M.; Traversi, R.; Udisti, R.; Fischer, H.; Fundel, F.; Ruth, U.; Kaufmann, P.; EPICA FIC-CFA Team
 High resolution biogenic sulphate record in the Holocene from EPICA-DML ice core

XY0311; EGU2007-A-07464; CL25-1WE5P-0311
Lambert, F.; Delmonte, B.; Petit, J.R.; Bigler, M.; Kaufmann, P.; Ruth, U.; Hutterli, M.; Steffensen, J.P.; Maggi, V.
 New insights on Antarctic Quaternary climate from high – resolution aeolian dust data from the EPICA – Dome C ice core

XY0312; EGU2007-A-07639; CL25-1WE5P-0312
Hansson, M.E.; de Angelis, M.; Fischer, H.; Steffensen, J.P.; Udisti, R.; Wolff, E.
 Methanesulfonate over eight glacial cycles

XY0313; EGU2007-A-07828; CL25-1WE5P-0313
Udisti, R.; Becagli, S.; Castellano, E.; Cerri, O.; Lucarelli, F.; Mannini, A.; Marino, F.; Morganti, A.; Nava, S.; Salviati, E.; CONCORDIA AEROSOL TEAM
 First results of all year-round aerosol sampling campaigns (2004/05 and 2005/06) performed at Dome C, central East Antarctica

XY0314; EGU2007-A-08628; CL25-1WE5P-0314
Cerri, O.; Becagli, S.; **Castellano, E.;** Chiari, M.; Lucarelli, F.; Mannini, A.; Morganti, A.; Rugi, F.; Salviati, E.; Severi, M.; CONCORDIA ATM-SNOW TEAM
 Atmosphere/snow transfer studies by all year-round aerosol, hoar and snow layers sampling at Dome C, East Antarctica

XY0315; EGU2007-A-09601; CL25-1WE5P-0315
Marino, F.; Nava, S.; Chiari, M.; Lucarelli, F.; Sala, M.; Artioli, G.; Maggi, V.; Castellano, E.; Rugi, F.; Udisti, R.
 Combined PIXE-PIGE analysis applied to geochemical characterization of ice dust and continental sediments.

XY0316; EGU2007-A-10450; CL25-1WE5P-0316
Ruth, U.; EPICA Dust-Intercomparison Team, and; EPICA Dust-Intercomparison Team
 EPICA Dust Intercomparison Project: A systematic comparison of different proxies and measurement techniques for mineral dust

CL7 Antarctica and the Global Climate System (co-listed in AS, CR & OS)

Convener: Naveira Garabato, A.
 Co-Convener(s): Turner, J., Mayewski, P.
 Lecture Room 13 (F1)
 Chairperson: N.N.

15:30–15:45; EGU2007-A-01364; CL7-1WE4O-001
Fyfe, J.

The Human Cause and Global Consequence of Southern Ocean Warming (solicited)

15:45–16:00; EGU2007-A-01637; CL7-1WE4O-002
Wells, N.; Blaker, A.; Sinha, B.; Ivchenko, V.
 Quick propagation of anomalies from the Antarctic Ocean to the Equatorial region (solicited)

16:00–16:15; EGU2007-A-09275; CL7-1WE4O-003
Gillett, N. P.; Kell, T. D.; Jones, P. D.
 Regional climate impacts of the Southern Annular Mode

16:15–16:30; EGU2007-A-06278; CL7-1WE4O-004
Bertler, N.A.N.
 El Nino and the Antarctic Oscillation – decadal variability in the Antarctic climate system (solicited)

16:30–16:45; EGU2007-A-06272; CL7-1WE4O-005
van Ommen, T.; Morgan, V.
 Connections between coastal East Antarctic snowfall and Southern Australian climate (solicited)

16:45–17:00; EGU2007-A-03084; CL7-1WE4O-006
Turner, J.; Bracegirdle, T.; Connolley, W.
 Weighted projections of Antarctic climate parameters for the end of the Twenty First Century

17:00 END OF SESSION

CL7 Antarctica and the Global Climate System (co-listed in AS, CR & OS) – Posters

Convener: Naveira Garabato, A.
Co-Convener(s): Turner, J., Mayewski, P.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0317; EGU2007-A-00817; CL7-1WE5P-0317

Screen, J.; Gillett, N.; Stevens, D.; Marshall, G.

The roles of eddies in determining the Southern Ocean response to the Southern Annular Mode

XY0318; EGU2007-A-03740; CL7-1WE5P-0318

Williams, A.; Bacon, S.; Naveira Garabato, A

A balance of Southern Ocean fluxes determined from a sub-basin scale Inverse Model

XY0319; EGU2007-A-06900; CL7-1WE5P-0319

Høland, H.; Ninnemann, U. S.; Euler, C. E.

Decadal to centennial scale variability in sub Antarctic surface and intermediate water properties during the mid Holocene

XY0320; EGU2007-A-08326; CL7-1WE5P-0320

Sparrow, M.; **Boscolo, R.**

The CLIVAR/CLIC/SCAR Southern Ocean Region Implementation Panel

XY0321; EGU2007-A-00377; CL7-1WE5P-0321

Lefebvre, W.; Goosse, H.

Analysis of the projected regional sea-ice changes in the Southern Ocean during the 21st century

XY0322; EGU2007-A-01471; CL7-1WE5P-0322

Goosse, H.; **Lefebvre, W.**

Evolution of the ice extent in the Southern Ocean during the last 100 years.

XY0323; EGU2007-A-09482; CL7-1WE5P-0323

Fusco, G.; Cotroneo, Y.; Budillon, G.; Spezie, G.

EOF analysis of meteorological fields in the Southern Ocean and their relationship to Southern and Antarctic Oscillation

XY0324; EGU2007-A-07894; CL7-1WE5P-0324

van Lipzig, N.P.M.; Van De Putte, T.; Demuzere, M.; Pattyn, F.

The climate of the Belgian research station in Antarctica from a regional atmospheric model

XY0325; EGU2007-A-09393; CL7-1WE5P-0325

Tymofeyev, V.

Regional warming at the Antarctic Peninsula as viewed against global changes

XY0326; EGU2007-A-04246; CL7-1WE5P-0326

Lachlan-Cope, T.; **Connolley, W.;** Turner, J.; Roscoe, H.; Marshall, G.; Colwell, S.; Hoepfner, M.; Ingram, W

Winter warming of Antarctic troposphere

XY0327; EGU2007-A-03328; CL7-1WE5P-0327

Connolley, W.; Bracegirdle, T

An assessment of IPCC AR4 coupled models over Antarctica

XY0328; EGU2007-A-01599; CL7-1WE5P-0328

Abram, N.J.; McConnell, J.; Mulvaney, R.; Wolff, E.W.

Ice core records of regional sea ice changes around Antarctica during the 20th century

XY0329; EGU2007-A-05412; CL7-1WE5P-0329

Costa, E.; Dunbar, R.B.; Mucciarone, D.A.; Manley, P.L.; Kryc, K.A.; Murray, R.W.; Brachfeld, S.; Leventer, A.; Roark, B.

A high resolution marine record of late Holocene climate variability from the East Antarctic Margin: core JPC17B (Adélie Drift)

XY0330; EGU2007-A-02764; CL7-1WE5P-0330

Genoni, L.; Stenni, B.; Proposito, M.; Flora, O.; Frezzotti, M.

A 150 year record of water stable isotopes from GV7, a near coastal site between Oates Coast and Talos Dome (East Antarctica)

XY0331; EGU2007-A-09420; CL7-1WE5P-0331

Sokratova, I.N.; Verkulich, S.R.; Melles, M.

Antarctic oases – sources of palaeoclimate information

XY0332; EGU2007-A-10369; CL7-1WE5P-0332

Stuut, J.B.W.; Hebbeln, D.

Antarctic timing of climate in the South-American subtropics

Cryospheric Sciences

CR70 Snow dynamics and snow-atmosphere exchange over Greenland and Antarctica (co-listed in AS & CL)

Convener: Heinemann, G.

Co-Convener(s): Ohmura, A., Neff, W.

Lecture Room 26

Chairperson: HEINEMANN

13:30–13:45; EGU2007-A-11296; CR70-1WE3O-001

Heinemann, G.; Ohmura, A.; Neff, W.

Introduction and oral poster presentations

13:45–14:00; EGU2007-A-09984; CR70-1WE3O-002

Bales, R.; Burkhardt, J.; Cahill, T.; McConnell, J.; Banta, R
Baseline measurements and results from the Greenland Summit Environmental Observatory (solicited)

14:00–14:15; EGU2007-A-09238; CR70-1WE3O-003

Neff, W.; Helmig, D.; Grachev, A.; Davis, D.

An overview of the effect of boundary layer processes on surface NO concentrations during ANTICI 2003

14:15–14:30; EGU2007-A-02414; CR70-1WE3O-004

Hagler, G.; Bergin, M.; Smith, E.; Dibb, J.; Anderson, C.; Griffin, R.; Schauer, J.; Shafer, M.; von Schneidmesser, E.; Steig, E

Measurement of atmospheric and snow-phase carbonaceous particulates and gases on the Greenland Ice Sheet

14:30–14:45; EGU2007-A-11266; CR70-1WE3O-005

Albert, M.; Inglis, G.; Dibb, J.; Li, L.; Gaiser, P.; Courville, Z.

Impact of seasonality on snow permeability and microstructure at Summit, Greenland

14:45–15:00; EGU2007-A-08190; CR70-1WE3O-006

Parlange, M.B.; Bou-Zeid, E.; Meneveau, C.; Huwald, H.; Chamecki, M.

Subgrid-scale physics under strongly stable atmospheric stratification: the SNOHATS experiment

15:00 END OF SESSION

CR70 Snow dynamics and snow-atmosphere exchange over Greenland and Antarctica (co-listed in AS & CL) – Posters

Convener: Heinemann, G.

Co-Convener(s): Ohmura, A., Neff, W.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Hall A

Chairperson: HEINEMANN

A0001; EGU2007-A-05817; CR70-1WE5P-0001

Bradley, S; Anderson, P

MOUSE: compact asymmetric bi-static SODAR for profiling CT2 and CV2 turbulence parameters

A0002; EGU2007-A-10970; CR70-1WE5P-0002

Town, M.; **Walden, V.**; Warren, S.

Energy transfer processes over the Antarctic Plateau

A0003; EGU2007-A-06712; CR70-1WE5P-0003

Hebbinghaus, H.; **Heinemann, G.**

Snow Drift and Snow Accumulation over Greenland, Simulations with the coupled Model System SNOWPACK/LM

A0004; EGU2007-A-07476; CR70-1WE5P-0004

Gallée, H.

Sensitivity of the antarctic surface mass balance to blowing snow processes

A0005; EGU2007-A-09646; CR70-1WE5P-0005

Kos, G.; Ariya, P. A.

Volatile organic compounds in snow and air during snow melt at Alert, Nunavut in spring 2006

A0006; EGU2007-A-11125; CR70-1WE5P-0006

Anderson, C.H.; Dibb, J.E.; Griffin, R.J.; **Hagler, G.S.W.**; Bergin, M.H.

Water-soluble organic carbon measurements at Summit, Greenland

CR130 Glaciology, climate, and oceanography of the Antarctic Peninsula and the sub-Antarctic (co-listed in CL & HS)

Convener: Kulesa, B.

Co-Convener(s): Sammonds, P., King, E.

Lecture Room 29

Chairperson: N.N.

15:30–15:45; EGU2007-A-07572; CR130-1WE4O-001

Vaughan, D.G.

Cryospheric impacts of climate change on the Antarctic Peninsula (solicited)

15:45–16:00; EGU2007-A-09287; CR130-1WE4O-002

Hubbard, A.; Le Brocq, A.; Hock, R.; Palmer, S.; Shepherd, A.; Purves, R.; Braun, M.; Vogt, S.; Hildes, D.; Wright, A
The dynamical response of the Warszawa Icefield to recent and predicted climate change (solicited)

16:00–16:15; EGU2007-A-04755; CR130-1WE4O-003

Kim, K. Y.; Hong, M. H.; Lee, J.; Hong, J. K.; Jin, Y. K.

Seismic experiments on the Fourcade Glacier in the King George Island, Antarctica

16:15–16:30; EGU2007-A-04509; CR130-1WE4O-004

Domack, E.; Leventer, A.; Ishman, S.; Brachfeld, S.; Huber, B.; Willmott, V.; Rebesco, M.; Zgur, F.; Halverson, G.; Rathburn, A.

Beneath the Larsen B Ice Shelf system: a marine perspective on a rapidly changing cryosphere (solicited)

16:30–16:45; EGU2007-A-03490; CR130-1WE4O-005

Zgur, F.; **Rebesco, M.**; Domack, E. W.; Willmott, V.

High resolution stratigraphic sequences within the inner Larsen B embayment: seismic imaging within the Crane Glacier (Spillane) Fjord and Hektoria Basin, former Larsen B area, Antarctica

16:45–17:00; EGU2007-A-01967; CR130-1WE4O-006

Hodgson, D

Palaeolimnological records of Holocene environmental change in the Antarctic Peninsula region

17:00 END OF SESSION

CR130 Glaciology, climate, and oceanography of the Antarctic Peninsula and the sub-Antarctic (co-listed in CL & HS) – Posters

Convener: Kulesa, B.

Co-Convener(s): Sammonds, P., King, E.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Hall A

Chairperson: N.N.

A0007; EGU2007-A-03645; CR130-1WE5P-0007

Kulesa, B.; Luckman, A.; King, E. C.; Sammonds, P. R.

Stability of Larsen C ice shelf is controlled by ice mechanical heterogeneity

A0008; EGU2007-A-02814; CR130-1WE5P-0008

Bailey, E.; Sammonds, P

A fracture mechanics model for the break-up of the Larsen Ice Shelf

A0009; EGU2007-A-06370; CR130-1WE5P-0009

Lampkin, D. J.; Carelton, A.

Potential for sea ice modulation of Antarctic coastal heat flux: implications for ice shelf stability

A0010; EGU2007-A-02603; CR130-1WE5P-0010

Breuer, B.; Blindow, N.; Lange, M.A.

Prognostic numerical studies for the ice dynamics of the temperate ice cap on King George Island, Antarctica

A0011; EGU2007-A-08144; CR130-1WE5P-0011

Weston, K.; Jickells, T.D.; Clarke, A.

New and regenerated primary production in a coastal Antarctic embayment, Marguerite Bay

A0012; EGU2007-A-06047; CR130-1WE5P-0012

Fink, D.; Mackintosh, A.; White, D.; Gore, D

Retreat of the East Antarctic Ice Sheet since the LGM – when and how much : a perspective from “dipstick” cosmogenic exposure dating at the Framnes and Prince Charles Mountains, MacRobertson Land.

CR170/GM1 Subglacial landforms: observations and modelling (co-organised in GM)

Convener: Tulaczyk, S.

Co-Convener(s): Stokes, C., Swift, D., Stroeven, A.

Lecture Room 26

Chairperson: N.N.

8:30–8:45; EGU2007-A-05645; CR170/GM1-1WE1O-001

Fowler, A.C.; **Gramberg, H.**

The formation of drumlins (solicited)

8:45–9:00; EGU2007-A-04620; CR170/GM1-1WE1O-002

Schoof, C

Drainage and drumlins (solicited)

9:00–9:15; EGU2007-A-05852; CR170/GM1-1WE1O-003

Brennand, T.A.; Lesemann, J.-E.; Sjogren, D.B.; Neudorf, C.M.

Testing hypotheses of drumlin genesis against observations from a drumlin swarm on the Thompson Plateau, British Columbia, Canada (solicited)

9:15–9:30; EGU2007-A-03118; CR170/GM1-1WE1O-004

Hindmarsh, R.C.A

Can a deforming bed theory produce realistically sized ribbed moraine? (solicited)

9:30–9:45; EGU2007-A-03929; CR170/GM1-1WE1O-005
Piotrowski, J.A.; Kristensen, T.B.; Klintoe, L.; Huuse, M.;
 Lykke-Andersen, H.; Clausen, O.R.
 Deep buried valleys in the North Sea indicate large-scale
 channelized subglacial drainage (solicited)

9:45–10:00; EGU2007-A-04709; CR170/GM1-1WE1O-006
Dowdeswell, J.A.; Evans, J.; Hogan, K.; Noormets, R.;
 Ottesen, D.; Ó Cofaigh, C.; Larter, R.D.
 Glaciers, ice sheets and the submarine geomorphic record
 on high-latitude continental margins (solicited)

10:00–10:15; EGU2007-A-10528; CR170/GM1-1WE1O-007
Andreassen, K.
 Three-dimensional imaging of landforms produced by ice
 streams draining former Eurasian ice sheets (solicited)

10:15 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-06999; CR170/GM1-1WE2O-001
Kleman, J
 Subglacial processes and the geomorphological impact of
 cold-based ice (solicited)

10:45–11:00; EGU2007-A-02470; CR170/GM1-1WE2O-002
Anandakrishnan, S; Catania, G; Horgan, H; Alley, R;
 Pollard, D; Parizek, B; Dupont, T
 Discovery and modeling of till deposition beneath Whillans
 Ice Stream and implications for ice dynamics. (solicited)

11:00–11:15; EGU2007-A-02903; CR170/GM1-1WE2O-003
King, E.C.; Woodward, J.; Smith, A.M.
 Seismic and radar observation of subglacial bedforms:
 active transverse moraine and drumlins beneath Rutford Ice
 Stream, Antarctica. (solicited)

11:15–11:30; EGU2007-A-05315; CR170/GM1-1WE2O-004
Tulaczyk, S.; Stokes, C.; Clark, C.; Lian, O.; O'Cofaigh, C.
 Origin and Internal Radar Structure of Ice Stream Bedforms
 from Nunavut, Canada

11:30–11:45; EGU2007-A-10758; CR170/GM1-1WE2O-005
Stroeven, A.P.; Kleman, J.; Fabel, D.; Clague, J.
 Dynamics of the Yukon sector of the northern Cordilleran
 ice sheet

11:45–12:00; EGU2007-A-08549; CR170/GM1-1WE2O-006
Fabel, D; Stroeven, A. P.; Harbor, J.; Hättestrand, C.;
 Kleman, J.; Dahlgren, T.
 Retreat rate of the northern Fennoscandian ice sheet margin.

12:00–12:15; EGU2007-A-00336; CR170/GM1-1WE2O-007
Jamieson, S.; Hulton, N.
 Ice sheets: victims of their own success?

12:15 END OF SESSION

CR170/GM1 Subglacial landforms: observations and modelling (co-organised in GM) – Posters

Convener: Tulaczyk, S.
 Co-Convener(s): Stokes, C., Swift, D., Stroeven, A.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00
 Poster Area Hall A
 Chairperson: N.N.

A0013; EGU2007-A-01618; CR170/GM1-1WE5P-0013
Stokes, C; Lian, O; Tulaczyk, S; Clark, C
 Superimposition of transverse ridges (ribbed moraines) on
 an ice stream bed: new observations and implications for ice
 stream dynamics and shutdown

A0014; EGU2007-A-01549; CR170/GM1-1WE5P-0014
O'Cofaigh, C.; Evans, D. J.; Smith, I.R.
 Large-scale reorganisation of fast-flowing ice sheet outlets
 on the Canadian Prairies during the last glacial cycle (so-
 licited)

A0015; EGU2007-A-03446; CR170/GM1-1WE5P-0015
Hindmarsh, R.C.A; Stokes, C.R.
 Mechanisms for the formation of lateral moraines in ice
 streams (solicited)

A0016; EGU2007-A-03695; CR170/GM1-1WE5P-0016
Lutz, R.; Kalka, S.; Gaedicke, Chr.; Reinhardt, L.
 Geomorphology of subglacial landforms revealed by 3D
 seismic data, German North Sea

A0017; EGU2007-A-04559; CR170/GM1-1WE5P-0017
Hess, D.; Briner, J.
 Spatial distribution of subglacial landform elongation in the
 New York Drumlin Field

A0018; EGU2007-A-05356; CR170/GM1-1WE5P-0018
Lastochkin, A.; **Krotova-Putintseva, A.**
 Subglacial geomorphology of the Antarctic.

A0019; EGU2007-A-10656; CR170/GM1-1WE5P-0019
Hillier, J.; Smith, M.
 Landscape-analysis based visualization of drumlins

A0020; EGU2007-A-10753; CR170/GM1-1WE5P-0020
Dunlop, P; Clark, C.D.; Hindmarsh, R.C.A
 The Bed Ribbing Instability Explanation (BRIE) - Testing
 a Numerical Model of Ribbed Moraine Formation Arising
 from Coupled Flow of Ice and Subglacial Sediment. (so-
 licited)

A0021; EGU2007-A-05999; CR170/GM1-1WE5P-0021
Lesemann, J.-E.; Brennand, T. A.
 Landform and sedimentary evidence of subglacial reservoir
 development and drainage along the southern margin of
 the Cordilleran Ice Sheet in British Columbia, Canada and
 northern Washington State, USA.

A0022; EGU2007-A-06568; CR170/GM1-1WE5P-0022
Kalka, S.; **Lutz, R.;** Feller, S.; Gaedicke, Chr.; Reinhardt, L.
 3D seismic imaging of buried valleys in the northern German
 North Sea - geometry, morphology and origin

A0023; EGU2007-A-07392; CR170/GM1-1WE5P-0023
Sørbel, LS
 Subglacial lakes and landforms beneath the Scandinavian
 ice sheet - examples from Norway

A0024; EGU2007-A-09423; CR170/GM1-1WE5P-0024
Sjogren, D.; Brennand, T.
 What controls esker formation on the Canadian Prairies?

A0025; EGU2007-A-10938; CR170/GM1-1WE5P-0025

Noormets, R.; Dowdeswell, J.A.; Evans, J.; Ó Cofaigh, C.; Larter, R.D.

Observations and implications of gully and channel systems on the outermost continental shelf and upper slope of West Antarctica

A0026; EGU2007-A-05361; CR170/GM1-1WE5P-0026

Goodfellow, B.W.; Stroeven, A.P.; Hättestrand, C.; Kleman, J.; Jansson, K.N.; Fabel, D.; Fredin, O.; Derron, M.-H. Relict non-glacial surfaces in formerly glaciated landscapes: dynamic landform systems?

A0027; EGU2007-A-11460; CR170/GM1-1WE5P-0027

Kleman, J.; Stroeven, AP

Spatial domains of the trimline, nunatak and frozen-bed concepts

A0028; EGU2007-A-03994; CR170/GM1-1WE5P-0028

Forieri, A.; Cianfarra, P.; Tabacco, I.E.; Salvini, F.; Zirizzotti, A.

Subglacial morphology and tectonic framework of the Transantarctic Mountains and the Wilkes and Aurora Basins inferred from RES profiles at latitudes 73°-74° S

A0029; EGU2007-A-09649; CR170/GM1-1WE5P-0029

Vieira, G.; Woronko, B.; Ferreira, A.B.

Geomorphology and sedimentology of moraines and tills of the Serra da Estrela (Portugal)

A0030; EGU2007-A-10872; CR170/GM1-1WE5P-0030

Hartmeyer, I.; Prasicek, G.; Geilhausen, M.; **Schrott, L.**

A sediment budget of a sandur in the forefield of the Pasterze glacier (Upper Tauern, Austria)

A0031; EGU2007-A-09172; CR170/GM1-1WE5P-0031

Kellerer-Pirklbauer, A.; Avian, M.; Slupetzky, H.

Geomorphic effects of ice avalanches: The event in 2003 at the glacier Nördliches Bockkarkees, Austria

A0032; EGU2007-A-01493; CR170/GM1-1WE5P-0032

Agatova, A.; **Nepop, R.**

Reconstruction of Late Pleistocene glaciation of Chagan-Uzun massif (SE Russian Altai) using geomorphological and physical methods.

Energy, Resources and the Environment

ERE3 Renewable resources in general

Convener: Bruckner, T.

Co-Convener(s): Held, H.

Lecture Room 2

Chairperson: BRUCKNER, T.

13:30–13:45; EGU2007-A-08205; ERE3-1WE3O-001

Domínguez, J.; García, X.; Pinedo, I.

Estimation of maximum contribution of renewable energies in Spain 2050

13:45–14:00; EGU2007-A-00166; ERE3-1WE3O-002

Biberacher, M.

Connection of TIMES models with GIS (solicited)

14:00–14:15; EGU2007-A-07820; ERE3-1WE3O-003

Goetzl, G.; Salcher, B.

Potential of Deep Heat Mining in the Austrian Alps – a Preliminary View on Chances and Difficulties of energetic utilization of the Thermal Regime at the Alpine Thrust Zone and its Nearby Vicinity

14:15–14:30; EGU2007-A-06147; ERE3-1WE3O-004

van Tongeren, P.; Laenen, B.; **Hildenbrand, A.**

The Heerlen Minewater Project - cold/heat storage in an abandoned coal mine

14:30–14:45; EGU2007-A-02573; ERE3-1WE3O-005

Breitkreuz, H.; Schroedter-Homscheidt, M.; Holzer-Popp, T.; Dech, S.

Application of Aerosol Forecasts for Solar Energy Industries

14:45–15:00; EGU2007-A-06942; ERE3-1WE3O-006

Wolf, D.; **Bruckner, T.**

Fluctuating wind energy feed-in and resulting specific CO₂-emissions of the conventional power system

15:00 END OF SESSION

ERE4 Advances in CO₂ storage in geological systems

Convener: Busch, A.

Co-Convener(s): Kühn, M., Etheridge, D.

Lecture Room 2

Chairperson: N.N.

8:30–8:45; EGU2007-A-08090; ERE4-1WE1O-001

Haszeldine, R.S.; Wilkinson, M.; Gilfillan, S.; Cavanagh, A.J.; Lu, J.; Shipton, Z.K.; Dockrill, B.; Burnside, N.; Fallick, A.E.; Ellam, R.M.

Natural CO₂ movement through seal and overburden as an analogue for engineered geological storage

8:45–9:00; EGU2007-A-03350; ERE4-1WE1O-002

Mito, S.; Xue, Z.; Ohsumi, T.

Evaluation of CO₂ geochemical reactions at an onshore saline aquifer, Nagaoka, Japan

9:00–9:15; EGU2007-A-04567; ERE4-1WE1O-003

Annunziatelli, A.; Beaubien, S.E.; Bigi, S.; Ciotoli, G.; Coltella, M.; Lombardi, S.

Gas migration along fault systems in the Latera natural analogue (central Italy): implications for CO₂ geological storage

9:15–9:30; EGU2007-A-05939; ERE4-1WE1O-004

Etheridge, D.; Leuning, R.; Luhar, A.; Steele, P.; Allison, C.; Spencer, D.; Fraser, P.; Dodds, K.; Sharma, S.

Atmospheric monitoring of geological storage of CO₂ at the Otway Basin Pilot Project, Australia

9:30–9:45; EGU2007-A-09250; ERE4-1WE1O-005

Hangx, S.J.T.; Spiers, C.J.

Compaction creep of wet granular feldspar aggregates and the effect of CO₂ injection

9:45–10:00; EGU2007-A-07199; ERE4-1WE1O-006

Audigane, P.; André, L.; Czernichowski-Lauriol, I.; Durst, P.; Gaus, I.; Lions, J.; Robelin, Ch.

Long term predictions of CO₂ migration and fluid rock interaction during CO₂-geological storage

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-11124; ERE4-1WE2O-001

Alkan, H.

Reactive Modelling of Chemical Retention and Caprock Seal Capacity for CO₂ Storage in Aquifers

10:45–11:00; EGU2007-A-00043; ERE4-1WE2O-002

Uelker, B.; Pusch, G.

Assessment of capillary entrapment and geological leakage in CO₂-aquifer storages

11:00–11:15; EGU2007-A-04289; ERE4-1WE2O-003

Kopp, A.; Ebigo, A.; Class, H.; Helmig, R.

Sensitivity Analysis of CO₂ Injection Processes in Brine Aquifers

11:15–11:30; EGU2007-A-09375; ERE4-1WE2O-004
SBAI, M. A.

Parallel simulation of three-dimensional convective mixing in long-term geological CO₂ storage in saline aquifers

11:30–11:45; EGU2007-A-10805; ERE4-1WE2O-005

Hoth, N.; Ehinger, S.; Muschalle, T.; Seifert, J.; Freese, C.; Schlömann, M.

A long-term transformation of sequestered CO₂ by deep microbial biocenosis?

11:45–12:00; EGU2007-A-08726; ERE4-1WE2O-006

Kronimus, A.; Busch, A.; Krooss, B.M.; Alles, S.; Juch, D.; Littke, R.

Evaluation of potential CO₂-storage options in coal seams of the Münster Cretaceous Basin, Germany

12:00 END OF SESSION

ERE5 Climate change impact on economical and industrial activities (co-listed in CL)

Convener: Parey, S.

Co-Convener(s): Morse, A., Rothstein, B.

Lecture Room 2

Chairperson: N.N.

15:30–15:45; EGU2007-A-08202; ERE5-1WE4O-001

Vescovi, L.; Roy, R.; Musy, A.

Climate change sciences in support of, vulnerability, impact and adaptation activities in Quebec, Canada

15:45–16:00; EGU2007-A-11523; ERE5-1WE4O-002

Morse, A.

Climate change impact in the European ENSEMBLES project

16:00–16:15; EGU2007-A-11180; ERE5-1WE4O-003

Faust, E.

Effects of warming Atlantic sea surfaces on tropical cyclone losses

16:15–16:30; EGU2007-A-04523; ERE5-1WE4O-004

Najac, J.; Terray, L.

A multimodel ensemble approach to assessment of climate change impacts on the wind energy resources in France using a statistical downscaling method

16:30–16:45; EGU2007-A-01788; ERE5-1WE4O-005

Castet, H.; Parey, S.

Energy consumption in different buildings in France under future climate conditions

16:45–17:00; EGU2007-A-08140; ERE5-1WE4O-006

Armitage, P.; Faulkner, D.; Worden, R.; Iliffe, J.

Caprock effects of geological sequestration of Carbon Dioxide

17:00 END OF SESSION

ERE6 Integrated assessment of energy options and risk assessment methodologies (co-listed in CL)

Convener: Held, H.

Co-Convener(s): Bruckner, T.

Lecture Room 2

Chairperson: HELD, H.

17:30–17:45; EGU2007-A-09942; ERE6-1WE5O-001

Zickfeld, K.; Held, H.; **Bruckner, T.**

Emissions corridors reducing the risk of reorganizations of the Atlantic meridional overturning circulation

17:45–18:00; EGU2007-A-03344; ERE6-1WE5O-002

Held, H.; Kriegler, E.; Lessmann, K.; Edenhofer, O.

Cost effective climate protection paths robust under uncertainties about the economic and climate system

18:00–18:15; EGU2007-A-06542; ERE6-1WE5O-003

Feck, T.; Groß, J.-U.; Riese, M.

The Impact of a H₂ Economy on Stratospheric Ozone Loss

18:15–18:30; EGU2007-A-10417; ERE6-1WE5O-004

Svirejeva-Hopkins, A.; Schellnhuber, H.-J.; Santos, F. D.

Dynamics of Anthropogenic Carbon Emissions and Urban Areas: Integrated Assessment

18:30–18:45; EGU2007-A-10848; ERE6-1WE5O-005

Knipping, E.M.; Duvall, M.; Clark, C.; Kumar, N.; Graham, R.

Integrated assessment of large-scale plug-in hybrid electric vehicle penetration on the electric sector and the environment

18:45–19:00; EGU2007-A-05821; ERE6-1WE5O-006

Tauxe, J.; Black, P.; Hanusik, V.

A Systems Modeling Approach for Performance Assessment of the Mochovce National Radioactive Waste Repository, Slovak Republic

19:00 END OF SESSION

Geochemistry, Mineralogy, Petrology & Volcanology

GMPV7 Explosive activity at basaltic volcanoes

Convener: Taddeucci, J.

Co-Convener(s): Spieler, O.

Lecture Room 21 (O)

Chairperson: TROLL, V.

15:30–15:45; EGU2007-A-02524; GMPV7-1WE4O-001

Behncke, B.; Calvari, C.; Neri, M.; Giammanco, S.

2006 summit eruptions of Mount Etna (Italy): rock and lava avalanches resulting from interaction of basaltic magma with external water

15:45–16:00; EGU2007-A-06175; GMPV7-1WE4O-002

Sottili, S.; Taddeucci, J.; Gaeta, M.; Palladino, D.M.; Scarlato, P.; Ventura, G.

Ultrapotassic magma and carbonate substratum: complex interactions during maar eruptions at the Colli Albani Volcanic District, Central Italy

16:00–16:15; EGU2007-A-07886; GMPV7-1WE4O-003

Downey, W.S.; Spieler, O.; Shaw, C.S.; Dingwell, D.B.

The experimental constraints on peperite formation and relationship to explosive volcanism: a new approach

16:15–16:30; EGU2007-A-04850; GMPV7-1WE4O-004

Troll, V.R.; Clarke, H.; Carracedo, J. C.

Textural features of changing eruptive styles from phreatomagmatic to strombolian activity of basaltic littoral cones: Los Erales cinder cone, Tenerife, Canary Islands (solicited)

16:30–16:45; EGU2007-A-08153; GMPV7-1WE4O-005

Viereck-Goette, L.; Schöner, R.; Bomfleur, B.; Schneider, J.; Abratis, M.; Elsner, M.; Gaupp, R.; Kerp, H.

Hydromagmatically dominated Hawaiian-type eruptions of andesitic magma associated with shallow level sill emplacement into wet sediments: Initiation of plateau-basalt volcanism in the Ferrar Province, Antarctica

16:45–17:00; EGU2007-A-06221; GMPV7-1WE4O-006
White, JDL; Garland, M
 Plumbing system of a Large Igneous Province: sills and dikes at Coombs Hills, Ferrar Province, Antarctica

17:00 COFFEE BREAK

Chairperson: POLACCI, M.

17:30–17:45; EGU2007-A-02096; GMPV7-1WE5O-001
Clague, D.
 Simultaneous Effusive and Strombolian Eruptions along Mid-Ocean Ridges

17:45–18:00; EGU2007-A-02312; GMPV7-1WE5O-002
Polacci, M.
 Large vesicles record pathways of degassing at basaltic volcanoes (solicited)

18:00–18:15; EGU2007-A-05336; GMPV7-1WE5O-003
James, M R; Lane, S J; Corder, S B
 Degassing low-viscosity magma: Quantifying the transition between passive bubble-burst and explosive activity (solicited)

18:15–18:30; EGU2007-A-08044; GMPV7-1WE5O-004
Allard, P.
 A CO₂-rich gas trigger of explosive paroxysms at Stromboli volcano (Italy)

18:30–18:45; EGU2007-A-02390; GMPV7-1WE5O-005
Barbato, D.; Longo, A.; Saccorotti, G.; Papale, P.; Barsanti, M.
 Numerical simulation of conduit dynamics during paroxysms at Stromboli

18:45–19:00; EGU2007-A-09365; GMPV7-1WE5O-006
Lesne, P.; Scaillet, B.
 An experimental study to determine solubility of C-H-O-S volatiles in basaltic Melts.

19:00 END OF SESSION

GMPV7 Explosive activity at basaltic volcanoes – Posters

Convener: Taddeucci, J.
 Co-Convener(s): Spieler, O.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 08:30–10:00
 Poster Area Hall A
 Chairperson: SPIELER, O.

A0033; EGU2007-A-00300; GMPV7-1WE1P-0033
Jahangiri, Ahmad
 The study of Sahand strata-volcanoes pyroclastic sequence in NW Iran (E.Azerbaijan Province).

A0034; EGU2007-A-02698; GMPV7-1WE1P-0034
Giordano, D.; Polacci, M.; Corsaro, R.A.; Pompilio, M.; Caricchi, L.; Russell, J.K.; Romano, C.
 Rheological controls on the evolution of the eruption dynamics at Mount Etna (Italy)

A0035; EGU2007-A-02940; GMPV7-1WE1P-0035
Spinetti, C.; Colini, L.; Mazzarini, F.; Favalli, M.; Isola, I.; Neri, M.; Behncke, B.; Pareschi, M. T.; Buongiorno, M. F.
 Characterization of Mount Etna volcanic superficial materials based on their spectral properties

A0036; EGU2007-A-03088; GMPV7-1WE1P-0036
Castro, J.M.; Rose, T.R.
 Degassing and crystallization of Kulanaokuaiki 3 tephra at Kilauea volcano, Hawaii: Insights from volatile contents and textural measurements (solicited)

A0037; EGU2007-A-03187; GMPV7-1WE1P-0037
Spieler, O.; Downey, W.; Mastin, L.; Dingwell, D.B.; Shaw, C.; Kunzmann, Th.
 The Surtseyan experiment – fragmenting basaltic melts.

A0038; EGU2007-A-04948; GMPV7-1WE1P-0038
Delcamp, A.; van Wyk de Vries, B.; Troll, V.R.
 Endogeneous and exogeneous evolution of Lemptegy cinder cone, Chaîne des Puys, France

Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 10:30–12:00

Poster Area Hall A
 Chairperson: TADDEUCCI, J.

A0039; EGU2007-A-05012; GMPV7-1WE2P-0039
Bazanov, L.I.; Puzankov, M.Yu.; Maksimov, A.P.
 Plinian basaltic andesite eruptions of Avachinsky volcano, Kamchatka, Russia: chronology, dynamics and deposits

A0040; EGU2007-A-05513; GMPV7-1WE2P-0040
Dolvik, T.; Höskuldsson, Á.; Kolka, P. V.
 Comparison of tephra from a crater row, pseudocraters and tephra fall-out, all tephra from a large effusive eruption, the Þrengslaborgir – Lútentsborgir eruption 2300 BP in Mývatn, N-Iceland

A0041; EGU2007-A-06953; GMPV7-1WE2P-0041
Taddeucci, J.; Andronico, D.; Cristaldi, A.; Scarlato, P.
 Fine analysis of fines: ash features of weak explosive activity at Etna in fall 2006.

A0042; EGU2007-A-07231; GMPV7-1WE2P-0042
Taddeucci, J.; Andronico, D.; Buettner, R.; Zimanowski, B.; Scarlato, P.
 An experimental investigation on the factors governing the genesis of basaltic ash.

A0043; EGU2007-A-09243; GMPV7-1WE2P-0043
Andronico, D.; Cristaldi, A.; Di Grazia, G.; Ferrari, F.
 The August-December 2006 eruption at Mt. Etna volcano (solicited)

Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 13:30–15:00

GMPV Poster Area
 Chairperson: N.N.

GMPV9 Magmatic differentiation: current ideas and future developments (including Robert Wilhelm Bunsen Medal Lecture)

Convener: Troll, V.
 Co-Convener(s): Gertisser, R., Charlier, B.
 Lecture Room 21 (O)
 Chairperson: TROLL, V.

8:30–9:00; EGU2007-A-07497; GMPV9-1WE1O-001
Blake, S.; Rogers, N.; Smith, I.; Wilson, C
 Rates, mechanisms and environments of fractional crystallization of basaltic magmas (solicited)

9:00–9:15; EGU2007-A-08634; GMPV9-1WE1O-002
Gregori, G.P.; Lupieri, M.; Poscolieri, M.
 The isotopic chemistry of basalts as a tool to inferring their origin and dynamics

9:15–9:30; EGU2007-A-08518; GMPV9-1WE1O-003
Meyer, R.; Hertogen, J.; Pedersen, R. B.; Nicoll, G.; Troll, V.; Abratis, M.; Viereck-Götte, L.
 Caesium as a geochemical tool to investigate continental crustal contaminations within LIPs.

9:30–9:45; EGU2007-A-02998; GMPV9-1WE1O-004
Meade, F.C.; Troll, V.R.; Ellam, R.M.; Font, L.; Chadwick, J.P.

Relative timing of crustal contamination processes: Carlingford Igneous Centre, Republic of Ireland

9:45–10:00; EGU2007-A-07179; GMPV9-1WE1O-005
Krause, J.; Brüggmann, G.E.; Pushkarev, E.V.
 Magma Mixing in Gabbros of Uralian-Alaskan-Type Complexes in the Ural Mountains, Russia: Lessons from Trace Element Variations in Clinopyroxene

10:00 COFFEE BREAK

Chairperson: GERTISSER, R.

10:30–11:00; EGU2007-A-04135; GMPV9-1WE2O-001
Freda, C.; Gaeta, M.; Scarlato, P.
 Crustal contamination during magmatic differentiation: the case of ultrapotassic magmas of Alban Hills (Central Italy) (solicited)

11:00–11:15; EGU2007-A-03213; GMPV9-1WE2O-002
Poli, G.; Perugini, D.; Petrelli, M.
 Viscous fingering during replenishment of felsic magma chambers by continuous inputs of mafic magmas: field evidence and fluid-mechanics experiments

11:15–11:30; EGU2007-A-01641; GMPV9-1WE2O-003
S³aby, E.; Götze, J.
 Cathodoluminescence and geochemical studies on crystal growth as a marker of magma mingling dynamics

11:30–11:45; EGU2007-A-00039; GMPV9-1WE2O-004
Solovova, I.P.; Giris, A.V.; Ryabchikov, I.D.
 Carbonatic melt and its genetic link with ultrapotassic rocks of the Dunkeldyk complex, southeastern Pamirs (Tajik Republic)

11:45–12:00; EGU2007-A-00038; GMPV9-1WE2O-005
Andreeva, I.A.; Kovalenko, V.I.; Yarmolyuk, V.V.
 Silicate-fluoride liquid immiscibility: evidence from melt inclusions study

12:00 LUNCH BREAK

Chairperson: CHARLIER, B.

13:30–14:00; EGU2007-A-06980; GMPV9-1WE3O-001
Gamble, J.; Price, R.; Smith, I.
 New Zealand Andesites: Priming the lithosphere for a supervolcano. (solicited)

14:00–14:15; EGU2007-A-08469; GMPV9-1WE3O-002
 Gardner, M.F.; Troll, V.R.; Hart, G.; Gamble, J.A.; Ellam, R.M.; Wolff, J.A.; Gertisser, R.
 Shallow-level processes at Krakatau volcano: crystallisation and late stage crustal contamination

14:15–14:30; EGU2007-A-08061; GMPV9-1WE3O-003
Ferlito, C.; Coltorti, M.; Cristofolini, R.; Giacomoni, P.P.
 The contemporaneous emission of low-k and high-k trachybasalts along the ne rift during the 2002 eruptive event (Etna, Sicily)

14:30–15:00; EGU2007-A-11605; GMPV9-1WE3O-004
 O'Neill, H.
 What can the variations in chemical composition among the Earth and other terrestrial planetary bodies tell us about how terrestrial planets form? (Robert Wilhelm Bunsen Medal Lecture) (solicited)

15:00 END OF SESSION

GMPV9 Magmatic differentiation: current ideas and future developments (including Robert Wilhelm Bunsen Medal Lecture) – Posters

Convener: Troll, V.
 Co-Convener(s): Gertisser, R., Charlier, B.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 15:30–17:00
 Poster Area Hall A
 Chairperson: N.N.

A0044; EGU2007-A-07224; GMPV9-1WE4P-0044
Nicoll, G.; Troll, V.; Donaldson, C.; Ellam, R.; Emeleus, H.
 Isotopic evolution of a large igneous centre; insights from the Isle of Rum, Scotland.

A0045; EGU2007-A-03904; GMPV9-1WE4P-0045
Meade, F.C.; Chew, D.M.; Troll, V.R.
 Magma ascent at a major terrane boundary: crustal contamination at the Drumadoon Intrusive Complex, Isle of Arran, Scotland

A0046; EGU2007-A-03870; GMPV9-1WE4P-0046
Troll, V.R.; Nicoll, G.R.; Meade, F.C.; Ellam, R.M.; Emeleus, C.H.; Font, L.; Donaldson, C.H.; Meighan, I.M.; Gamble, J.A.
 The British-Irish Palaeocene Igneous Province revisited: influence of crustal composition on differentiation processes across five major crustal terranes

A0047; EGU2007-A-00031; GMPV9-1WE4P-0047
Sharkov, E.
 Mechanisms of realization of physicochemical regularities during solidification of layered intrusions

A0048; EGU2007-A-01080; GMPV9-1WE4P-0048
Borodina, E.V.
 Using computer programs to model fractional differentiation in magma chambers. Estimation of layered intrusions parental magma

A0049; EGU2007-A-03222; GMPV9-1WE4P-0049
Perugini, D.; Petrelli, M.; Poli, G.
 Diffusive fractionation of trace elements by chaotic mixing of magmas

A0050; EGU2007-A-04083; GMPV9-1WE4P-0050
Allibon, J.; Bussy, F.; Lewin, E.
 Modelling of in-situ crystallisation processes in the PX1 Miocene pyroxenitic layered intrusion, root-zone of an ocean-island volcano, Fuerteventura

A0051; EGU2007-A-00212; GMPV9-1WE4P-0051
Helm, H.; Yoshikawa, M.; Shibata, T.; Arai, S.; Kagami, H.
 Petrology of the Genina Gharbia mafic-ultramafic intrusion, Eastern Desert, Egypt: insight to deep levels of late-Precambrian island arcs

A0052; EGU2007-A-00267; GMPV9-1WE4P-0052
Monsef, R.; Emami, M.H.
 The evolution and geochemical aspect of megaporphyritic basic- intermediate lava in Azerbaijan Iran

A0053; EGU2007-A-00809; GMPV9-1WE4P-0053
Kovalskaya, T.N.; Kovalsky, A.M.; Kotelnikov, A.R.
 Mineralogy and magmatic evolution of PR alkaline Tiksheozerskiy massif (Northern Karelia, Russia).

A0054; EGU2007-A-00964; GMPV9-1WE4P-0054
Konilov, A.N.; Somin, M.L.
 A record of Late Paleozoic regional metamorphism in the gneiss-migmatite core of the Great Caucasus

A0055; EGU2007-A-05558; GMPV9-1WE4P-0055
Gertisser, R.; Self, S.; Thomas, L.E.; Handley, H.K.
 U-series and Sr-Nd-Hf isotopic constraints on the petrogenesis of the 1815 Tambora magma

A0056; EGU2007-A-08763; GMPV9-1WE4P-0056
 Gardner, M.F.; Gamble, J.A.; Ellam, R.M.; Price, R.C.; Troll, V.R.
 Plumbing the roots of andesite volcanoes: evidence from short-duration eruptions in the Taupo Volcanic Zone, New Zealand.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Hall A
 Chairperson: N.N.

A0057; EGU2007-A-05444; GMPV9-1WE5P-0057
Castro, A.; Aragón, E.; Moreno-Ventas, I.; Fernández, C.
 Liquid immiscibility and magma flow in calc-alkaline glassy and plutonic rocks. Implications for magma rheology and differentiation in deep magma chambers

A0058; EGU2007-A-00725; GMPV9-1WE5P-0058
Belousov, I.; Portnyagin, M.; Mironov, N
 Composition and evolution of parental melt of Karymsky volcano (Kamchatka) inferred from study of melt inclusions in olivine

A0059; EGU2007-A-03707; GMPV9-1WE5P-0059
 Martin, E.; **Sigmarsson, O.**
 Crustal thermal state and origin of silicic magma in Iceland: the case of Torfajökull, Ljósufjöll and Snæfellsjökull volcanoes

A0060; EGU2007-A-04768; GMPV9-1WE5P-0060
Sørensen, E.V.; Sigmarsson, O
 Major and trace element composition of the Hvítserkur ignimbrite, E-Iceland: preliminary results

A0061; EGU2007-A-04202; GMPV9-1WE5P-0061
 Fernández-Soler, J.M.; **Acosta-Vigil, A.;** Gómez-Pugnaire, M.T.; Comas, M.C.
 Magma mixing in El Hoyazo volcanics, Betic Cordilleras, SE Spain

A0062; EGU2007-A-04409; GMPV9-1WE5P-0062
Acosta-Vigil, A.; Hermann, J.; Cesare, B.
 Distribution and partitioning of trace elements during crustal anatexis: a LA-ICP-MS study of metapelitic enclaves within El Hoyazo dacite, SE Spain

A0063; EGU2007-A-07323; GMPV9-1WE5P-0063
Wiesmaier, S.; Troll, V. R.; Hart, G. L.; Carracedo, J. C.; Wolff, J. A.
 Sr isotope systematics in feldspars from post-collapse lavas of the Pico Teide/Pico Viejo complex and associated rift zones, Tenerife, Canary Islands

A0064; EGU2007-A-09998; GMPV9-1WE5P-0064
Ribeiro, L.P.; França, Z.; Rodrigues, B.; Forjaz, V.H.
 First approach to geochemical study of São Jorge lavas, Azores

A0065; EGU2007-A-08770; GMPV9-1WE5P-0065
Pappalardo, L.; Mastrolorenzo, G
 Evolution and Opening of the Campi Flegrei super-volcano magma chamber.

A0066; EGU2007-A-10155; GMPV9-1WE5P-0066
Gagnevin, D.; Waight, T.E.; Daly, J.S.; Poli, G.; Conticelli, S.
 Complex magma differentiation history revealed by chemical and isotopic zoning in plagioclase phenocrysts from Capraia Volcano (Italy)

A0067; EGU2007-A-04183; GMPV9-1WE5P-0067
Ferlito, C.; Viccaro, M.; Cristofolini, R.
 Magma differentiation induced by volatile migration in the shallow plumbing system of active volcanoes: evidence from the 2001 eruption at Mt. Etna (Italy)

A0068; EGU2007-A-10700; GMPV9-1WE5P-0068
Altunkaynak, S.
 Origin of Eocene granitoid magmatism in Northwestern Turkey: evidence from Nd and Sr isotopes, and trace elements

Geodesy

G3 GRACE Science Applications

Convener: Bettadpur, S.
 Co-Convener(s): Cazenave, A., Flechtner, F.
 Lecture Room 6 (K)
 Chairperson: CAZENAVE, A.

8:30–8:45; EGU2007-A-07022; G3-1WE1O-001
Massmann (1), F.-H.; Beerer (2), J.; Tapley (3), B.; Reigber (1), C.
 GRACE mission status and future plans (solicited)

8:45–9:00; EGU2007-A-08524; G3-1WE1O-002
Wickert, J.; GRACE_RO_TEAM
 GPS radio occultation: Operational sounding of the atmosphere with GRACE (solicited)

9:00–9:15; EGU2007-A-07308; G3-1WE1O-003
Flechtner, F.; Schmidt, R.; Meyer, U.; Neumayer, K.H.; König, R.; Rothacher, M.; Kusche, J.
 The new EIGEN-GRACE05S (RL04) Gravity Field Time Series

9:15–9:30; EGU2007-A-04598; G3-1WE1O-004
Bettadpur, S.; CSR GRACE Level-2 Team
 Progress in analysis of latest generation gravity field models from GRACE

9:30–9:45; EGU2007-A-07672; G3-1WE1O-005
Schrama, E.J.O.; Wouters, B.; Lavalée, D.A.
 Signal and noise in four different GRACE solutions

9:45–10:00; EGU2007-A-01619; G3-1WE1O-006
Klokocnik, J.; Wagner, C. A.; McAdoo, D.; Kostelecky, J.; Bezdek, A.; Novak, P.
 Non-homogeneities in the accuracy of Earth gravity parameters from CHAMP, GRACE, and GOCE

10:00 COFFEE BREAK

Chairperson: BETTADPUR, S.

10:30–10:45; EGU2007-A-11476; G3-1WE2O-001
 Andersen, O.B.; Berry, P.; Freeman, J.; Butts, M.; Jakobsen, F.; Gottwein, P.B.; Lemoine, F.G.; Lutcke, S.B.
 Merging GRACE gravimetry, satellite altimetry and in-situ data for Terrestrial water storage and flood monitoring (solicited)

10:45–11:00; EGU2007-A-04079; G3-1WE2O-002
Schmidt, M.; Seitz, F.; Shum, C.K.; Wang, L.
 Modeling and Validation of GRACE Regional 4-D Hydrological Mass Variations

11:00–11:15; EGU2007-A-03104; G3-1WE2O-003
 Ramillien, G.; **Cazenave, A.;** Lombard, A.; Llovel, W.; Bereuter, P.; Schmidt, R.; Flechtner, F.; Biancale, R.; Lemoine, J.-M.
 Water volume change in major river basins from analysis of GRACE geoid data (solicited)

11:15–11:30; EGU2007-A-09280; G3-1WE2O-004
Lemoine, F.; Luthcke, S.; Chinn, D.; Klosko, S.; Rowlands, D
 Mascons and GRACE Hydrology Recovery

11:30–11:45; EGU2007-A-11014; G3-1WE2O-005
Famiglietti, J.; Chambers, D.; Frappart, F.; Nerem, S.; Rodell, M.; Swenson, S.; Velicogna, I.; Wahr, J
 Mass changes in earth's water storage reservoirs

11:45–12:00; EGU2007-A-04286; G3-1WE2O-006
Chambers, D. P.; Tamisiea, M. E.; Nerem, R. S.
 Measuring Variations in Mean Ocean Mass with GRACE

12:00 LUNCH BREAK

Chairperson: FLECHTNER, F.

13:30–13:45; EGU2007-A-04481; G3-1WE3O-001
Lombard, A.; Garcia, D.; Ramillien, G.; Cazenave, A.; Biancale, R.; Lemoine, J.M.; Flechtner, F.; Schmidt, R.; Ishii, M.
 Estimation of steric sea level variations from combined GRACE and Jason-1 data. (solicited)

13:45–14:00; EGU2007-A-08128; G3-1WE3O-002
Macrander, A.; The GRACE/OBP Validation Team
 Global Ground Truth Validation of GRACE Gravity Measurements by Ocean Bottom Pressure

14:00–14:15; EGU2007-A-10010; G3-1WE3O-003
Ivins, E.R.; Zlotnicki, V.; Wu, X.; Gross, R.S.; Dyurgorov, M.; Seo, K-W.; Rülke, A.; Dietrich, R.; Scheinert, M.; James, T.S.
 Reduction of GIA errors in GRACE and altimetry-based solutions for interannual ice mass balance for the Earth's ice sheets

14:15–14:30; EGU2007-A-11058; G3-1WE3O-004
Sandberg Sørensen, L.; Forsberg, R.
 Greenland ice sheet mass change from GRACE by inversion methods.

14:30–14:45; EGU2007-A-02653; G3-1WE3O-005
Müller, J.; Steffen, H.; Denker, H.
 Mass variations in areas of glacial isostatic adjustment on the Northern hemisphere from GRACE data

14:45–15:00; EGU2007-A-02896; G3-1WE3O-006
Sasgen, I.; Martinec, Z.; Fleming, K.
 Present-day regional mass changes in Antarctica from GRACE

15:00 END OF SESSION

G3 GRACE Science Applications – Posters

Convener: Bettadpur, S.

Co-Convener(s): Cazenave, A., Flechtner, F.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: FLECHTNER, F.

XY0333; EGU2007-A-07778; G3-1WE5P-0333
 Barthelmes, F.; Köhler, W.; **Kusche, J.**
 ICGEM - The International Centre for Global Earth Models

XY0334; EGU2007-A-01369; G3-1WE5P-0334
 WANG, 1; KLOTZ, 2; MORENO, 2; GRUND, 2; BOLTE, 2
 Precise orbit determination of Low Earth Orbiters based on Helmert transformation

XY0335; EGU2007-A-07315; G3-1WE5P-0335
Liu, X.; Ditmar, P.; Zhao, Q.
 A new variant of the acceleration approach for gravity field modeling from GRACE range measurements

XY0336; EGU2007-A-07259; G3-1WE5P-0336
Liu, X.; Ditmar, P.; Zhao, Q.
 Recovery of temporal gravity field variations from GRACE data with the range-rate combination approach

XY0337; EGU2007-A-06364; G3-1WE5P-0337
Swatschina, P.; Weber, R.
 Dynamic and Reduced-Dynamic LEO Orbit Determination

XY0338; EGU2007-A-10820; G3-1WE5P-0338
 Gooding, R.H.; Wagner, C.A.; Klokocnik, J.; Kostecky, J.; Gruber, C.
 CHAMP and GRACE Resonance Analysis

XY0339; EGU2007-A-04205; G3-1WE5P-0339
Gruber, C.; Bezdek, A.
 GRACE Gravity field recovery from simulated data with an alternative processing approach

XY0340; EGU2007-A-09945; G3-1WE5P-0340
Ardalan, A. A.; Hashemi, H.
 Spectroscopy analysis of the single satellite GRACE-1

XY0341; EGU2007-A-04129; G3-1WE5P-0341
Fleming, K.; Sasgen, I.; Martinec, Z.
 Comparison of filtering/de-stripping methods for GRACE gravity-field solutions

XY0342; EGU2007-A-04941; G3-1WE5P-0342
Pavlis, E. C.; Ciufolini, I.; Koenig, R.
 GRACE-enabled Space Geodetic Experiments for Fundamental Physics

XY0343; EGU2007-A-04148; G3-1WE5P-0343
Förste, Ch.; Flechtner, F.; Schmidt, R.; Biancale, R.; Lemoine, J.-M.; Stubenvoll, R.; Neumayer, H.; Loyer, S.; Rothacher, M.; Kusche, J.; THE EIGEN TEAM
 EIGEN-05C - A new global mean Gravity Field Model from Combination of Satellite Mission and Altimetry/Gravimetry Surface data

XY0344; EGU2007-A-02142; G3-1WE5P-0344
Sedighi, M.; Najafi Alamdari, M.; Djamour, Y.; Nankali, H. R.
 Comparison of geopotential models - A case study in Iran

XY0345; EGU2007-A-01660; G3-1WE5P-0345
Benahmed Daho, S. A.; Merry, C. L.
 New investigation on the choice of the tailored global geopotential model for Algeria

XY0346; EGU2007-A-03633; G3-1WE5P-0346
Breili, K.; Kristiansen, O.; Pettersen, B.R.
 Seasonal gravity variations observed by an absolute gravimeter - preliminary results

XY0347; EGU2007-A-02401; G3-1WE5P-0347
 Hunegnaw, A.; Roger Hipkin, R.; Dag Solheim, D; Ove Christian Dahl Omang, OCD
 Mean dynamic topography by an iterative combination technique

XY0348; EGU2007-A-10270; G3-1WE5P-0348

Knudsen, P.; Andersen, O.

Ocean tides in GRACE monthly averaged gravity fields

XY0349; EGU2007-A-10176; G3-1WE5P-0349

Virtanen, J.; Mäkinen, J.; Bilker-Koivula, M.; Virtanen, H.; Tervo, M.; Poutanen, M.

The effect of variation in Baltic sea level on GRACE gravity field solutions

XY0350; EGU2007-A-07908; G3-1WE5P-0350

Rietbroek, R.; LeGrand, P.; Wouters, B.

GRACE Validation with Bottom Pressure Records in the Southern Ocean

XY0351; EGU2007-A-07645; G3-1WE5P-0351

Homberg, A.; Esselborn, S.; Flechtner, F.

Temporal variability of oceanic mass balance in the Atlantic Ocean

XY0352; EGU2007-A-07713; G3-1WE5P-0352

Wouters, B.; Schrama, E.

Comparison of ocean heat variations from different GRACE products

XY0353; EGU2007-A-07223; G3-1WE5P-0353

Petrovic, S.; Schmidt, R.; Barthelmes, F.; Wünsch, J.; Kusche, J.

Periodic components of water stock changes in catchment areas from GRACE and global hydrology models

XY0354; EGU2007-A-07681; G3-1WE5P-0354

Virtanen, H.; Bilker-Koivula, M.; Mäkinen, J.; Tervo, M.; Virtanen, J.; Vehviläinen, B.; Huttunen, M.; Mäkinen, R.

Water storage models for Finland compared with GRACE and the time series of a superconducting gravimeter

XY0355; EGU2007-A-11015; G3-1WE5P-0355

Syed, T.; Famiglietti, J.; Zlotnicki, V.; Rodell, M.

Continental freshwater discharge from GRACE

XY0356; EGU2007-A-10374; G3-1WE5P-0356

Fleitout, L.

Grace data over Canada and post-glacial rebound

XY0357; EGU2007-A-04827; G3-1WE5P-0357

Panet, I.; **Mikhailov, V.;** Diamant, M.; Pollitz, F.; King, G.; de Viron, O.; Holschneider, M.; Biancale, R.; Lemoine, J-M.

Co-seismic and post-seismic signatures of the Sumatra December 2004 and March 2005 earthquakes in GRACE satellite gravity

16:15–16:30; EGU2007-A-10261; G9-1WE4O-004

Knudsen, P.; Andersen, O.

Ocean tides in GRACE monthly averaged gravity fields (solicited)

16:30–16:45; EGU2007-A-11111; G9-1WE4O-005

Moore, P.; King, M. A.

Tidal Aliasing Corrections for Ice-Mass Balance Estimates over Antarctica

16:45–17:00; EGU2007-A-10154; G9-1WE4O-006

Melachroinos, S. A.; THE GRGS LOADING TEAM

Ocean tide loading (OTL) displacements from global and local grids : comparison to GPS estimates

17:00 END OF SESSION

G9 Current state of ocean tide modelling – Posters

Convener: Schrama, E.

Co-Convener(s): King, M.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: KING, M.

XY0358; EGU2007-A-03343; G9-1WE5P-0358

Lysaker, D. I.; Breili, K.; Gjevestad, J. G.; Omang, O. C.; Pettersen, B. R.

Ocean tide loading along the Norwegian coast

XY0359; EGU2007-A-03656; G9-1WE5P-0359

Breili, K.; Lysaker, D.I.; Pettersen, B.R.

Ocean tide loading models for coastal gravity observations

XY0360; EGU2007-A-05694; G9-1WE5P-0360

Niedzielski, T.; Kosek, W.

Prediction of sea level anomalies from TOPEX/Poseidon and Jason-1 satellite altimetry by combinations of least-squares extrapolation and stochastic forecasting methods

XY0361; EGU2007-A-05736; G9-1WE5P-0361

Barkin, Yu.V.

To explanation of annual variation of mean sea level

XY0362; EGU2007-A-07151; G9-1WE5P-0362

Barkin, Yu.V.

About some mechanisms of the mean global sea level rise

G9 Current state of ocean tide modelling

Convener: Schrama, E.

Co-Convener(s): King, M.

Lecture Room 6 (K)

Chairperson: SCHRAMA E.

15:30–15:45; EGU2007-A-08168; G9-1WE4O-001

Andersen, O. B.

Global and local tide modeling. Linear and non-linear tides from altimetry and GPS (solicited)

15:45–16:00; EGU2007-A-11260; G9-1WE4O-002

Lyard, F.; Le Bars, Y

Today's global and regional tidal modelling: progresses and challenges (solicited)

16:00–16:15; EGU2007-A-07529; G9-1WE4O-003

Thomas, M.; Dobslaw, H.

On the consideration of ocean tides in a baroclinic OGCM (solicited)

Geodynamics

GD01 Geodynamics and Geochemistry of the Early Earth (co-listed in TS & GMPV)

Convener: van Hunen, J.

Co-Convener(s): Samuel, H., Parman, S.

Lecture Room 23

Chairperson: N.N.

15:30–15:45; EGU2007-A-01521; GD01-1WE4O-001

Samuel, H.; Tackley, P J

Core Formation in Terrestrial Planets by Negative Diapirism

15:45–16:00; EGU2007-A-01909; GD01-1WE4O-002

Golabek, G.; Schmeling, H.

Earth's core formation aided by flow channelling induced by Rayleigh-Taylor instabilities

16:00–16:15; EGU2007-A-11430; GD01-1WE4O-003

Porcelli, D.; Elliott, T.

Continuing He/U fractionation in the mantle and the generation of high $^3\text{He}/^4\text{He}$ ratios in ocean island basalts (solicited)

16:15–16:30; EGU2007-A-03920; GD01-1WE4O-004
Stroncik, N.A.; Niedermann, S.; Haase, K.M.
 Helium and neon isotopes as tracers of mantle evolution,
 mantle dynamics and mantle reservoirs

16:30–16:45; EGU2007-A-10799; GD01-1WE4O-005
Harrison, T.M.; McCulloch, M.T.; Freeman, J.; Mojz-
 sis, S.J.
 Origin and evolution of the Hadean crust (solicited)

16:45–17:00; EGU2007-A-05927; GD01-1WE4O-006
Davaille, A.; Arndt, N.
 When hot thermochemical instabilities trigger subduction
 and continental growth : the episodic Earth history.

17:00 COFFEE BREAK

Chairperson: N.N.

17:30–17:45; EGU2007-A-02146; GD01-1WE5O-001
Rollinson, H
 Can we recognise early Archaean mantle in the rock record
 ?

17:45–18:00; EGU2007-A-05866; GD01-1WE5O-002
Muehlenbachs, K.; Furnes, H.; de Wit, M.
 Oxygen isotope composition of the Archean seafloor and its
 implication of early seafloor spreading

18:00–18:15; EGU2007-A-07872; GD01-1WE5O-003
van Hunen, J.; van Thienen, P.
 The evolution of plate tectonics

18:15–18:30; EGU2007-A-06872; GD01-1WE5O-004
Halla, J.; Heilimo, E.
 Archean sanukitoid series granitoids and their implications
 for the plate tectonic theory

18:30–18:45; EGU2007-A-02153; GD01-1WE5O-005
Slabunov, A.I.
 Archean collisional orogen: the main stages and duration
 of the Archean lithospheric evolution of the Belomorian
 province (Fennoscandian Shield)

18:45–19:00; EGU2007-A-08462; GD01-1WE5O-006
Halls, H.C.; Davis, D.W.; Stott, G.M.; Ernst, R.E.
 The Paleoproterozoic Marathon Large Igneous Province:
 new evidence for a 2.1 Ga long-lived mantle plume event
 along the southern margin of the North American Superior
 craton

19:00 END OF SESSION

GD04 Geophysical and Geochemical Views of the Lithosphere - Asthenosphere Interaction (co-sponsored by International Lithosphere Programme Task Force III, co-listed in SM & GMPV)

Convener: Tommasi, A.
 Co-Convener(s): Garrido, C.
 Lecture Room 23
 Chairperson: TOMMASI, A.

8:30–8:45; EGU2007-A-07618; GD04-1WE1O-001
Beuchert, M.; Podladchikov, Y.; Ruepke, L.; Simon, N.
 Influence of rheology on craton stability – implications from
 numerical modeling

8:45–9:00; EGU2007-A-03570; GD04-1WE1O-002
Lorinczi, P.; Houseman, G.A.
 Lithospheric gravitational instability beneath the Southeast
 Carpathians

9:00–9:15; EGU2007-A-02321; GD04-1WE1O-003
Falus, Gy.; Tommasi, A.; Ingrin, J.; Szabó, Cs.
 The shallow forearc mantle above the Southeastern
 Carpathian subduction

9:15–9:30; EGU2007-A-02464; GD04-1WE1O-004
Song, TRA.; Helmberger, D.
 P and S waveform modeling of continental sub-lithospheric
 detachment at the eastern edge of the Rio Grande Rift

9:30–9:45; EGU2007-A-03551; GD04-1WE1O-005
van Wijk, J.W.; van Hunen, J.
 Mantle Flow beneath continental Rift Zones

9:45–10:00; EGU2007-A-07569; GD04-1WE1O-006
Rampone, E.; Borghini, G.
 Melt migration and melt/rock interaction in the lithospheric
 mantle at slow spreading extensional settings: insights from
 the Erro-Tobbio peridotites (Ligurian Alps, Italy)

10:00–10:15; EGU2007-A-01145; GD04-1WE1O-007
Bodinier, J.-L.
 Rejuvenation of lithospheric mantle by thermal erosion and
 refertilization: case studies in Ronda and Lherz orogenic
 peridotites (solicited)

10:15 END OF SESSION

GD04 Geophysical and Geochemical Views of the Lithosphere - Asthenosphere Interaction (co-sponsored by International Lithosphere Programme Task Force III, co-listed in SM & GMPV) – Posters

Convener: Tommasi, A.
 Co-Convener(s): Garrido, C.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 13:30–15:00
 Poster Area Hall A
 Chairperson: TOMMASI, A.

A0069; EGU2007-A-01160; GD04-1WE3P-0069
Tommasi, A.; Vauchez, A.; Godard, M.; Belley, F.
 Deformation and melt transport in a highly depleted peri-
 dotite massif from the Canadian Cordillera: Implications to
 seismic anisotropy above subduction zones

A0070; EGU2007-A-01163; GD04-1WE3P-0070
Thoraval, C.; Doin, M.P.; Tommasi, A.
 3D models of plume-lithosphere interactions

A0071; EGU2007-A-01177; GD04-1WE3P-0071
Garrido, C.J.; Bodinier, J. L.; Chanefo, I.; Bruguier, O.
 Mantle Refertilization during Lithosphere-Asthenosphere
 Interaction: Evidence from the Layered pyroxenite-
 peridotite in the Ronda massif

A0072; EGU2007-A-06740; GD04-1WE3P-0072
Morel, M.; Pearson, DG; Luguet, A.; Davies, GR
 Evolution of the central Kaapvaal cratonic lithospheric
 mantle: A platinum group element and Re-Os isotope study
 of peridotites from the Premier Mine, S. Africa

A0073; EGU2007-A-10296; GD04-1WE3P-0073
Martins, S.; Mata, J.; Munhá, J.; Mattielli, N.
 Elemental and isotopic constraints on the nature of mantle
 metasomatism at Santiago Island (Cape Verde)

A0074; EGU2007-A-08427; GD04-1WE3P-0074
Prelevic, D.; Foley, S.F.; Stracke, A.; Romer, R. L.; Conti-
 celli, S.; Guarnieri, L.
 Tertiary Mediterranean lamproites: towards a comprehensive
 model

A0075; EGU2007-A-05765; GD04-1WE3P-0075

Mocanu, V.I.

Lithosphere - asthenosphere system beneath The Carpathian Bending Zone by seismic attenuation and satellite geodesy

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 15:30–17:00

Poster Area Hall A

Chairperson: TOMMASI, A.

A0076; EGU2007-A-08577; GD04-1WE4P-0076

Afonso, J. C.; Ranalli, G.; Fernandez, M.

Density structure and buoyancy of the oceanic lithosphere from integrated geophysical-petrological modelling

A0077; EGU2007-A-10499; GD04-1WE4P-0077

Abratis, M.; **Viereck-Goette, L.**

Rifting of buckled European lithosphere in combination with lithosphere-penetrating lineaments determine the composition of mafic igneous rocks in the northern CECIP

A0078; EGU2007-A-02821; GD04-1WE4P-0078

Nielsen, L.; Gregersen, S.; Voss, P.

Evaluation of various inversions of P-wave teleseismic tomography in Scandinavia

A0079; EGU2007-A-05861; GD04-1WE4P-0079

Sinadinovski, C.; Abdulah, A.; Kennett, B.L.N

Western Australia seismic wave speeds tomography

A0080; EGU2007-A-08839; GD04-1WE4P-0080

Milke, R.; Abart, R.; Rhede, D.; Wirth, R.

Challenging the distribution coefficient: Kinetic fractionation during mineral replacement reactions

A0081; EGU2007-A-03557; GD04-1WE4P-0081

Timoshkina, E.; Mikhailov, V.

Superficial manifestation of the asthenosphere – lithosphere interaction in different plate tectonic environments

GD07 Dynamics and Thermal Structure of Subduction Zones

Convener: Fernandez, M.

Co-Convener(s): Govers, R.

Lecture Room 23

Chairperson: N.N.

13:30–13:45; EGU2007-A-01752; GD07-1WE3O-001

Dewille, E.; Mascle, A.

Tectonic segmentation within the Barbados accretionary prism:

13:45–14:00; EGU2007-A-11498; GD07-1WE3O-002

Ranero, C.R.

Tectonics at the edge of the Andes: The Chile Convergent Margin (solicited)

14:00–14:15; EGU2007-A-06193; GD07-1WE3O-003

Lallemand, S.; Heuret, A.; Faccenna, C.; Fuciniello, F.

Subduction dynamics as revealed by trench migration (solicited)

14:15–14:30; EGU2007-A-03995; GD07-1WE3O-004

Kneller, E.; **van Keken, P.**

The effects of 3D slab geometry on deformation in the mantle wedge

14:30–14:45; EGU2007-A-11500; GD07-1WE3O-005

de Franco, R.; **Govers, R.;** Wortel, R.

The impact of having a subduction channel or a subduction fault (solicited)

14:45–15:00; EGU2007-A-00650; GD07-1WE3O-006

Schellart, W.P.; Griffiths, R.W.

Three-dimensional subduction-induced flow patterns in the mantle: Insight from fluid dynamic modelling

15:00 END OF SESSION

GD09 Ice-Mass Fluctuations and the Dynamical Responses of the Solid Earth (co-organized by G)

Convener: Poutanen, M.

Co-Convener(s): Gregersen, S.

Lecture Room 23

Chairperson: N.N.

10:30–10:45; EGU2007-A-05676; GD09-1WE2O-001

Peltier, W.R.

Rotational Feedback in Global Glacial Isostatic Adjustment (solicited)

10:45–11:00; EGU2007-A-10205; GD09-1WE2O-002

Scherneck, H.-G.; Haas, R.; Johansson, J.M.; Lidberg, M.; Milne, G.A.; Whitehouse, P.

The contemporary strain rate field of Fennoscandia derived from BIFROST GPS.

11:00–11:15; EGU2007-A-10017; GD09-1WE2O-003

Poutanen, M.; Gregersen, S.; Kukkonen, I.T.; Scherneck, H.-G.

Initiation of a project in the International Lithosphere Program (ILP): Upper mantle dynamics and quaternary climate in cratonic areas

11:15 END OF SESSION

GD18/G2 Ice-Mass Fluctuations and the Dynamical Responses of the Solid Earth (co-organized by G)

Convener: Vermeersen, B.

Co-Convener(s): Kaufmann, G.

Lecture Room 23

Chairperson: N.N.

11:15–11:30; EGU2007-A-10377; GD18/G2-1WE2O-004

Bradley, S L.; Teferle, N.; Milne, G A.; Bingley, R.

Modelling the glacial isostatic adjustment of the British Isles using continuous GPS measurements of 3-D crustal motion.

11:30–11:45; EGU2007-A-05900; GD18/G2-1WE2O-005

Estermann, G.; Lambeck, K.

Geodetic signals from numerical modelling of recent mountain deglaciation

11:45–12:00; EGU2007-A-04209; GD18/G2-1WE2O-006

Schotman, H.; Vermeersen, B.; Wu, P.; Koop, R.

Viscosity structure of the shallow Earth from GOCE

12:00 END OF SESSION

Geomorphology

GM2 Aeolian Processes and Landforms (co-listed in CL)

Convener: Baas, A.

Co-Convener(s): Claudin, P., Wiggs, G.

Lecture Room 17 (M)

Chairperson: BAAS, A.

15:30–15:45; EGU2007-A-04604; GM2-1WE4O-001
Lorenz, R.; Radebaugh, J.; Paillou, Ph.; The Cassini
 RADAR Team
 Radar Imaging of Sand Dunes on Titan and Earth

15:45–16:00; EGU2007-A-07360; GM2-1WE4O-002
Engelstaedter, S.; Washington, R.
 Controls on the temporal variability of global dust emissions:
 the role of surface gustiness

16:00–16:15; EGU2007-A-09807; GM2-1WE4O-003
Valance, A.; Dupont, P.; Ould El Moctar, A.; Creyssels, M.
 Experimental analysis of a turbulent boundary layer satu-
 rated with saltating sand grains

16:15–16:30; EGU2007-A-00534; GM2-1WE4O-004
Eastwood, E.N.; Baas, A.C.W; Nield, J.M.
 Source-to-sink sediment transport in a cellular automaton
 simulation of aeolian dune field evolution

16:30–16:45; EGU2007-A-00613; GM2-1WE4O-005
Ewing, R.C.; Kocurek, G
 The influence of boundary conditions on the order of aeolian
 dune-field patterns

16:45–17:00; EGU2007-A-03335; GM2-1WE4O-006
Duran, O.; Schwaemmle, V; Lind, P; Herrmann, H
 How Barchan Dunes distribute over Deserts

17:00 END OF SESSION

GM2 Aeolian Processes and Landforms (co-listed in CL) – Posters

Convener: Baas, A.
 Co-Convener(s): Claudin, P., Wiggs, G.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: CLAUDIN, P.

XY0363; EGU2007-A-09838; GM2-1WE5P-0363
Wiggs, G
 Geomorphic thresholds: aeolian dune activity under a
 changing vegetation cover in the Southwest Kalahari

XY0364; EGU2007-A-09234; GM2-1WE5P-0364
Fister, W.; Ries, J.B.; Roche, M.-A.
 Effects of soil surface treatments on wind erosion rates

XY0365; EGU2007-A-09868; GM2-1WE5P-0365
Weaver, C.; Wiggs, G
 The impact of turbulent flow on aeolian dune dynamics

XY0366; EGU2007-A-03586; GM2-1WE5P-0366
Baas, A.C.W
 Patterns and Scales in Aeolian Sand Transport: Streamers
 and Turbulence

XY0367; EGU2007-A-07898; GM2-1WE5P-0367
Karimi karouyeh, A.; Khademi, H.; Jalalian, A.
 Identification of loess deposits in northeast Iran using
 particle size distribution analysis

XY0368; EGU2007-A-06532; GM2-1WE5P-0368
Niedzielski, T.; Kowalczyk, K.; Czystolowski, M.
 A data-based statistical technique to process the time
 series on aeolian sand ripples obtained by the shadow cast
 technique

XY0369; EGU2007-A-03880; GM2-1WE5P-0369
 Andreotti, B.; **Claudin, P.;** Pouliquen, O.
 Aeolian sand ripples: experimental study of fully developed
 states

XY0370; EGU2007-A-03592; GM2-1WE5P-0370
Baas, A.C.W.; Kocurek, G.; Mohrig, D.
 Scaling of Aeolian and Subaqueous Bedform Dynamics

XY0371; EGU2007-A-05762; GM2-1WE5P-0371
Narteau, C.; Rozier, O.
 Numerical simulations of barchan dunes under rotating flow

XY0372; EGU2007-A-03468; GM2-1WE5P-0372
 Nield, J.M.; **Baas, A.C.W**
 Cellular Automaton Simulation of Vegetated Dune Fields

XY0373; EGU2007-A-10333; GM2-1WE5P-0373
Ewing, R.C.; Eastwood, E.N.
 Using cellular automaton model simulations and pattern
 analysis to investigate the role of boundary conditions in
 dune-field pattern development

XY0374; EGU2007-A-08508; GM2-1WE5P-0374
 Littlewood, R.; Andreotti, B.; **Claudin, P.;** Murray, A.B.
 A discrete numerical model for barchan dune fields

XY0375; EGU2007-A-03895; GM2-1WE5P-0375
 Elbelrhiti, H.; Andreotti, B.; **Claudin, P.**
 Barchan dune corridors: field characterization and investiga-
 tion of control parameters

XY0376; EGU2007-A-11474; GM2-1WE5P-0376
Kroy, K.; Cates, M.E.; Fischer, S.; Rings, D.; Schön-
 feldt, H.-J.
 Dynamic Scaling of Desert Dunes

GM3 Seafloor Expression of Tectonic & Geomorphic Processes (co-listed n OS, SSP & TS)

Convener: Hillier, J.
 Co-Convener(s): Mitchell, N.
 Lecture Room 17 (M)
 Chairperson: HILLIER, J

8:30–8:45; EGU2007-A-01930; GM3-1WE1O-001
Wu, W.; Liu, L
 Distribution and information of submarine landslides off-
 shore southern Taiwan

8:45–9:00; EGU2007-A-10868; GM3-1WE1O-002
Gupta, S.; Collier, J.S.; Palmer-Felgate, A.; Potter, G.
 Catastrophic flooding origin of shelf valley systems in the
 English Channel (solicited)

9:00–9:15; EGU2007-A-02793; GM3-1WE1O-003
Elliott, G.M.; Parson, L.M.
 The influence of sediment drift accumulation upon the
 passage of gravity driven flows within the Iceland Basin

9:15–9:30; EGU2007-A-09919; GM3-1WE1O-004
Ridente, D.; Foglini, F.; Minisini, D.; Trincardi, F.; Verdic-
 chio, G.
 Morphology of the SW Adriatic margin: tectonic deforma-
 tion, slope-failure blurring and bottom-current brushing

9:30–9:45; EGU2007-A-09524; GM3-1WE1O-005
Garcia, X.; Monteys, X.; Evans, R.; Kelleher, B.
 Geohazard identification and early reconnaissance for
 hydrocarbon potential using marine electromagnetic and
 high frequency acoustic methods

9:45–10:00; EGU2007-A-03501; GM3-1WE1O-006
Evans, R. J.; Stewart, S. A; Davies, R. J
 The structure, origin and bathymetric expression of mud
 volcano craters: examples from the South Caspian Sea and
 eastern Azerbaijan

10:00 END OF SESSION

GM3 Seafloor Expression of Tectonic & Geomorphic Processes (co-listed in OS, SSP & TS) – Posters

Convener: Hillier, J.

Co-Convener(s): Mitchell, N.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0377; EGU2007-A-01613; GM3-1WE5P-0377

Ocakoglu, N; Bohm, G

Multi-channel seismic reflection study in the Eastern Basin (Ross Sea), Antarctica

XY0378; EGU2007-A-09668; GM3-1WE5P-0378

Geletti, R.; Del Ben, A.; Busetti, M.; Volpi, V.

Linkage Between Gas Leakage and Deep Tectonic Features in the Jabuka Trough (Central Adriatic Sea).

XY0379; EGU2007-A-10495; GM3-1WE5P-0379

Angelova, D.

Catastrophic events in terrains along the northern Bulgarian Black Sea coast

XY0380; EGU2007-A-10761; GM3-1WE5P-0380

Flood, R.D.; Cerrato, R.

Benthic Habitat Mapping in New York Coastal and Estuarine Waters

XY0381; EGU2007-A-02337; GM3-1WE5P-0381

Mitchell, N.C.

Geomorphology of continental slope canyons

XY0382; EGU2007-A-02330; GM3-1WE5P-0382

Mitchell, N.C.; Huthnance, J.M.

Oceanographic currents and the convexity of the uppermost continental slope

XY0383; EGU2007-A-11514; GM3-1WE5P-0383

Jacobs, C.L.; Howell, K.L.

Giant scours around George Bligh Bank and the northern Rockall Bank margin

XY0384; EGU2007-A-11134; GM3-1WE5P-0384

Wilson, C; Stoker, M; Cotterill, C; Bradwell, T

Marine mapping in a drowned glacial environment.

XY0385; EGU2007-A-09108; GM3-1WE5P-0385

Krastel, S.; Antobreh, A.A.; Geersen, J.; Wynn, R.B.; Hanebuth, T.J.J.; Trampe, A.; Felzenberg, J.; Koelling, M.

The interplay between large scale mass wasting and channelized sediment transport: examples from the NW-African Continental Margin

XY0386; EGU2007-A-03560; GM3-1WE5P-0386

Neagu, R.C.; **Rebesco, M.;** Cuppari, A.

Submarine mass movements in the Western Gulf of Taranto, Ionian Sea

XY0387; EGU2007-A-03013; GM3-1WE5P-0387

Elliott, G.M.; Shannon, P.M.; Haughton, P.D.W.; Praeg, D; O'Reilly, B

Mid to Late Cenozoic evolution of a sediment starved slope system: the Rockall Trough, west of Ireland

XY0388; EGU2007-A-01055; GM3-1WE5P-0388

Dmitrievsky, A.N.; **Balanyuk, I.E.;** Akivis, T.M.; Chaikina, O.N.

Influence of Aleutian fracture Zone on the Ocean Floor

XY0389; EGU2007-A-01368; GM3-1WE5P-0389

Körtvélyessy, LK

origin of ocean

GM4 Coastal geomorphology

Convener: Baas, A.

Lecture Room 17 (M)

Chairperson: BAAS, A.

10:30–10:45; EGU2007-A-09603; GM4-1WE2O-001

D'Alpaos, A.; Lanzoni, S.; Marani, M.; Rinaldo, A.

Landscape evolution in tidal embayments: modelling the interplay of erosion, sedimentation, and vegetation dynamics

10:45–11:00; EGU2007-A-02556; GM4-1WE2O-002

Tassi, P.; Bokhove, O.; Vionnet, C.

A discontinuous Galerkin finite element approximation for sediment transport and bed evolution

11:00–11:15; EGU2007-A-04075; GM4-1WE2O-003

de Swart, H.E.; Vis-Star, N.C.; Calvete, D.

Shoreface-connected sand ridges: modelling the effects of waves and 3D processes on their formation and sorting characteristics

11:15–11:30; EGU2007-A-00495; GM4-1WE2O-004

Stancheva, M.; Stanchev, H.; Palazov, A.

A GIS approach for investigation of beach dynamics - Asparuhovo beach case study, Bulgarian Black Sea coast

11:30–11:45; EGU2007-A-04532; GM4-1WE2O-005

Lin, T.-Y.

The geomorphologic changes of two barrier islands in southwestern Taiwan

11:45–12:00; EGU2007-A-11334; GM4-1WE2O-006

Caputo, R.; D'Onofrio, R.; Bianca, M.

The Late Quaternary Uplift of the Ionian Coast, Southern Italy, based on Coastal Geomorphology Analysis

12:00 END OF SESSION

GM4 Coastal geomorphology – Posters

Convener: Baas, A.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: BAAS, A.

XY0390; EGU2007-A-03462; GM4-1WE5P-0390

Seifert, A.; Stegmann, S.; Kopf, A.

Pore pressure measurements with in-situ FF-CPT in the western Baltic Sea

XY0391; EGU2007-A-05860; GM4-1WE5P-0391

Testik, F.Y.; Voropayev, S.I.; Fernando, H.J.S; Balasubramanian, S.

Migration of sand ripples under shoaling waves

XY0392; EGU2007-A-09191; GM4-1WE5P-0392

Raynal, O.; **Graveleau, F.;** Seranne, M.; Dominguez, S.; Bouchette, F.; Hurtrez, J.E.

Analogue modelling of erosion-transport-deposition processes (coastal catchments to shoreface) in response to high-frequency sea-level and precipitation changes

XY0393; EGU2007-A-02041; GM4-1WE5P-0393

Cucco, A.; Simeone, S.; De Falco, G.; Como, S.; Magni, P.; Perilli, A.

Sediment distribution and hydrodynamic patterns in the Cabras Lagoon, Italy

XY0394; EGU2007-A-06386; GM4-1WE5P-0394

Beigelbeck, R.; Paschke, F.; Preisinger, A.; Aslanian, S.

The influence of the sea bottom on water wave patterns in satellite photographs

XY0395; EGU2007-A-06998; GM4-1WE5P-0395

Rosser, N.J.; Pybus, D.T.

The geomorphological impact of coastal mineral extraction on cliff form and process

XY0396; EGU2007-A-07008; GM4-1WE5P-0396

Rosser, N.J.; Lim, M.; Dunning, S.A.; Petley, D.N.

Environmental controls on coastal cliff change

XY0397; EGU2007-A-00503; GM4-1WE5P-0397

Agarkova-Lyakh, I.

Specificity of coastal zone landscapes (on the example of Crimean coastal zone)

XY0398; EGU2007-A-00287; GM4-1WE5P-0398

Toker, M.; Ediger, V.; Evans, G.

Physiographic, Morpho-tectonic provinces and Sedimentary patterns of the Cilicia-Adana Basin, the NE-Mediterranean

GM18 The Role of Vegetation in Geomorphological Connectivity and Land Degradation

Convener: Hooke, J.

Co-Convener(s): Cammeraat, E., Castillo, V.

Lecture Room 7

Chairperson: CAMMERAAT, E.

8:30–8:45; EGU2007-A-07355; GM18-1WE1O-001

Lane, S.N.; Reid, S.C.

The potential of localized woodland planting to address coarse sediment delivery problems in gravel-bed rivers

8:45–9:00; EGU2007-A-02339; GM18-1WE1O-002

Hooke, J. M.; Sandercock, P. J.

Effects of vegetation on connectivity and use in sustainable management of desertified areas: the RECONDES project

9:00–9:15; EGU2007-A-00854; GM18-1WE1O-003

Lesschen, J.P.; Cammeraat, L.H.

Hydrological connectivity as a concept for upscaling runoff and erosion in semi-arid areas

9:15–9:30; EGU2007-A-02808; GM18-1WE1O-004

Meerkerk, A.L.; van Wesemael, B.; Cammeraat, E.

Can cover crops reduce the hydrological connectivity in rainfed orchards with limited water availability?

9:30–9:45; EGU2007-A-03761; GM18-1WE1O-005

Boix-Fayos, C.; de Vente, J.; Barberá, G.G.; Castillo, V.

The impact of land use changes and hydrological control works on hydrological connectivity and sediment yield at the catchment scale

9:45–10:00; EGU2007-A-02403; GM18-1WE1O-006

Stewart, J.; Okin, G S; Parsons, A J; Wainwright, J;

Bestelmeyer, B; Fredrickson, E; Schlesinger, W

Modelling Emergent Patterns of Dynamic Desert Ecosystems

10:00 COFFEE BREAK

Chairperson: HOOKE, J.

10:30–10:45; EGU2007-A-01710; GM18-1WE2O-001

De Baets, S.; Poesen, J.; Knapen, A.; Barberá, G.G.;

Navarro, J.A.

Evaluation of Mediterranean plants for controlling gully erosion

10:45–11:00; EGU2007-A-02269; GM18-1WE2O-002

Marchamalo Sacristan, M.; Hooke, J.M.; Sandercock, P.J.

Event based connectivity assessment at subcatchment scale under different land use scenarios.

11:00–11:15; EGU2007-A-03654; GM18-1WE2O-003

Cammeraat, E.; Lesschen, J.P.

Thresholds, Scale and Connectivity in semi-arid Catchments: Implications for eco-engineering Strategies

11:15–11:30; EGU2007-A-02347; GM18-1WE2O-004

Sandercock, P.J.; Hooke, J.M.

Influence of vegetation in reducing sediment connectivity along ephemeral channels in SE Spain

11:30–11:45; EGU2007-A-02962; GM18-1WE2O-005

Yair, A.

The effect of soil and vegetation cover on the degree of connectivity at the hillslope and channels in arid and semi-arid areas

11:45–12:00; EGU2007-A-09923; GM18-1WE2O-006

Barberá, G.G.; Castillo, V.; Boix-Fayos, C.; de Vente, J.

May landscape structure and connectivity changes to commit water supply in Mediterranean countries?

12:00 END OF SESSION

GM18 The Role of Vegetation in Geomorphological Connectivity and Land Degradation – Posters

Convener: Hooke, J.

Co-Convener(s): Cammeraat, E., Castillo, V.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: CASTILLO, V.

XY0399; EGU2007-A-01485; GM18-1WE5P-0399

m. Tosi, m. T.

Pioneer shrub reinforcement on clayey hillslopes. A case history from the Northern Apennines (Italy).

XY0400; EGU2007-A-01676; GM18-1WE5P-0400

Mashhadi, N.; Amiraslani, F

The investigation of vegetation of Marl areas for biological controlling of water erosion in arid lands (Case study: Semnan Province, Iran)

XY0401; EGU2007-A-09876; GM18-1WE5P-0401

Hooke, J.M.; THE RECONDES TEAM

RECONDES: Conditions for restoration and mitigation of desertified areas using vegetation

XY0402; EGU2007-A-09819; GM18-1WE5P-0402

Cammeraat, E.; Lesschen, J.P.

Soil Crusting and patch scale Connectivity on semi-natural and abandoned Lands

XY0403; EGU2007-A-05497; GM18-1WE5P-0403

De Baets, S.; Poesen, J.; Knapen, A.; Barberá, G.G.;

Navarro, J.A.

Root characteristics of representative Mediterranean plant species and their erosion-reducing potential during concentrated runoff

XY0404; EGU2007-A-05508; GM18-1WE5P-0404

Meerkerk, A.L.; van Wesemael, B.; Barberá, G.G.

Preventing runoff generation from rainfed orchards in semi-arid environments

XY0405; EGU2007-A-02359; GM18-1WE5P-0405

Sandercock, P.J.; Hooke, J.M.

Conditions for use of vegetation for stabilisation of ephemeral channels in SE Spain

XY0406; EGU2007-A-03360; GM18-1WE5P-0406

Castillo, V.; Boix-Fayos, C.; Navarro-Cano, J.A.; Barberá, G.G.

Changes in hydrological connectivity induced by terracing in a small reforested catchment.

XY0407; EGU2007-A-05056; GM18-1WE5P-0407
Molina, A.; Govers, G.; Vanacker, V.; Poesen, J.; Zeelmaekers, E.; Cisneros, F.
 Role of land use/-cover in controlling runoff generation on mountain slopes

XY0408; EGU2007-A-05811; GM18-1WE5P-0408
Nanko, K.; Onda, Y; Ito, A; Moriwaki, H
 Influence of canopy structures on generating throughfall erosivity: an experimental approach

XY0409; EGU2007-A-11528; GM18-1WE5P-0409
 Malkinson, D; Wittenberg, L
 Disturbance and Ecosystem Response

GM26 Planetary Geomorphology (co-listed in PS)

Convener: Balme, M.
 Co-Convener(s): Gupta, S., van Gasselt, S.
 Lecture Room 17 (M)
 Chairperson: GUPTA, S AND VAN-GASSETT, S

13:30–13:45; EGU2007-A-09657; GM26-1WE3O-001
Mangold, N.; Ansan, V.; Masson, Ph.; Quantin, C.; Neukum and the HRSC team, G.
 Analysis of West Echus Chasma valleys, Mars, from HRSC/MEX images and DTM (solicited)

13:45–14:00; EGU2007-A-05783; GM26-1WE3O-002
BOURKE, M.C.; Edgett, K.S.; Cantor, B.A.
 Disappearing and shrinking dunes on Mars (solicited)

14:00–14:15; EGU2007-A-10349; GM26-1WE3O-003
Lefort, A.; Russell, P.; Thomas, N.; The HiRISE Team
 HiRISE observations of possible periglacial features in the martian mid-latitude mantle.

14:15–14:30; EGU2007-A-09213; GM26-1WE3O-004
Murray, J.B.; Balme, M.R.; Muller, J-P.A; Kim, J-R.
 New evidence for equatorial sea ice on Mars from HiRISE images

14:30–14:45; EGU2007-A-04702; GM26-1WE3O-005
Radebaugh, J.; Lorenz, R.; Lunine, J.; The Cassini RADAR Team
 Longitudinal dunes on Titan: Distributions and indicators of winds

14:45–15:00; EGU2007-A-09505; GM26-1WE3O-006
Wagner, R. J.; Neukum, G.; Giese, B.; Roatsch, T.; Wolf, U.
 Geomorphology of Saturn's satellite Rhea: preliminary implications from the Cassini ISS data

15:00 END OF SESSION

GM26 Planetary Geomorphology (co-listed in PS) – Posters

Convener: Balme, M.
 Co-Convener(s): Gupta, S., van Gasselt, S.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: GUPTA, S AND VAN-GASSETT, S

XY0410; EGU2007-A-07201; GM26-1WE5P-0410
Sowe, M.; Hauber, E.; Jaumann, R.; Gwinner, K.; Fueten, F.; Stesky, R.; Neukum, G.
 Interior Layered Deposits of the eastern Valles Marineris on Mars

XY0411; EGU2007-A-07222; GM26-1WE5P-0411
Tirsch, D.; Jaumann, R.; Reiss, D.; Helbert, J.; Forget, F.; Millour, E.; Poulet, F.; Greeley, R.; Neukum, G.
 Dark dunes in Martian craters

XY0412; EGU2007-A-11504; GM26-1WE5P-0412
 Balme, M; Bermann, D; Bourke, M
 Transverse Aeolian Ridges (TARs) on Mars

XY0413; EGU2007-A-09801; GM26-1WE5P-0413
van Gasselt, S.; Hauber, E.; Neukum, G.
 Origin, Creep and Degradation of Ice-Rich Debris at Deuteronilus Mensae, Mars

XY0414; EGU2007-A-09822; GM26-1WE5P-0414
 Hauber, E.; **van Gasselt, S.;** Chapman, M. G.; Neukum, G.
 Geomorphic Evidence for former Lobate Debris Aprons at Low Latitudes on Mars: Indicators of the Martian Paleoclimate

XY0415; EGU2007-A-09160; GM26-1WE5P-0415
Lanz, J.; Saric, B.; Tran-Viet, T.
 New high resolution morphologic map of SW Elysium Planitia

XY0416; EGU2007-A-10844; GM26-1WE5P-0416
Schreiner, B.; Neukum, G.
 Structural analysis and comparison of chaotic terrains in Margaritifer Terra: Implications for formation processes

XY0417; EGU2007-A-10920; GM26-1WE5P-0417
Gupta, S.; Muller, J.-P.; Kim, J.-R.; van Gasselt, S.; Neukum, G.
 Evidence for multiple episodes of catastrophic flooding in Ares Vallis from the Mars Express High Resolution Stereo Camera

XY0418; EGU2007-A-09722; GM26-1WE5P-0418
Ansan, V.; Mangold, N.; Masson, Ph.; Neukum and HRSC team, G.
 Analysis of Noachian valley networks in Aeolis region, Mars, from HRSC/MEX images and DTM

XY0419; EGU2007-A-08342; GM26-1WE5P-0419
Baptista, A.; Mangold, N.; Ansan, V.; Dupeyrat, L.; Costard, F.; Masson, P.; Lognonné, P.; Neukum, G.
 A Swarm of Small Shield Volcanoes on Syria Planum, Mars, analysed using Mars Express - HRSC data

XY0420; EGU2007-A-09882; GM26-1WE5P-0420
Dumke, A.; Spiegel, M.; Schmidt, R.; Neukum, G.
 Olympus Mons: High-resolution digital terrain model and ortho-image mosaic

XY0421; EGU2007-A-09759; GM26-1WE5P-0421
Byrne, P.K.; Murray, J.B.; van Wyk de Vries, B.; Troll, V.R.
 Flank terrace morphology of Martian shield volcanoes

XY0422; EGU2007-A-05416; GM26-1WE5P-0422
Tsukamoto, S.; Duller, G.A.T; Jain, M.; Morthekai, P.; Bøtter-Jensen, L.; Murray, A.S.; Tani, A.; Mizuno, J.
 The potential for luminescence dating of Martian sediments – preliminary results from terrestrial basaltic samples as Martian analogues

XY0423; EGU2007-A-10402; GM26-1WE5P-0423
Nna-Mvondo, D.; Martinez-Frias, J.
 Near- and mid-infrared reflectance spectroscopy of komatiites

Geosciences Instrumentation and Data Systems

GI2 Atmosphere, Ocean and Meteorological Instruments (co-listed in AS, CL, OS, PS & ST) – Posters

Convener: Vivekanandan, J.

Co-Convener(s): Parsons, D., Rose, M.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0424; EGU2007-A-11645; GI2-1WE5P-0424

Szakáll, M.; Bozóki, Z.; Mohácsi, Á.; Szabó, G.; Zahn, A.
UT/LS Water Vapor Measurements Using a Photoacoustic Detector

XY0425; EGU2007-A-02406; GI2-1WE5P-0425

Drüe, C.; Frey, W.; Hauf, T.; Hoff, A.

Analysis of aircraft-type specific errors in AMDAR weather reports from commercial aircraft

XY0426; EGU2007-A-10983; GI2-1WE5P-0426

Sauvage, L.; Stachlewska, I.; Lardier, M.; Chazette, P.; Sanak, J.

New eye safe compact EZ LIDAR for pollution and meteorological monitoring.

XY0427; EGU2007-A-00815; GI2-1WE5P-0427

Sihler, H.; Kern, C.; Platt, U.

High Power LEDs as an advantageous alternative to Xenon arc lamps for Long Path DOAS instruments.

XY0428; EGU2007-A-03245; GI2-1WE5P-0428

Thejll, P.; Gleisner, H.; Andersen, T.; Petersen, M-O; Ardeberg, A.; Mattingly, A.; Pedersen, L
Earthshine observations - terrestrial Albedo

XY0429; EGU2007-A-09635; GI2-1WE5P-0429

Pinardi, G.; Van Roozendaal, M.; Fayt, C.; Hermans, C.; Merlaud, A.; De Mazière, M.; Brinksma, E.; Celarier, E.
OMI NO₂ validation by ground-based Multi Axis DOAS and Direct Sun observations during the DANDELIONS campaigns

XY0430; EGU2007-A-10058; GI2-1WE5P-0430

Schween, J.H.

A method to overcome the problem of slow sensors

XY0431; EGU2007-A-10543; GI2-1WE5P-0431

Graus, M.; Müller, M.; Wisthaler, A.; Hansel, A.
High resolution PTR-TOFMS: performance assessment and applicability in atmospheric sciences

XY0432; EGU2007-A-11646; GI2-1WE5P-0432

Ajtai, T.; Filep, Á.; Veres, A.H.; Motika, G.; Bozóki, Z.; Szabó, G.

Novel Multi-Purpose Sensor for Atmospheric Monitoring Using Nd:YAG Laser Based Multi-wavelength Photoacoustic System

XY0433; EGU2007-A-10113; GI2-1WE5P-0433

Merten, AM; Tschritter, TS; Platt, PL

New design of Long-Path-Telescopes for atmospheric trace gas measurements based one fibre optic

XY0434; EGU2007-A-00454; GI2-1WE5P-0434

Bechara, J.; Borbon, A.; Jambert, C.; Perros, P

A new off-line instrumentation for airborne measurements of Volatile Organic Compounds

XY0435; EGU2007-A-07840; GI2-1WE5P-0435

Popa, E.; Gloor, E.; Jordan, A.; Schultz, U.; Haensel, F.; Seifert, T.; Heimann, M.

Monitoring atmospheric greenhouse gases – results from a continental tall tower measurement station at Bialystok, Poland

XY0436; EGU2007-A-09330; GI2-1WE5P-0436

Suttiwong, N.; Mair, U.; Birk, M.; Wagner, G.; Cherednichenko, S.

TErahertz and submm Limb Sounder (TELIS),“Development and characterization a cryogenic THz heterodyne receiver for TELIS”

XY0437; EGU2007-A-09410; GI2-1WE5P-0437

Sellitto, P.; Burini, A.; Del Frate, F.; Casadio, S.

Neural networks algorithms for ozone profiles retrieval from satellite measurements: analysis with Esa-Envisat Sciamachy and Nasa-Aura Omi data

XY0438; EGU2007-A-10416; GI2-1WE5P-0438

Feist, D. G.; Geibel, M.; Gerbig, C.; Heimann, M.

Ground based FTIR system for high-accuracy measurements of atmospheric CO₂ and CH₄ columns

GI3 Instrumentation for Ocean Observatories and Early Warning Systems (co-listed in OS, NH & SM) – Posters

Convener: Waldmann, C.

Co-Convener(s): Person, R., Favali, P.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: WALDMANN

XY0439; EGU2007-A-03240; GI3-1WE5P-0439

De Santis, A.; Di Mauro, D.; Cafarella, L.; Beranzoli, L.; Favali, P.; Vitale, S.

GEOSTAR deep seafloor magnetic observations in Tyrrhenian Sea

XY0440; EGU2007-A-09592; GI3-1WE5P-0440

Favali, P.; Ciafardini, A.; Montuori, C.; Beranzoli, L.; Frugoni, F.; Monna, S.; Sgroi, T.

Seismic recordings from a new seafloor multidisciplinary observatory, ORION-GEOSTAR 3 (Marsili Basin, Southern Tyrrhenian Sea)

XY0441; EGU2007-A-05529; GI3-1WE5P-0441

Baehr, J.; McInerney, D.; Keller, K.; Marotzke, J.

Global Optimization of an observing system design for the North Atlantic meridional overturning circulation

XY0442; EGU2007-A-07449; GI3-1WE5P-0442

Karstensen, J.; Send, U.; Pinck, A.; Busack, M.

A small and lightweight telemetry buoy module for open ocean moorings

XY0443; EGU2007-A-09679; GI3-1WE5P-0443

Lo Bue, N.; Calcara, M.; Etiope, G.; Favali, P.

Investigation of Benthic Boundary Layer processes through seafloor observatories

XY0444; EGU2007-A-02316; GI3-1WE5P-0444

Marvaldi, J.; Legrand, J.; Masset, J.F.; Nicot, M.; Barbot, D.; Degres, Y.; Jouannic, M.; Cabioch, F.; Billand, P.

ROSE project : development and demonstration of a “Mobile Response Observatory” prototype.

XY0445; EGU2007-A-01474; GI3-1WE5P-0445

Barrera, C.; Rueda, MJ; Elgue, JC; Llinas, O

The ACOMAR Canarias moored buoy network: A new contribution for CoastalGOOS

Mon

Tue

Wed

Thu

Fri

XY0446; EGU2007-A-03794; GI3-1WE5P-0446
Karpen, V.; Thomsen, L.; Viergutz, T.; Wagner, H.; de Beer, D.
 Baltic observatory for oceanographic monitoring (BOOM) -
 a versatile test bed based on deep-sea standards

GI4 Instrumentation related to polar regions and the IPY (co-listed in AS, BG, CR & OS) – Posters

Convener: Rose, M.
 Co-Convener(s): Meldrum, D.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0447; EGU2007-A-01552; GI4-1WE5P-0447
Behar, A.
 Recent Advances in Low-Power Real Time Comms Using
 New Iridium Data Capabilities

XY0448; EGU2007-A-01810; GI4-1WE5P-0448
Fox, J.; Geissler, P.; Worland, R.
 Versatile Iridium Campbell link

XY0449; EGU2007-A-10120; GI4-1WE5P-0449
Bonnet, Ph.; Chang, M.
 Towards autonomous in-situ data acquisition with wireless
 sensor networks

XY0450; EGU2007-A-10187; GI4-1WE5P-0450
Anderson, K.; Johns, B.; Beaudoin, B.; Fowler, J.; **Parker, T.**;
 White, S.
 Development of a Power and Communications System for
 Remote Autonomous Polar Observations

XY0451; EGU2007-A-10796; GI4-1WE5P-0451
Stehle, R.; Dahl, T.
 PolarPower.Org – Sharing knowledge about power systems
 for Polar Regions

XY0452; EGU2007-A-10510; GI4-1WE5P-0452
Østerhus, S.; Hansen, R.; Bjervamo, A.; **Frøysa, K.**;
 Instanes, A.
 Sustainable monitoring system for dense water production
 on polar shelves

XY0453; EGU2007-A-05048; GI4-1WE5P-0453
Walker, K.A.; Drummond, J.R.; The CANDAC Science
 Team
 The Polar Environment Atmospheric Research Laboratory
 at Eureka, Canada

XY0454; EGU2007-A-08866; GI4-1WE5P-0454
Hansen, G. H.; Lunder, C. R.; Schmidbauer, N.; Stebel, K.;
 Aas, W.; Kallenborn, R.; Holmen, K.; Tørseth, K.; Berg, T.
 Troll Station - A new year-round atmospheric monitoring
 and research station in Antarctica

XY0455; EGU2007-A-05884; GI4-1WE5P-0455
Harding, D.; Abshire, J.; Dabney, P.; **Scambos, T.**; Seas, A.;
 Shuman, C.; Sun, X.
 The Swath Imaging Multi-polarization Photon-counting
 Lidar (SIMPL): An innovative laser altimeter for mapping
 ice, water, land and forest cover

XY0456; EGU2007-A-04342; GI4-1WE5P-0456
Hibbins, R.E.; Jarvis, M.J.; Rose, M.C.; Maxfield, D.J.;
 Espy, P.J.
 A ship-borne radiometer for the analysis of gravity wave
 activity in the upper mesosphere

XY0457; EGU2007-A-09741; GI4-1WE5P-0457
Bortoli, D.; Ravegnani, F.; Giovanelli, G.; Petritoli, A.;
 Palazzi, E.; Kostadinov, I.
 New spectrometers for atmospheric trace gases measure-
 ments in two antarctic stations

XY0458; EGU2007-A-10974; GI4-1WE5P-0458
Walden, V.; Town, M.; Halter, B.
 Measurement capabilities of the Polar Atmospheric Emitted
 Radiance Interferometer (P-AERI) for the IPY

XY0459; EGU2007-A-09715; GI4-1WE5P-0459
Yamazaki, A.; Murakami, G.; Yoshioka, K.; Yoshikawa, I.;
 Miyake, W.; Nakamura, M.; Kikuchi, M.; Taguchi, M.; THE
 SELENE/UPI TEAM
 Instrumentation for imagery of the terrestrial plasmasphere
 and the ion outflow at the polar ionosphere

XY0460; EGU2007-A-02042; GI4-1WE5P-0460
Tin, T.; Roura, R.
 Enhancing the environmental legacy of the IPY in Antarctica

Hydrological Sciences

HS6 Operational applications of remote sensing in water resources management and hydrology – Posters

Convener: Ludwig, R.
 Co-Convener(s): Wagner, W., Bernier, M.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 15:30–17:00
 Poster Area Hall A
 Chairperson: WAGNER, W.

A0082; EGU2007-A-03376; HS6-1WE4P-0082
Igamberdiev, R.; Lennartz, B.
 Assessing Inland Surface Water Quality by means of Hyper-
 spectral Remote Sensing – A Literature Review

A0083; EGU2007-A-05936; HS6-1WE4P-0083
D. P. Prajapati, A.; S. Nandargi, B.
 Study of extreme rainfall events and floods over Gujarat
 region during Indian summer monsoon 2006, using ArcGIS

A0084; EGU2007-A-10293; HS6-1WE4P-0084
Khanbilvardi, R.; Mahani, S.
 Multi-Spectral Remotely Sensed Precipitation Estimation

A0085; EGU2007-A-10539; HS6-1WE4P-0085
Toll, D.; Dong, J.; Houser, P.; Arsenault, K.
 NASA and NOAA Surface Water and Energy Balance Data
 for Water Resources Applications

A0086; EGU2007-A-01629; HS6-1WE4P-0086
Wegehenkel, M.; Zhang, Y.
 The use of remote sensing data for water balance modelling

A0087; EGU2007-A-09920; HS6-1WE4P-0087
Hasenauer, S.; Roulin, E.; Kanak, J.
 Validation strategies for scatterometer derived soil moisture
 in the framework of the H-SAF Hydrological Validation
 Programme

A0088; EGU2007-A-03735; HS6-1WE4P-0088
Stisen, S.; Sandholt, I.; Jensen, K.H.; Nørgaard, A.; Fen-
 sholt, R.; Grimes, D.
 Application of remote sensing in distributed hydrological
 modelling. - Towards the remote sensing-driven model

A0089; EGU2007-A-04569; HS6-1WE4P-0089
El Bastawesy, M.
 Integration of remote Sensing and GIS for the assessment of
 flash flood modeling in arid region

A0090; EGU2007-A-09667; HS6-1WE4P-0090
Sandoz, A.; Chauvelon, P.; Pichaud, M.
 Satellite remote sensing used for wetland flooding duration
 and habitats monitoring

A0091; EGU2007-A-01308; HS6-1WE4P-0091
Wagner, W.; Mandlbürger, G.; Dorninger, P.; Hollaus, M.; Strobelberger, G.
 Airborne laser scanning derived terrain models for modelling overland flow

A0092; EGU2007-A-07754; HS6-1WE4P-0092
Lozza, H.; Uriburu Quirno, M.; Lorenzo, A.
 Operational use of spaceborne L-band sensors for flood warning (cancelled)

A0093; EGU2007-A-08180; HS6-1WE4P-0093
Palladino, M.; Fernandez, G.; D'Urso, G.; Moreno, J.
 Studying the relationship between superficial soil water content and observed Land surface Temperature with AHS data and modeling techniques within the SEN2FLEX experiment

A0094; EGU2007-A-06701; HS6-1WE4P-0094
Parajka, J.; Blöschl, G.; Kirnbauer, R.
 Application of MODIS snow cover images to hydrological modeling in Austria

A0095; EGU2007-A-11692; HS6-1WE4P-0095
van Dijk, AIJM; Mattersdorf, G
 Comparison of MODIS-based scaling of potential evapotranspiration with on-ground observations

A0096; EGU2007-A-10225; HS6-1WE4P-0096
Wagner, M.; Ludwig, R.
 A robust algorithm for mapping snow cover dynamics over large spatial domains using MSG data

HS10 Urban impacts on soils and groundwater (co-listed in SSS)

Convener: Mohrlök, U.
 Co-Convener(s): Schiedek, T., Boving, T.
 Lecture Room 31
 Chairperson: MOHRLOK, U.

10:30–10:45; EGU2007-A-01547; HS10-1WE2O-001
Himmelsbach, Th.; Houben, G.; Niard, N.
 Urban groundwater resources and quality in the Kabul Basin, Afghanistan

10:45–11:00; EGU2007-A-02856; HS10-1WE2O-002
Reinstorf, F.; Leschik, S.; Musolff, A.; Strauch, G.; Moeder, M.; Wennrich, R.; Osenbrueck, K.; Schirmer, M.
 Massbalance and integrated modelling of urban micropollutants

11:00–11:15; EGU2007-A-10056; HS10-1WE2O-003
Klingelmann, E.; Stoffregen, H; Pestemer, W; Wessolek, G
 Sorption properties of pavement seam material – an exemplary study with the herbicide glyphosate

11:15–11:30; EGU2007-A-11214; HS10-1WE2O-004
Howerter, K.; Sansalone, J
 Granulometric distribution of metals in urban soils receiving pavement runoff and snowmelt

11:30–11:45; EGU2007-A-06478; HS10-1WE2O-005
Bracic Zeleznik, B.; Sustersic, N.
 The Influence of Urban Drainage on Groundwater Quality and Quantity

11:45–12:00; EGU2007-A-01512; HS10-1WE2O-006
Epting, J.; Huggenberger, P.; Regli, C.; Spoljaric, N.; Kirchhofer, R.
 Integrated methods in urban groundwater management - quantitative information fusion including geostatistical analysis of aquifer heterogeneity and groundwater modeling

12:00 END OF SESSION

HS10 Urban impacts on soils and groundwater (co-listed in SSS) – Posters

Convener: Mohrlök, U.
 Co-Convener(s): Schiedek, T., Boving, T.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 15:30–17:00
 Poster Area Hall A
 Chairperson: SCHIEDEK, T.

A0097; EGU2007-A-04194; HS10-1WE4P-0097
Leschik, S.; Musolff, A.; Bayer-Raich, M.; Reinstorf, F.; Strauch, G.; Oswald, S.; Schirmer, M.
 Using integral pumping tests in urban hydrogeology to estimate sewer leakage

A0098; EGU2007-A-09958; HS10-1WE4P-0098
Klinger, J.; Turkovic, R.; Wolf, L.; Hötzel, H
 Long term investigations of the colmation processes at a real sewer defect

A0099; EGU2007-A-10404; HS10-1WE4P-0099
Mohrlök, U.; Bethge, E.
 Balancing water and solute fluxes in unsaturated zones in urban areas

A0100; EGU2007-A-11213; HS10-1WE4P-0100
Howerter, K.; Sansalone, J
 Mediation of Urban Rainfall-Runoff Metal Speciation as a Result of Engineered Infiltration

A0101; EGU2007-A-11060; HS10-1WE4P-0101
Treskatis, C.
 Hydrogeological-microbial Characterization and Risk Assessment of Urban Water Catchments

A0102; EGU2007-A-07951; HS10-1WE4P-0102
Musolff, A.; Leschik, S.; Strauch, G.; Reinstorf, F.; Oswald, S.; Möder, M.; Schirmer, M.
 Xenobiotics in the aquatic environment of Leipzig, Germany

A0103; EGU2007-A-11332; HS10-1WE4P-0103
Boving, T.B.
 Attenuation of dissolved stormwater runoff contaminants

A0104; EGU2007-A-11501; HS10-1WE4P-0104
Boving, T.; Zhang, W.
 Removal of Aqueous-Phase Polynuclear Aromatic Hydrocarbons Using Aspen Wood Fibers: An Innovative Treatment Method for Urban Runoff

A0105; EGU2007-A-02752; HS10-1WE4P-0105
Abdel-Hafez, T.; Schluechter, C
 Selected geotechnical properties related to clay minerals of rocks of the Eocene Thebes Formation, Egypt.

A0106; EGU2007-A-01647; HS10-1WE4P-0106
Schoups, G.; Seuntjens, P.; Bastiaens, L.; Simons, Q.; Sapion, H.
 Groundwater remediation using reactive barriers: development of a reactive transport model

A0107; EGU2007-A-00156; HS10-1WE4P-0107
Mavlyanov, P.N.; Mavlyanov, G.N
 Geological and engineering problems of the Tashkent Metropolitan construction.

A0108; EGU2007-A-08551; HS10-1WE4P-0108
Pisciotta, A.; Nigro, F.; Cusimano, G.; Favara, R.; Renda, P.
 Vulnerability map of the Nebrodi Mts Area (Sicily)

A0109; EGU2007-A-10962; HS10-1WE4P-0109
Pérez-Quezadas, J.; Cortes, A.; Escolero, O.
 Using hydrogeochemical data as indicators to analyze the flow path in a fault zone

HS12 Geothermal energy and brine transport

Convener: Blum, P.
Co-Convener(s): Kolditz, O., Ackerer, P., Sanchez-Vila, X.
Lecture Room 31
Chairperson: N.N.

15:30–15:45; EGU2007-A-06030; HS12-1WE4O-001
Konz, M.; Ackerer, P.; Younes, A.; Gechter, D.; Zechner, E.; Huggenberger, P.
New 2D benchmark experiment for the density-dependent saltpool problem

15:45–16:00; EGU2007-A-03039; HS12-1WE4O-002
Hidalgo, J. J.; Carrera, J.; Medina, A.
Fluid mass balance inconsistency in density-dependent flow

16:00–16:15; EGU2007-A-06337; HS12-1WE4O-003
Lunati, I.; Jenny, P.
An efficient multiscale finite-volume method for modeling density driven flow in porous media

16:15–16:30; EGU2007-A-10289; HS12-1WE4O-004
Neuville, A.; Toussaint, R.; Schmittbuhl, J.
Hydro-thermal coupling in a rough fracture

16:30–16:45; EGU2007-A-10307; HS12-1WE4O-005
Philipp, S.L.; Thaeter, D.; Oelrich, A.; Gudmundsson, A.
Fault displacements, damage zones, and associated fracturing in geothermal reservoirs

16:45–17:00; EGU2007-A-10128; HS12-1WE4O-006
Baldini, A.; Barberi, F.; Carapezza, M. L.; Cardellini, C.; Chiodini, G.; Frondini, F.; Granieri, D.; Ranaldi, M.
Carbon Dioxide degassing from the geothermal systems of Lateral caldera (Italy): Quantification and modeling of gas release

17:00 END OF SESSION**HS15 Colloids, microorganisms and coupled hydrological, biological and chemical processes in the unsaturated zone**

Convener: Baumann, T.
Co-Convener(s): Abdel-Fattah, A., Harter, T., Wahl, N., Staunton, S., Ellerbrock, R.
Lecture Room 31
Chairperson: N.N.

13:30–14:00; EGU2007-A-01114; HS15-1WE3O-001
Flury, M.;
Colloid transport in unsaturated porous media: on the role of the liquid-gas interface (solicited)

14:00–14:15; EGU2007-A-06531; HS15-1WE3O-002
Lichner, L.; Cipakova, A.; Vogel, T.; Dusek, J.
Particle facilitated transport of cadmium in soil macropores

14:15–14:30; EGU2007-A-08563; HS15-1WE3O-003
Weisbrod, N.;
Impact of Intermittent flow events on Generation and Mobilization of Colloidal Particles in Surface-Exposed Fractured Chalk

14:30–14:45; EGU2007-A-04042; HS15-1WE3O-004
Klitzke, S.K.; Lang, F.
Mobilisation of As-containing Colloids by Liming?

14:45–15:00; EGU2007-A-06744; HS15-1WE3O-005
Totsche, K.;
Reactive transport and transformation in soils: Simultaneous investigation of the interplay and interdependencies of hydraulic, chemical and biological processes

15:00 END OF SESSION**HS15 Colloids, microorganisms and coupled hydrological, biological and chemical processes in the unsaturated zone – Posters**

Convener: Baumann, T.
Co-Convener(s): Abdel-Fattah, A., Harter, T., Wahl, N., Staunton, S., Ellerbrock, R.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 15:30–17:00
Poster Area Hall A
Chairperson: N.N.

A0110; EGU2007-A-01850; HS15-1WE4P-0110
Majdalani, S.; Michel, E.; Angulo-Jaramillo, R.; Di-Pietro, L.
Time effect on in-situ mobilization of colloids in undisturbed soil columns.

A0112; EGU2007-A-05792; HS15-1WE4P-0112
Johnson, W.P.; Ma, H.; Niewiadomski, M.
It's not just the air-water interface: role of pore domain geometry and colloid-colloid interaction in filtration (cancelled)

A0113; EGU2007-A-05899; HS15-1WE4P-0113
Harter, T.; Atwill, E. R.; Hou, L. L.; Karle, B. M.; Tate, K. W.
Developing risk models of Cryptosporidium transport in soils

A0114; EGU2007-A-06200; HS15-1WE4P-0114
Cencur Curk, B.; Bricelj, M.
Simulation of Bacteriological Pollution in the Unsaturated Zone of Karst Rock in Slovenia

A0115; EGU2007-A-08876; HS15-1WE4P-0115
Ottobuelling, S.; v.d. Kammer, F.; Hofmann, T.
Nanoparticles in the Aquatic Environment – Aggregation Behaviour of TiO₂ Nanoparticles studied in a Simplified Aqueous Test Matrix (SAM)

A0116; EGU2007-A-11580; HS15-1WE4P-0116
Baumann, T.;
Transport of reactive nanoparticles: The pore scale perspective

A0117; EGU2007-A-07137; HS15-1WE4P-0117
Ahualli, S.; Tirado, M.; Grosse, C.; Delgado, A. V.
Dielectric spectroscopy of concentrated suspensions of Hematite particles in a broad frequency range

A0118; EGU2007-A-10420; HS15-1WE4P-0118
Gärdenäs, A.; Eckersten, H.; Reinert, A.; Gustafsson, D.; Ekström, P.-A.; Jansson, P.-E.; Greger, M.; Avila, R.
Modelling long-term Accumulation of Radionuclides in the Soil-Plant-System originating from continuous Groundwater Contamination – a Sensitivity Analysis

A0119; EGU2007-A-10473; HS15-1WE4P-0119
Gärdenäs, A.; Eckersten, H.; Reinert, A.; Gustafsson, D.; Ekström, P.-A.; Jansson, P.-E.; Greger, M.; Avila, R.
A Model of Accumulation of Radionuclides in the Soil-Plant System originating from Groundwater Contamination

A0120; EGU2007-A-02514; HS15-1WE4P-0120
Lee, S.-J.; Choi, N.-C.; **Kim, D.-J.;**
Effect of glucose on toluene biodegradation during transport through quartz sand column

A0121; EGU2007-A-02523; HS15-1WE4P-0121
Choi, J.-W.; Choi, N.-C.; Chung, S.-K.; **Kim, D.-J.;**
Modeling of benzene biodegradation during 2-D transport through quartz sand

A0122; EGU2007-A-07553; HS15-1WE4P-0122

Koivusalo, H.; Ahti, E.; Lauren, A.; Kokkonen, T.; Karvonen, T.; Finer, L.
Hydrological impacts of forest management in peatlands – a case of drainage network maintenance

A0123; EGU2007-A-08716; HS15-1WE4P-0123

Dusek, J.; Dohnal, M.; Vogel, T.; Dolezal, F.; Tofteng, C.; Abrahamsen, P.
Numerical simulation of the nitrate fate in a dual-permeability porous system

A0124; EGU2007-A-09770; HS15-1WE4P-0124

Causse, B.; Spadini, L.; Delolme, C.; Guiné, V.; Muris, M.; Curtet, Y.; Heyraud, A.; Gury, J.; Martins, J.
Chemical reactivity, transfer properties and modeling of Zn²⁺, H⁺ sorption onto *Pseudomonas putida* biofilms in batch and column systems.

A0125; EGU2007-A-11548; HS15-1WE4P-0125

Shrestha, R A; Rajbhandari, J J; Lamichhane, P
Study on feasibility of reduction of Arsenic accumulation in crops available in Terai region of Nepal by using cow dung

A0126; EGU2007-A-01612; HS15-1WE4P-0126

Lichner, L.; Hallett, P.D.; Novak, V.; Sir, M.; Tesar, M.
The impact of vegetation on soil water transport properties

A0127; EGU2007-A-10694; HS15-1WE4P-0127

Castellanos, M.T.; Tarquis, A.M.; Rivas, Fco.; Cabello, M.J.; Figueiro, N.; Arce, A.; Cartagena, M.C.
Nutrients dynamic, Nitrogen, Phosphorous and Potassium, under fertirrigated melon crop in a shallow calcareous soil in Spain

HS18 Persistent organic pollutants in soils: sources, sinks, and processing

Convener: Gocht, T.
Co-Convener(s): Jones, K.
Lecture Room 31
Chairperson: GOCHT, T.

8:30–9:00; EGU2007-A-11585; HS18-1WE1O-001

Dachs, J.; Cabrerizo, A.
Air-soil partitioning and cycling of persistent organic pollutants: methods and processes (solicited)

9:00–9:15; EGU2007-A-11608; HS18-1WE1O-002

Jones, K.C.; Bidleman, T.; Harner, T.; Kurt-Karakus, P.; Meijer, S.; Moeckel, C.
Soils as a source of persistent organic pollutants to the global atmosphere: Evidence and techniques for assessing their contribution

9:15–9:30; EGU2007-A-02872; HS18-1WE1O-003

Kuntz, D.; Grathwohl, P.
Persistent organic pollutants in the unsaturated soil domain under transient flow conditions

9:30–9:45; EGU2007-A-06166; HS18-1WE1O-004

Pagels, B.; Totsche, K. U.; Kögel-Knabner, I.
Mobilization of mobile particles and organic contaminants in alluvial top soils during flood events

9:45–10:00; EGU2007-A-02515; HS18-1WE1O-005

Brändli, R.C.; Bucheli, T.D.; Desauls, A.; Ammann, S.; Keller, A.; Stahel, W.A.
Critical evaluation of PAH source apportionment methods in Swiss background soil

10:00 END OF SESSION

HS18 Persistent organic pollutants in soils: sources, sinks, and processing – Posters

Convener: Gocht, T.
Co-Convener(s): Jones, K.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 15:30–17:00
Poster Area Hall A
Chairperson: GOCHT, T.

A0128; EGU2007-A-10717; HS18-1WE4P-0128

Steidle, D.; Gocht, T.; Kuntz, D.; Ruopp, K.; Grathwohl, P.
Two years of atmospheric deposition monitoring of polycyclic aromatic hydrocarbons (PAHs) in five European river catchments: results and comparison with PAH-concentrations in soils

A0129; EGU2007-A-11584; HS18-1WE4P-0129

Chaemfa, C.; Sweetman, A.; Gocht, T.; Harner, T.; Holoubek, I.; Klanova, J.; Jones, K.
A Field Deployment Study and Calibration of PolyUrethane Foam (PUF) Passive Air Samplers for Persistent Organic Pollutants (POPs)

A0130; EGU2007-A-00505; HS18-1WE4P-0130

Cavoski, I.; D'Orazio, V.; Miano, T.
Mobility and sorption kinetics of biopesticide in soils

A0131; EGU2007-A-07298; HS18-1WE4P-0131

McGrath, G.; **Hinz, C.;** Sivapalan, M.
Climate based risk of pesticide leaching by preferential flow: A regional assessment in the south-west of Western Australia

A0132; EGU2007-A-08514; HS18-1WE4P-0132

Yang, Y.; Cajthaml, T.; Pies, C.; Achten, C.; Hofmann, T.
Sequestration of PAHs by coal and coal-derived particles in river floodplain soils

A0133; EGU2007-A-02811; HS18-1WE4P-0133

Wehrer, M.; Totsche, K.U.
PAH release from tar-oil contaminated silty soil material in response to forced environmental gradients: Implications for contaminant transport

A0134; EGU2007-A-00751; HS18-1WE4P-0134

Mavlyanov, N.
Ecological board for ground waters of the irrigated zone

HS22 River and stream temperature: dynamics, processes, models and implications – Posters

Convener: Hannah, D.
Co-Convener(s): Nobilis, F.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 15:30–17:00
Poster Area Hall A
Chairperson: HANNAH, D.

A0135; EGU2007-A-00069; HS22-1WE4P-0135

Bonacci, O.; Trninic, D.; Roje-Bonacci, T.
Analyses of water temperature regime at Danube and its tributaries in Croatia

A0136; EGU2007-A-01774; HS22-1WE4P-0136

Brown, L.E.; Hannah, D.M.
Alpine stream temperature response to storm events

A0137; EGU2007-A-05002; HS22-1WE4P-0137

Cadbury, S.L.; **Hannah, D.M.;** Milner, A.M.; Pearson, C.P.; Brown, L.E.
Stream temperature dynamics within a New Zealand glacierized river basin

A0138; EGU2007-A-11198; HS22-1WE4P-0138

Yang, D.; Liu, B.; Berezovskaya, S.; Ye, B

Long-term open-water season stream temperature variations and changes over Lena River Basin in Siberia

A0139; EGU2007-A-11359; HS22-1WE4P-0139

Zweimueller, I.

Temperature increase in the Austrian Danube - causes and consequences

A0140; EGU2007-A-07821; HS22-1WE4P-0140

Bezhenar, R.; **Brovchenko, I.**; Heling, R.; Jenner, H.; Kusch, A.; Koshebutskyy, V.; Maderich, V.; Terletska, K. Application of 3D numerical model THREEETOX to the prediction of cooling water transport and mixing

A0141; EGU2007-A-05961; HS22-1WE4P-0141

Haag, I.; Luce, A.

The combined water-balance and water temperature model LARSIM-WT

A0142; EGU2007-A-07001; HS22-1WE4P-0142

Ducharme, A.

Importance of stream temperature to climate change impact on water quality

A0143; EGU2007-A-08119; HS22-1WE4P-0143

Kvambekk, Å. S.

Manipulation of river discharge in Suldalslågen, and its effect on the water temperature

A0144; EGU2007-A-06453; HS22-1WE4P-0144

Hannah, D.M.; Malcolm, I.A.; Soulsby, C.; Youngson, A.F. A comparison of forest and moorland stream microclimate, heat exchanges and thermal dynamics

A0145; EGU2007-A-05294; HS22-1WE4P-0145

Malcolm, I.A.; Hannah, D.M.; Soulsby, C.; Bacon, P.J.; Youngson, A.F.

The Influence of Riparian Woodland on Stream Temperatures: Implications for juvenile salmonids

A0146; EGU2007-A-05593; HS22-1WE4P-0146

Constantinescu, T.L.

Comparison between Saprobic index and physical – chemical elements supporting the biological community for some rivers from Romania. (cancelled)

A0147; EGU2007-A-10540; HS22-1WE4P-0147

Ibisch, R. B.; Krätz, D.; Borchardt, D.

Effects of colmation processes in the hyporheic zone on stream temperature patterns of the River Yalbag (Mongolia)

A0148; EGU2007-A-07494; HS22-1WE4P-0148

Moog, O.; Ofenböck, T.

Is the water temperature a suitable predictor of longitudinal bio-zonation patterns in streams?

A0149; EGU2007-A-05097; HS22-1WE4P-0149

Taylor, B. R.; Dykstra, A. N.

Effects of hot ground water on a small swamp-stream in Nova Scotia, Canada

A0150; EGU2007-A-05069; HS22-1WE4P-0150

Taylor, B. R.; MacDonald, E. E.; Andrushchenko, I.

Temperature response of litter decomposition in streams of eastern Canada depends on the thermal tolerance of a leaf-shredding insect

HS23 Hydrological, chemical and biological processes in rivers and riparian zones (co-listed in BG & GM)

Convener: Krause, S.

Co-Convener(s): Buytaert, W., Fleckenstein, J., Tetzlaff, D., Malcolm, I., Reeves, A.

Lecture Room 30 (C)

Chairperson: KRAUSE, S.; BUYTAERT, W.

10:30–10:45; EGU2007-A-05459; HS23-1WE2O-001

Haggerty, R.; Burkholder, B. K.; Grant, G. E.; Jefferson, A.; Wampler, P.; Khangaonkar, T. P.

Temperature influence of hyporheic geomorphology in a large, gravel-bed river: Measurements and modeling in the Clackamas River, Oregon, USA (solicited)

10:45–11:00; EGU2007-A-03114; HS23-1WE2O-002

Anibas, C.; FWO-EXECO Team

Quantification of the groundwater-surface water interaction by analysing temperature gradients in the streambed of the Aa river, Belgium

11:00–11:15; EGU2007-A-05555; HS23-1WE2O-003

Lischeid, G.; Weyer, C.; Peiffer, S.; Reinhardt, A.

Quantitative analysis of climatic and hydrological controls on solute dynamics in the riparian zone

11:15–11:30; EGU2007-A-03488; HS23-1WE2O-004

Schmidt, C.; Bayer Raich, M.; Schirmer, M.

The influence of stream-groundwater interactions on the spatial distribution of organic contaminants in the streambed

11:30–11:45; EGU2007-A-00982; HS23-1WE2O-005

Bianchin, M.; Smith, L.; Beckie, R.

Field observations of hyporheic exchange on a large tidally influenced river: The Fraser River, British Columbia, Canada

11:45–12:00; EGU2007-A-09351; HS23-1WE2O-006

Fleckenstein, J.H.; Niswonger, R.G.; Frei, S.; Kollet, S.; Maxwell, R.M.; Fogg, G.E.

How important is geologic Heterogeneity in River-Aquifer Exchange ?

12:00 LUNCH BREAK

Chairperson: BUYTAERT, W.; FLECKENSTEIN, J.

13:30–13:45; EGU2007-A-11185; HS23-1WE3O-001

Soulsby, C.; Malcolm, I. A.; Tetzlaff, D.

The role of riparian wetlands in hillslope-channel connectivity in upland catchments: hydrological, hydrochemical and ecological significance (solicited)

13:45–14:00; EGU2007-A-10523; HS23-1WE3O-002

Wilson, J.L.; Cardenas, M.B.

Streamflow, turbulent eddies and interfacial exchange with the hyporheic zone

14:00–14:15; EGU2007-A-01286; HS23-1WE3O-003

Goody, D C.; Binley, A.; Bloomfield, J P; Johnes, P J; Peach, D W; Shand, P; Wheeler, H S

The role of the riparian zone in complex Chalk aquifer-river systems

14:15–14:30; EGU2007-A-09496; HS23-1WE3O-004

Grant, J.; Soulsby, C; Malcolm, I.A.; Gibbins, C

Do groundwater - surface water exchange patterns in the floodplain channels of a braided river affect spawning site selection by Atlantic salmon?

14:30–14:45; EGU2007-A-03426; HS23-1WE3O-005
Kalbus, E.; Schmidt, C.; Bayer-Raich, M.; Leschik, S.; Reinstorf, F.; Balcke, G.U.; Schirmer, M.
 Quantification of Water and Solute Flows between Groundwater and Stream by Combining Integral Pumping Tests and Streambed Temperatures

14:45–15:00; EGU2007-A-05317; HS23-1WE3O-006
Manful, D. Y.; Kaule, G.; Wieprecht, S.; Rees, J.G.
 Framework for integrating numerical hydro-ecological simulation output into a linguistic decision making domain

15:00 COFFEE BREAK

Chairperson: TETZLAFF, D.; MALCOLM, I.A.

15:30–15:45; EGU2007-A-08997; HS23-1WE4O-001
Kennedy, M.P.; Soulsby, C.; Racey, P.A.; Iason, G.
 Ecohydrological approaches to managing water and land use for wetland conservation in Kasanka National Park, Zambia

15:45–16:00; EGU2007-A-03679; HS23-1WE4O-002
Macleod, C.J.A.; Binley, A.; Clark, L.J.; Hawkins, S.L.; Humphreys, M.; King, I.P.; Scholefield, D.; Turner, L.B.; Whalley, W.R.; Haygarth, P.M.
 Genetically modified hydrographs: what can grass genetics do for temperate catchment hydrology?

16:00–16:15; EGU2007-A-07417; HS23-1WE4O-003
 Lane, S.N.; **Mould, D.C.**
 Too much water? Challenging the wisdom that regulated rivers need higher minimum flows

16:15–16:30; EGU2007-A-01914; HS23-1WE4O-004
Bloor, M.; Bacon, P.; Beaumont, W.
 Long-term integrated data reveals the importance of water quality for fish productivity and performance

16:30–16:45; EGU2007-A-11422; HS23-1WE4O-005
Youngson, A.F.; Imholt, C.; Malcolm, I.A.; Meyer, E. I.; Soulsby, C.
 Interstitial flow rates in simulated Atlantic salmon nests

16:45–17:00; EGU2007-A-11348; HS23-1WE4O-006
Richardson, J.S.; Moore, R.D.; Hinch, S.G.
 Direct, indirect, and nearly always non-linear biological responses to dynamics of the physical stream environment (solicited)

17:00 END OF SESSION

HS27 Open session on catchment modelling and process analysis

Convener: Moussa, R.
 Co-Convener(s): Uhlenbrook, S., Lischeid, G., Andrieu, H., Lawler, D.
 Lecture Room 28 (B)
 Chairperson: MOUSSA R., UHLENBROOK S.

8:30–8:45; EGU2007-A-10682; HS27-1WE1O-001
Kienzler, P.; Naef, F.
 Estimates of subsurface storm flow intensity

8:45–9:00; EGU2007-A-01216; HS27-1WE1O-002
Longuevergne, L.; Florsch, N.; Elsass, P.
 Extracting hydrological processes with Karhunen-Loève Transform: case study of an alluvial aquifer (Upper Rhine valley)

9:00–9:15; EGU2007-A-08592; HS27-1WE1O-003
 Perrin, J.L.; Grillot, C.; Tournoud, M.G.
 Hydrological processes in an intermittent river catchment: perception through observations and validation through modelling.

9:15–9:30; EGU2007-A-05484; HS27-1WE1O-004
Lange, J.; Hänsler, A.
 Stream temperature as a tracer to document runoff generation at different moisture states

9:30–9:45; EGU2007-A-09593; HS27-1WE1O-005
Smith, P.; Beven, K.; Dean, S.; Freer, J.; Gallart, F.; Latron, J.
 Using tracer injected into a river for the estimation of the spatial distribution of inflow to a river reach.

9:45–10:00; EGU2007-A-10789; HS27-1WE1O-006
Sauer, T.; Seeger, M.; Casper, M.
 Constraints on parameterization of soil hydraulic properties for modelling

10:00 COFFEE BREAK

Chairperson: LISCHIED, G., ANDRIEU, H.

10:30–11:00; EGU2007-A-11344; HS27-1WE2O-001
Refsgaard, J.C.
 Scales, uncertainty and strategy in catchment modelling (solicited)

11:00–11:15; EGU2007-A-00894; HS27-1WE2O-002
Grabs, T.; Seibert, J.; Laudon, H.
 Modelling spatial patterns of saturated areas: a comparison of the topographic wetness index and a distributed model

11:15–11:30; EGU2007-A-08292; HS27-1WE2O-003
Jackson, B.; Francis, O.; Frogbrook, Z.; Marshall, M.; Reynolds, B.; McIntyre, N.; Solloway, I.; Wheeler, H.
 The impact of upland land management on flooding at multiple spatial scales

11:30–11:45; EGU2007-A-09128; HS27-1WE2O-004
Charlier, J. B.; Moussa, R.; Cattani, P.; Voltz, M.
 Hydrological modelling from the plot to the catchment scales in a tropical cultivated area

11:45–12:00; EGU2007-A-07336; HS27-1WE2O-005
Bardossy, A.; Ayros, E.; Schaefer, P.
 Rainfall-runoff modeling in Northern-Afghanistan

12:00 LUNCH BREAK

Chairperson: LAWLER, D., MOUSSA, R.

13:30–14:00; EGU2007-A-09994; HS27-1WE3O-001
Seibert, J.; McDonnell, J.J.
 Gauging the ungauged basin: What is the value of limited streamflow measurements? (solicited)

14:00–14:15; EGU2007-A-08683; HS27-1WE3O-002
Blume, T.; Zehe, E.; Iroume, A.; Bronstert, A.
 A pristine, poorly gauged Catchment in the Chilean Andes: an integrated Approach to investigate its Runoff Generation Processes

14:15–14:30; EGU2007-A-01818; HS27-1WE3O-003
Gironás, J.; Roesner, L. A.; Andrieu, H.
 Morphologic Approach in Studying Developing Urban Watersheds

14:30–14:45; EGU2007-A-07436; HS27-1WE3O-004
Weill, S.; Mouche, E.
 Darcy multi-domain approach for integrated surface/subsurface hydrologic models

14:45–15:00; EGU2007-A-09818; HS27-1WE3O-005
Schmitz, O.; Karssenbergh, D.; van Deursen, W.; Bogaard, T.
 Integrated, exploratory catchment modelling: coupling
 PCRaster and MODFLOW

15:00 END OF SESSION

HS27 Open session on catchment modelling and process analysis – Posters

Convener: Moussa, R.
 Co-Convener(s): Uhlenbrook, S., Lischeid, G., Andrieu, H.,
 Lawler, D.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 15:30–17:00

Poster Area Hall A

Chairperson: MOUSSA, R., UHLENBROOK, S., LIS-
 CHEID, G., ANDRIEU, H., LAWLER, D.

A0151; EGU2007-A-10636; HS27-1WE4P-0151

Williams, A; Dowd, J; Heppell, C

Stormflow generation: a detailed investigation of hillslope
 pathways in a headwater catchment in Southwest England.

A0152; EGU2007-A-05328; HS27-1WE4P-0152

Chirico, G.B.; De Vita, P.; Masciale, R.; Portoghese, I.;
 Romano, N.; Sica, B.; Vurro, M.

Investigating dominant processes controlling the hillslope
 response in a Mediterranean Basin

A0153; EGU2007-A-02356; HS27-1WE4P-0153

Viville, D.

Hydrological behaviour of the granitic Strengbach catch-
 ment (Vosges massif, Eastern France)

A0154; EGU2007-A-02742; HS27-1WE4P-0154

Beylich, A.A.

The quantitative role of chemical weathering, solute fluxes
 and chemical denudation in four different catchments in
 Iceland, Swedish Lapland and Finnish Lapland

A0155; EGU2007-A-01498; HS27-1WE4P-0155

Schmid, B. H.

Can we predict solute concentrations in rivers and streams?

A0156; EGU2007-A-09515; HS27-1WE4P-0156

Wollschläger, U.; Gerhards, H.; Roth, K.

Combining GPR, TDR, and hydraulic inversion for obtain-
 ing a large scale effective hydraulic parameterization

A0157; EGU2007-A-07507; HS27-1WE4P-0157

Nicolas, M.; Vandervaere, J. P.; Voisin, G.; Lapetite, J. M.;
 Esteves, M.; Miscioscia, J. M.

Experimental study of surface runoff under simulated
 rainfall: effects of rain intensity variations.

A0158; EGU2007-A-10660; HS27-1WE4P-0158

Ajayi, A.E.; Abiodun, B.J.; van de Giesen, N.; Ogun-
 tunde, P.G.

A rainfall –runoff partitioning model for tropical catchments
 with vegetation elements

A0159; EGU2007-A-05595; HS27-1WE4P-0159

Fenicia, F.; Savenije, H.H.G; Pfister, L.

Towards improved conceptualization in hydrological mod-
 elling: a case study on interception.

A0160; EGU2007-A-09786; HS27-1WE4P-0160

Bourqui, M; Mathevet, T; Loumagne, C

What can we expect by accounting for the spatial variability
 of rainfall in lumped rainfall-runoff models?

A0161; EGU2007-A-09740; HS27-1WE4P-0161

Liuzzo, L.; Noto, L.V.; La Loggia, G.

Modelling runoff with a conceptual model based on integra-
 tion of topographic index in a probability distributed model

A0162; EGU2007-A-03535; HS27-1WE4P-0162

Sraj, M.; Brilly, M.

Water balance model for Slovenian balance regions

A0163; EGU2007-A-04555; HS27-1WE4P-0163

Wrede, S.; Seibert, J.; Uhlenbrook, S.; Savenije, H.H.G

Distributed conceptual modelling considering sub-grid
 variability of land use in a mesoscale lowland catchment in
 Sweden

A0164; EGU2007-A-07676; HS27-1WE4P-0164

Nicòtina, L.; Rinaldo, A.; Marani, M.

Rainfall spatial variability and geomorphic hydrologic
 response

A0165; EGU2007-A-10005; HS27-1WE4P-0165

Delahaye, D.; **Douvinet, J.;** Gaillard, D.; Langlois, P.

Modeling the dynamic effects of catchment morphology on
 surface flow paths in small catchments of the Paris Basin,
 France.

A0166; EGU2007-A-01227; HS27-1WE4P-0166

De Doncker, L.; Troch, P.; Verhoeven, R.; Buis, K.; Meire, P.

Flood routing in the river Aa using 'Femme'

A0167; EGU2007-A-05982; HS27-1WE4P-0167

Pincovski, I.; Gogoase Nistoran, D.E.; **Armas, I.;** Ro-
 taru, E.

Use of HEC-HMS rainfall-runoff model in the Subcarpathian
 Prahova Valley-Romania

A0168; EGU2007-A-07570; HS27-1WE4P-0168

Khatibi, R.; Butcher, P; Clarke, A

Uptake of the conveyance estimation system (CES)

A0169; EGU2007-A-08952; HS27-1WE4P-0169

Yu, D.; Lane, SN

Coupled modelling of flood inundation over a topographi-
 cally complex urban floodplain

A0170; EGU2007-A-09556; HS27-1WE4P-0170

Adamowski, J.

Development of a short-term river flood forecasting method
 based on wavelet analysis

A0171; EGU2007-A-08612; HS27-1WE4P-0171

Sulis, M.; Kollet, S. J.; Maxwell, R. M.; Paniconi, C.;
 Putti, M.

Coupled surface–groundwater flow modeling: comparison
 of two physics-based numerical models

A0172; EGU2007-A-08736; HS27-1WE4P-0172

Sulis, M.; Moretti, G.; Orlandini, S.; Paniconi, C.

Analysis of the interactions between rivulets and the sur-
 rounding soil domain in an integrated groundwater–surface
 water model

A0173; EGU2007-A-03752; HS27-1WE4P-0173

Bethers, U.; Gaidelene, J.; Sennikovs, J.; **Timuhins, A.**

The physically-based scalable catchment and river runoff
 model application to the Latvian rivers

A0174; EGU2007-A-03562; HS27-1WE4P-0174

Koskova, R.; Hesse, C.; Nemeckova, S.; Krysanova, V.

Implementation of the SWIM model at the meso-scale basin:
 the Malse case study

A0175; EGU2007-A-06177; HS27-1WE4P-0175

Nemeckova, S.

Soil data parametrisation for rainfall-runoff modelling
 (model SWIM) in the Labe river basin

A0176; EGU2007-A-04407; HS27-1WE4P-0176
Zimmermann, A.; Pakosch, S.; Disse, M.
 Comparison of WaSiM-ETH 6.4 and 7.5 with regard to the influences of different landuse and tillage practice on runoff formation and runoff concentration

A0177; EGU2007-A-01349; HS27-1WE4P-0177
Mishra, V.; Raghuwanshi, N.S.; Schmitz, G.H.; **Kumar, R.**
 WaSiM-ETH- Model Performance and Parameter Sensitivity at Increased Spatial Scale

A0178; EGU2007-A-10347; HS27-1WE4P-0178
Carriero, D.; Manfreda, S.; Fiorentino, M.
 Distributed snowmelt simulation in the experimental basin of "Fiumarella of Corleto" (Southern Italy)

A0179; EGU2007-A-03875; HS27-1WE4P-0179
Leitinger, G.; Wohlfahrt, G.; Tappeiner, U.
 Simulating the Effects of Land-Use Changes on Landscape-Scale Water Cycles in Alpine Landscapes

A0180; EGU2007-A-00695; HS27-1WE4P-0180
Bolton, W.R.; Boike, J.
 Incorporation of a two-direction freeze-thaw algorithm into a spatially-distributed hydrologic model

A0181; EGU2007-A-11071; HS27-1WE4P-0181
Mainerici, A.M.
 Impact of Cerna – Motru – Tismana hydroenergetic complex upon the environment

HS37 Sustainable catchment management: assessing water quality on the catchment scale – Posters

Convener: Bormann, H.
 Co-Convener(s): Fohrer, N., Voltz, M., Bogen, H.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 15:30–17:00
 Poster Area Hall A
 Chairperson: N.N.

A0182; EGU2007-A-01225; HS37-1WE4P-0182
Morvan, X.; Mouvet, C.; Bruand, A.; Baran, N.; Cousin, I.
 Pesticide pollution in a sandy aquifer draining a 250 ha watershed

A0183; EGU2007-A-01428; HS37-1WE4P-0183
Kim, J. S.; Oh, K. Y.; Song, C. M.
 Phosphorus dynamics in a Korean mixed agricultural catchment during storm events

A0184; EGU2007-A-04136; HS37-1WE4P-0184
Young, E.A.; Taylor, K.G.; Dobson, M.; Drew, I.B.
 Spatial patterns of phosphorus within water and channel bed sediment in two urban rivers, northwest UK.

A0185; EGU2007-A-04561; HS37-1WE4P-0185
Lee, W. A.
 Development of sustainable catchment management strategies from sediment monitoring in urban tropics

A0186; EGU2007-A-03816; HS37-1WE4P-0186
Zlabek, P.; Kvitek, T.; Zajicek, A.; Ondr, P.; Pursova, K.; Bystricky, V.
 The influence of land use in recharge zones in small catchments on nitrate concentrations and loss - basis for agricultural management regulation in vulnerable zones designated according to the Nitrates Directive 676/91/EEC.

A0187; EGU2007-A-07539; HS37-1WE4P-0187
Kunkel, R.; Eisele, M.; Schäfer, W.; Tetzlaff, B.; Wendland, F.
 Required N-surplus reduction by agriculture to reach environmental targets for nitrate loads to the groundwater of catchment areas

A0188; EGU2007-A-06654; HS37-1WE4P-0188
Yang, Y.S.; Wang, J. L.
 Integrated management of diffuse groundwater nitrate risk at catchment scale

A0189; EGU2007-A-09029; HS37-1WE4P-0189
Wang, L.; Yang, Y.S.
 Sustainable water quality management of agricultural diffuse pollution at catchment scale for the implementation of the EU Water Framework Directive

A0190; EGU2007-A-07885; HS37-1WE4P-0190
Váchal, J.; **Moravcová, J.;** Koupilová, M.
 Regional zonation on small catchments and its usage for water quality evaluation

A0191; EGU2007-A-05914; HS37-1WE4P-0191
Lee, T.C.; Tung, C.P.; Chen, Y.J.; Wang, S.W.
 A long-term early warning system for stream assimilative capacity management to respond to climate change

A0192; EGU2007-A-10825; HS37-1WE4P-0192
Dietrich, J.
 Integrated catchment modelling for strategic planning and decision making: Werra case study

A0193; EGU2007-A-06333; HS37-1WE4P-0193
Ruzicka, K.; Gabriel, O.; Wegracht, U.; Zessner, M.
 Cause and effect relationship between foam formation and treated wastewater effluents in a transboundary river

A0194; EGU2007-A-06733; HS37-1WE4P-0194
Zessner, M.; Wegracht, U.; Ruzicka, K.
 Cost-effectiveness of foam abatement on a transboundary river (cancelled)

A0195; EGU2007-A-02168; HS37-1WE4P-0195
Cardellini, C.; Frondini, F.; **Morgantini, N.**
 Trace elements natural concentrations in the sedimentary aquifers of central Italy

A0196; EGU2007-A-11028; HS37-1WE4P-0196
Dimitrakopoulos, D.; Vassiliou, E.; Founda, M.
 "Impacts of mining activities on water resources to Megalopolis lignite district area"

HS42 Integrated water resources assessment, with special focus on developing countries

Convener: van der Zaag, P.
 Co-Convener(s): Uhlenbrook, S., Rosbjerg, D., van de Giesen, N.
 Lecture Room 30 (C)
 Chairperson: VAN DER ZAAG, P.

8:30–8:45; EGU2007-A-05836; HS42-1WE1O-001
Holländer, H.M.; Mull, R.; Panda, S.N.
 Groundwater assessment and management of excess surface water for sustainable use of an alluvial coastal aquifer in eastern India

8:45–9:00; EGU2007-A-07853; HS42-1WE1O-002
Carrera-Hernandez, J. J.; Gaskin, S. J.
 A regional hydrogeological model for the Basin of Mexico

9:00–9:15; EGU2007-A-01231; HS42-1WE1O-003
Katiyo, L.; Feyen, J.; Letcher, R.A.
 An integrated catchment model for my developing country catchment, or, choosing a bride for my son

9:15–9:30; EGU2007-A-10053; HS42-1WE1O-004
Leemhuis, C.; **Rodgers, C.;** Agyare, W.
 Integrated assessment in a data-scarce environment: the use of model ensembles to enable rational water management in the Volta Basin, West Africa

9:30–9:45; EGU2007-A-07925; HS42-1WE1O-005
Gunkel, A.; Lange, J.; Menzel, L.; Wiesendanger, C.
 Development of a new modelling tool as starting point for water management in the lower Jordan river catchment

9:45–10:00; EGU2007-A-08723; HS42-1WE1O-006
 Tilmant, A; **Pinte, D.**; Goor, Q
 Assessing the marginal water values in multireservoir systems

10:00 END OF SESSION

HS43 Instruments for integrated and transboundary water resources management

Convener: Schumann, A.
 Co-Convener(s): Savenije, H., McCulloch, C., Fohrer, N., de Jong, C., Meire, P., Lakuvich, L.
 Lecture Room 28 (B)
 Chairperson: N.N.

15:30–15:45; EGU2007-A-02981; HS43-1WE4O-001
McCulloch, C.S.; Ioris, A.A.R
 Putting politics into IWRM

15:45–16:00; EGU2007-A-01233; HS43-1WE4O-002
van Ast, J.A.; van Schie, N.
 Interactive Water Management and the Level of Participation in Decision-making

16:00–16:15; EGU2007-A-01013; HS43-1WE4O-003
Dimitrova, I.
 Application of theoretical and practical knowledge in the process of integrated water management in Bulgaria

16:15–16:30; EGU2007-A-08901; HS43-1WE4O-004
Gandolfi, C.; TwoLe Team
 IWRM in the Adda basin, Northern Italy

16:30–16:45; EGU2007-A-10831; HS43-1WE4O-005
Van Cauwenbergh, N.; Pinte, D.; Tilmant, A.; Van-clooster, M.
 Indicators for Integrated Water Resources Management

16:45–17:00; EGU2007-A-10697; HS43-1WE4O-006
Dietrich, J.; Schumann, A.
 System analytic tools for IWRM: decision process modelling and multi-criteria analysis in an unstructured decision environment

17:00–17:15; EGU2007-A-06456; HS43-1WE4O-007
Cencur Curk, B.; Vidmar, S.
 SDSS as a Tool for Physical Planning Based on Scientific Knowledgebase

17:15–17:30; EGU2007-A-06644; HS43-1WE4O-008
Zessner, M.
 River Danube: Management of nutrient fluxes in a large river basin

17:30 END OF SESSION

Magnetism, Palaeomagnetism, Rock Physics & Geomaterials

MPRG04 One hundred years after Brunhes: geomagnetic reversal and palaeointensity behaviour (co-listed in GD and NP)

Convener: Hoffman, K.
 Co-Convener(s): Biggin, A., Valet, J., Laj, C.
 Lecture Room 34
 Chairperson: N.N.

13:30–14:00; EGU2007-A-03145; MPRG04-1WE3O-001
Frankel, H.
 Jan Hospers' defense of field reversals and geocentric axial dipole hypothesis (solicited)

14:00–14:15; EGU2007-A-05719; MPRG04-1WE3O-002
Hoffman, K.
 Transitional VGPs and the development of our understanding of geomagnetic reversal

14:15–14:30; EGU2007-A-06059; MPRG04-1WE3O-003
Coe, R.; Jarboe, N.
 How complex are reversals?

14:30–14:45; EGU2007-A-05670; MPRG04-1WE3O-004
Leonhardt, R.; Fabian, K.
 Paleomagnetic reconstruction of the global geomagnetic field evolution during the Matuyama/Brunhes transition (solicited)

14:45–15:00; EGU2007-A-06959; MPRG04-1WE3O-005
Brown, M. C.; Gratton, M. N.; Soler, V.; Brown, L. L.; Johnson, C. L.; Shaw, J.
 New palaeomagnetic data from the Brunhes-Matuyama reversal: A global perspective

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-09014; MPRG04-1WE4O-001
Laj, C.; Kissel, C.
 Geomagnetic excursions in the Brunhes Chron (solicited)

15:45–16:00; EGU2007-A-03941; MPRG04-1WE4O-002
Valet, JP.; Plenier, G
 Why are there similar signals for excursions and reversals?

16:00–16:15; EGU2007-A-07505; MPRG04-1WE4O-003
Herrero-Bervera, E.; Valet, JP
 Short-term evolution of the Earth's magnetic field recorded in Hawaiian lava (solicited)

16:15–16:30; EGU2007-A-03012; MPRG04-1WE4O-004
Linder, J.; Leonhardt, R.
 Paleomagnetic directions and intensities across a Middle Miocene geomagnetic reversal sequence recorded in East Iceland

16:30–16:45; EGU2007-A-05761; MPRG04-1WE4O-005
Narteau, C.; Le Mouél, J.-L.; Valet, J.-P.
 Two types of reversals (solicited)

16:45–17:00; EGU2007-A-04965; MPRG04-1WE4O-006
Christl, M.; Kubik, P. W.; Mangini, A.
 Geomagnetic Variability from Beryllium-10 in deep-sea Sediments

17:00 COFFEE BREAK

Chairperson: BIGGIN, A.

17:30–17:45; EGU2007-A-08257; MPRG04-1WE5O-001
Genevey, A.; Gallet, Y.; Rosen, J.; Le Goff, M.
 Geomagnetic field intensity variations in Western Europe over the past eight hundred years

17:45–18:00; EGU2007-A-00752; MPRG04-1WE5O-002
Hill, M. J.
 A Review of the Microwave Palaeointensity Method (solicited)

18:00–18:15; EGU2007-A-02026; MPRG04-1WE5O-003
Tarduno, J.A.; Cottrell, R.D.
 The Kiaman Reversed Polarity Superchron at Kiama (solicited)

18:15–18:30; EGU2007-A-04510; MPRG04-1WE5O-004
Fabian, K.; Leonhardt, R.
 Theoretical analysis and experimental tests of multiple specimen absolute paleointensity determination techniques

18:30–18:45; EGU2007-A-06106; MPRG04-1WE5O-005
Biggin, A
 The quasi-perpendicular method of absolute palaeointensity determination: application to multidomain samples

18:45 END OF SESSION

MPRG04 One hundred years after Brunhes: geomagnetic reversal and palaeointensity behaviour (co-listed in GD and NP) – Posters

Convener: Hoffman, K.
 Co-Convener(s): Biggin, A., Valet, J., Laj, C.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 08:30–10:00
 Poster Area Hall A
 Chairperson: N.N.

A0197; EGU2007-A-08391; MPRG04-1WE1P-0197
Kissel, C.; Laj, C.; Waelbroeck, C.; Wandres, C.
 The Blake excursion recognized in marine cores from the southern hemisphere

A0198; EGU2007-A-07596; MPRG04-1WE1P-0198
Herrero-Bervera, E.; Valet, JP.
 The Pringle Falls polarity episode recorded in the Deschutes river area: a revisited study

A0199; EGU2007-A-06104; MPRG04-1WE1P-0199
Mochizuki, N.; Tsunakawa, H.; Shibuya, H.; Tagami, T.; Ozawa, A.; Smith, I.
 Further K-Ar dating and paleomagnetic study of the Auckland geomagnetic excursions

A0200; EGU2007-A-02072; MPRG04-1WE1P-0200
Lerbekmo, J.F.; **Evans, M.E.**
 Cryptochrons, subchrons, and tiny wiggles: evidence from the Palaeocene-Eocene of western Canada

A0201; EGU2007-A-02863; MPRG04-1WE1P-0201
Sorriso-Valvo, L.; Carbone, V.; Stefani, F.; Nigro, G.
 The statistical properties of paleomagnetic reversals: measurements and models

A0202; EGU2007-A-06820; MPRG04-1WE1P-0202
Le Goff, M.; **Gallet, Y.;** Genevey, A.
 Potential of high-temperature magnetization measurements for archeo- and paleo-intensity studies

Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 10:30–12:00

Poster Area Hall A
 Chairperson: N.N.

A0203; EGU2007-A-11440; MPRG04-1WE2P-0203
Dekkers, M.J.; Bohnel, H.N.
 Reliable absolute paleointensity independent of magnetic domain state: The

A0204; EGU2007-A-02710; MPRG04-1WE2P-0204
Macri, P.; Sagnotti, L.; Lucchi, R.G.; Rebesco, M.
 A relative geomagnetic paleointensity stack for the past 270 kyr from the western continental rise of the Antarctic Peninsula

A0205; EGU2007-A-00636; MPRG04-1WE2P-0205
Saleh, A.
 Paleointensity determinations of some early Paleozoic granite rocks from Sinai peninsula, Egypt

MPRG07 Open session in rock magnetism and paleomagnetism – Posters

Convener: Franke, C.
 Co-Convener(s): Vasiliev, I.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 13:30–15:00
 Poster Area Hall A
 Chairperson: FRANKE, C.

A0206; EGU2007-A-09012; MPRG07-1WE3P-0206
Coimbra, R.; Rey, D.; Mohamed, K.; Vilas, F.; Frederichs, T.
 Magnetomineralogical features presented by Heinrich events detected on sediments from the Upper Pleistocene and Holocene at the Galicia Bank (NW Iberian Margin)

A0207; EGU2007-A-09053; MPRG07-1WE3P-0207
Coimbra, R.; Rey, D.; Mohamed, K.; Vilas, F.
 Paleosecular variation registered on sediments from the last 30 kyr at the Galician Atlantic Margin

A0208; EGU2007-A-10133; MPRG07-1WE3P-0208
Stanton, T
 New Holocene magnetic data from a varved lake sequence in central west Sweden.

A0209; EGU2007-A-05679; MPRG07-1WE3P-0209
Pisarevsky, S.; Tait, J.
 Palaeomagnetism of Neoproterozoic Sedimentary Successions – the Key to Precambrian Palaeogeography

A0210; EGU2007-A-06902; MPRG07-1WE3P-0210
Deenen, M.H.L.; van Hinsbergen, D.J.J.; Langereis, C.G.
 The reliability of paleomagnetic directions

A0211; EGU2007-A-10415; MPRG07-1WE3P-0211
Zió³kowski, P.
 Palaeomagnetism of Middle Oxfordian limestones from the Kraków Upland (Poland) - primary record or Cenozoic overprint?

A0212; EGU2007-A-05721; MPRG07-1WE3P-0212
Muxworthy, A.; Heslop, D.
 Revisiting hysteresis quantification and representation

A0213; EGU2007-A-07563; MPRG07-1WE3P-0213
Diaz, M.; **Costanzo-Alvarez, V.;** Sarga, J.
 Hydrocarbon-induced magnetic authigenesis in Guafita and El Furrial oil fields, (Venezuela)

A0214; EGU2007-A-05695; MPRG07-1WE3P-0214
Cukavac, M.; Jovanovic, D.; Gerzina, N.; Vasiljevic, I.
 Geophysical modeling of geological profiles by the terrestrial geomagnetic investigations

A0215; EGU2007-A-08158; MPRG07-1WE3P-0215
Pini, S.; Brigatti, M.F.; Di Gioacchino, D.; Marcelli, A.; Tripodi, P.
 Magnetism of micas: a comparison between crystal chemistry and AC susceptibility

A0216; EGU2007-A-09197; MPRG07-1WE3P-0216
B. Raposo, M. I.; D'Agrella-Filho, M. D.; P. Pinese, J. P.
 Magnetic fabrics and rock magnetism of Archaean and Proterozoic dike swarms in the southern São Francisco Craton, Brazil.

Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 15:30–17:00

Poster Area Hall A
Chairperson: VASILIEV, I.

A0217; EGU2007-A-09171; MPRG07-1WE4P-0217
Verard, C; Leonhardt, R; Fabian, K; **Winklhofer, M**
High-resolution paleo- and rockmagnetic studies on individual transitional lava flows

A0218; EGU2007-A-08308; MPRG07-1WE4P-0218
Lubnina, N.; Cecys, A.; Soderlund, U.
Paleomagnetic studies on the Mesoproterozoic dykes in Central Sweden: preliminary results

A0219; EGU2007-A-08167; MPRG07-1WE4P-0219
Michalk, D.M.; Nowaczyk, N.; Böhnell, H.; Negen-
dank, J.F.W
Geomagnetic Secular Variation as derived from Brunhes Chron lavas from Central Mexico and hints to four geomagnetic excursions

A0220; EGU2007-A-09813; MPRG07-1WE4P-0220
Coster, P.; Benammi, M.; Jaeger, J.J.; Chaimanee, Y.
New magnetic polarity stratigraphy of the Mae Moh basin in northern Thailand

A0221; EGU2007-A-10548; MPRG07-1WE4P-0221
Szurlies, M.
Lower Muschelkalk magnetostratigraphy from Central Germany and its relationship to the Middle Triassic geomagnetic polarity timescale

A0222; EGU2007-A-04238; MPRG07-1WE4P-0222
Hounslow, M.W.; Peters, C.; Mørk, A.; Weitschat, W.; Vigran, J.; Hu, M.; Karloukovski, V.
Magneto-biostratigraphy of the Vikinghøgda Fm, Central Svalbard and the geomagnetic polarity timescale for the Lower Triassic

A0223; EGU2007-A-04346; MPRG07-1WE4P-0223
Hounslow, M.W.; Hu, M.; Mørk, A.; Weitschat, W.; Vigran, J.; Karloukovski, V.; Orchard, M.J.
Magnetostratigraphy of the Middle Triassic of central Spitsbergen, and its relationship to Tethyan-based magneto-biostratigraphies

A0224; EGU2007-A-00771; MPRG07-1WE4P-0224
Trifonova, P.; Zhelev, Zh.; Petrova, T.
Locations of Curie point depths and Moho of the Bulgarian territory

MPRG14 The effect of temperature on rock properties

Convener: Burlini, L.
Co-Convener(s): Meredith, P.
Lecture Room 34
Chairperson: DRESEN, G.

8:30–8:45; EGU2007-A-05474; MPRG14-1WE1O-001
Gerya, T.V.
Rheology of rocks at convergent plate boundaries: Thermal-mechanical coupling (solicited)

8:45–9:00; EGU2007-A-09380; MPRG14-1WE1O-002
Armann, M.; Burlini, L.; Spiers, C.J.; Podladchikov, Y.; Burg, J.-P.
The effect of temperature on the rheology and microstructure of synthetic rocksalt deformed in torsion

9:00–9:15; EGU2007-A-02583; MPRG14-1WE1O-003
Delle Piane, C.; Burlini, L.; Kunze, K.; Burg, J.P.
Thermal effect on the relative strength of calcite-dolomite: torsion experiments and natural examples

9:15–9:30; EGU2007-A-06691; MPRG14-1WE1O-004
Heap, M.; Baud, P.; Meredith, P.; Reuschle, T.
Time-dependent brittle creep in Sandstone

9:30 END OF SESSION

MPRG14 The effect of temperature on rock properties – Posters

Convener: Burlini, L.
Co-Convener(s): Meredith, P.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 13:30–15:00
Poster Area Hall A
Chairperson: MEREDITH, P.

A0225; EGU2007-A-07949; MPRG14-1WE3P-0225
Vlcko, J.; Jezny, M.; Durmekova, T.; Liscak, P.; Adamcova, R.; Brcek, M.
Thermal expansion of rocks, a part of extremely slow slope displacements

A0226; EGU2007-A-03832; MPRG14-1WE3P-0226
Petuzalek, M.; Lokajicek, T.; Rudajev, V.; Vilhelm, J.
Changes of kinematic and dynamic parameters of ultrasonic sounding as a result of different types of loading regimes and different orientation of rock foliation

A0227; EGU2007-A-01473; MPRG14-1WE3P-0227
Maj, S.
Phonon thermal conductivity of carbonate geomaterials: A relationship to adiabatic incompressibility

Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 15:30–17:00

Poster Area Hall A
Chairperson: BURLINI, L.

A0228; EGU2007-A-05246; MPRG14-1WE4P-0228
Solferino, G.; Bagdassarov, N.; Schmidt, M.W.
Interconnectivity of Iron-sulfide Melts in an Olivine Matrix

A0229; EGU2007-A-07761; MPRG14-1WE4P-0229
Dyshe, D.; Bisschop, J.; **Jettstuen, E**
Pattern formation on sodium chlorate crystal surfaces under stress

A0230; EGU2007-A-00384; MPRG14-1WE4P-0230
Büyüksaraç, A.; **Bektaş, O.**
Curie point depth of inner East Anatolia (Turkey)

MPRG17 Strain localization in rocks (co-listed in TS)

Convener: de Bresser, H.
Co-Convener(s): Dresen, G.
Lecture Room 34
Chairperson: N.N.

10:30–10:45; EGU2007-A-06623; MPRG17-1WE2O-001
Burlini, L.
Strain localization from deformation experiments in torsion: results from the working group of ETH (solicited)

10:45–11:00; EGU2007-A-08449; MPRG17-1WE2O-002
Drury, M.R.; Palasse, L.; Pennock, G.M.; Ave Lalle-mant, H.G.; Vissers, R.L.M.; van Roermund, H.L.M.
Deformation mechanisms and rheology of localized shear zones in exhumed mantle rocks. (solicited)

11:00–11:15; EGU2007-A-06683; MPRG17-1WE2O-003
Kock, I.; Huhn, K.
Numerical investigation of micro-scaled localization and micromechanics in a granular soil specimen

11:15–11:30; EGU2007-A-01458; MPRG17-1WE2O-004
Haimson, B.; Oku, H.; Song, S.

Distinct modes of strain localization in “jacketed” and “unjacketed” siltstone just above the active Chelungpu fault, Taiwan

11:30–11:45; EGU2007-A-09772; MPRG17-1WE2O-005
Louis, L.; Wong, T.-f.; Baud, P.

Pore space heterogeneity and compaction localization in sandstone in light of x-ray computed tomography

11:45–12:00; EGU2007-A-10546; MPRG17-1WE2O-006
Le Pourhiet, L.; Podladchikov, Y.
a scaling law for morph coulomb rheology

12:00–12:15; EGU2007-A-02736; MPRG17-1WE2O-007
Rybacki, E.; Dresen, G.

Strain localization and ductile failure of mixed and layered anorthite-diopside aggregates (solicited)

12:15–12:30; EGU2007-A-07175; MPRG17-1WE2O-008
Kellermann Slotemaker, A.; **de Bresser, J.H.P.;** Spiers, C.J.
The effect of dynamic recrystallization on the evolution of flow stress during deformation to high strain

12:30 END OF SESSION

MPRG17 Strain localization in rocks (co-listed in TS) – Posters

Convener: de Bresser, H.

Co-Convener(s): Dresen, G.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 13:30–15:00

Poster Area Hall A

Chairperson: N.N.

A0231; EGU2007-A-02519; MPRG17-1WE3P-0231

Delle Piane, C.; Wilson, C.; Burlini, L.

Strain localization in calcite-muscovite aggregates

A0232; EGU2007-A-03301; MPRG17-1WE3P-0232

Ke, C.C.; Yang, C.H.; Chen, C.S.

Mixed Mode Fracture Toughness of Anisotropic Rock

A0233; EGU2007-A-04953; MPRG17-1WE3P-0233

Saleh, A.; **Mekkawi, M**

Stresses analysis of active area in the eastern desert of Egypt using magnetic and anisotropy techniques

A0234; EGU2007-A-08147; MPRG17-1WE3P-0234

Thust, A.; Leiss, B.; Vollbrecht, A.; Kleinhanns, I.C.

Localized ductile deformation of meta-quartzites related to the emplacement of mini-laccoliths - an example from the Paleoproterozoic Västervik Formation (SE-Sweden)

A0235; EGU2007-A-10801; MPRG17-1WE3P-0235

Le Pourhiet, L.; Lacombe, O.

Low angle normal faults and there “non-Coulombian conjugate” fault. A concept of anti-localization

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 15:30–17:00

MPRG Poster Area

Chairperson: N.N.

Natural Hazards

NH1.04 Precipitation Science (co-listed in AS) (including Sergey Soloviev Medal Lecture)

Convener: Smith, E.

Co-Convener(s): Kidd, C., Mugnai, A., Nakamura, K., Tripoli, G.

Lecture Room 24

Chairperson: MUGNAI, A.

8:30–8:45; EGU2007-A-07400; NH1.04-1WE1O-001

Price, C.; Federmesser, B.

Lightning-rainfall relationships in Mediterranean winter thunderstorms based on TRMM measurements (solicited)

8:45–9:00; EGU2007-A-04140; NH1.04-1WE1O-002

Lagouvardos, K.; Kotroni, V.

TRMM and lightning observations of a low-pressure system over the Eastern Mediterranean (solicited)

9:00–9:15; EGU2007-A-07132; NH1.04-1WE1O-003

Takayabu, Y. N.

Analysis of rain characteristics based on rain-yields per flash (RPF) calculated from TRMM PR and LIS data (solicited)

9:15–9:30; EGU2007-A-08196; NH1.04-1WE1O-004

Liou, Y.A.; Kar, S.K.; Lin, F.S.

Estimation of convective precipitation from cloud-to-ground lightning data over Taiwan (solicited)

9:30–9:45; EGU2007-A-09746; NH1.04-1WE1O-005

Betz, H.-D.

Lightning Detection with VLF/LF and VHF Networks (solicited)

9:45–10:00; EGU2007-A-10441; NH1.04-1WE1O-006

Morales, C.A.; Machado, L.A.; Biscaro, T.; Tochio, A.; Angelis, C.F.

Evaluation of Rainfall Estimation Retrievals in Brazil (solicited)

10:00 COFFEE BREAK

Chairperson: SMITH, E.A.

10:30–11:00; EGU2007-A-11632; NH1.04-1WE2O-001

Berz, G.

Natural Disasters and Climate Change: Causes, Costs and Counter-Measures (Sergey Soloviev Medal Lecture) (solicited)

11:00–11:15; EGU2007-A-11001; NH1.04-1WE2O-002

Lovejoy, S.; Schertzer, D.

The scale dependence of rain: from raindrop stereophotography to global TRMM orbits (solicited)

11:15–11:30; EGU2007-A-09692; NH1.04-1WE2O-003

Lionello, P

Precipitation in the Mediterranean Region: present trends and climate change (solicited)

11:30–11:45; EGU2007-A-10399; NH1.04-1WE2O-004

Silva Dias, M.A.F.; Martins, J.A.; Machado, L.A.T.; Morales, C.A.; Goncalves, F.L.T

The precipitation modes in the Amazon Basin (solicited)

11:45–12:00; EGU2007-A-05632; NH1.04-1WE2O-005

Sohn, B.J.; Park, S.C.

Use of satellite-derived water budget data to assess water vapor transports from reanalysis data (solicited)

12:00 END OF SESSION

NH1.04 Precipitation Science (co-listed in AS) (including Sergey Soloviev Medal Lecture) – Posters

Convener: Smith, E.
Co-Convener(s): Kidd, C., Mugnai, A., Nakamura, K., Tripoli, G.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: MITCHELL, K.

XY0461; EGU2007-A-11205; NH1.04-1WE3P-0461

Houser, P; Schlosser, C; Lin, B; Entin, J
A Satellite View of Global Water and Energy Cycling (solicited)

XY0462; EGU2007-A-10531; NH1.04-1WE3P-0462

Foufoula-Georgiou, E; Basu, S
Advances in precipitation forecast verification: The Forecast Quality Index and a case study in assessing WRF model performance (solicited)

XY0463; EGU2007-A-10285; NH1.04-1WE3P-0463

Deidda, R.
Characterization and simulation of space-time rainfall variability using multifractal theory (solicited)

XY0464; EGU2007-A-11182; NH1.04-1WE3P-0464

Michaelides, S.C.
A multi-platform perspective of precipitation measurement and estimation (solicited)

XY0465; EGU2007-A-11005; NH1.04-1WE3P-0465

Liu, W.; Xie, X.
Ocean Influence of Continental Rainfall (solicited)

XY0466; EGU2007-A-11367; NH1.04-1WE3P-0466

Pereira, A.
Precipitation studies over Brazil (solicited)

XY0467; EGU2007-A-08231; NH1.04-1WE3P-0467

Lin, P.-L.; Wang, T.-C.; Liao, Y.-C.; Chang, W.-Y.; Chien, C.-L.; Hsu, Y.-J.; Lu, C.-H.; Chi, P.-T.
Application of disdrometer and dual polarimetric radar observations to improve the quantitative precipitation estimation in Taiwan (solicited)

XY0468; EGU2007-A-09927; NH1.04-1WE3P-0468

Hudak, D.; Joe, P.
Winter precipitation studies using weather radar (solicited)

XY0469; EGU2007-A-11186; NH1.04-1WE3P-0469

Calheiros, R
Precipitation Monitoring and Research Projects at the Meteorological Research Institute, Brazil. (solicited)

XY0470; EGU2007-A-10030; NH1.04-1WE3P-0470

Battaglia, A; Simmer, C
The role of multiple scattering effects in space-borne radar-based rainfall estimates (solicited)

XY0471; EGU2007-A-10486; NH1.04-1WE3P-0471

Amitai, E.
Studying rain rate from space, ground and underwater observations: Present and future (solicited)

XY0472; EGU2007-A-09253; NH1.04-1WE3P-0472

Llort, X.; Sempere-Torres, D.; Berenguer, M.; Zawadzki, I.; Germann, U.
Error structure in radar-based precipitation estimates (solicited)

XY0473; EGU2007-A-06389; NH1.04-1WE3P-0473

Nakamura, K; Yamamoto, M. K.
Typical patterns of microwave signatures and vertical profiles of precipitation in mid-latitude using TRMM data (solicited)

XY0474; EGU2007-A-06235; NH1.04-1WE3P-0474

Masunaga, H.; Kummerow, C. D.; L'Ecuyer, T. S.
Tropical rainfall climatology analyzed from satellite measurements (solicited)

XY0475; EGU2007-A-11192; NH1.04-1WE3P-0475

Fuentes, J.D.; Kucera, P.A.; Joseph, E.; Gerlach, J.; Jenkins, G.; Gaye, A.; Ndiaye, M.
Attributes of mesoscale convective storms in West Africa (solicited)

XY0476; EGU2007-A-10728; NH1.04-1WE3P-0476

Kidd, C; Ebert, E; Janowiak, J; Ferraro, R
Current status of the precipitation validation sites of the International Precipitation Working Group (solicited) (cancelled)

XY0477; EGU2007-A-10147; NH1.04-1WE3P-0477

Martinez-Castro, D; Pérez-Sánchez, C.; Gamboa-Romero, F.; Koloskov, B; Petrov, V; Korneev, V
Randomized Convective Cloud Seeding Experiment for precipitation enhancement in Cuba. Experimental design and first results. (solicited)

XY0478; EGU2007-A-11194; NH1.04-1WE3P-0478

Mehta, A.; Smith, E.; Tripoli, G.
Rain Characteristics over Western India from TRMM and Nonhydrostatic Cloud Resolving Model (solicited)

XY0479; EGU2007-A-05152; NH1.04-1WE3P-0479

Yang, S.
Climatology of seasonal convective and stratiform rainfall from TRMM measurements (solicited)

XY0480; EGU2007-A-11368; NH1.04-1WE3P-0480

Weinman, J.
X-band spaceborne synthetic aperture radar for rainfall retrieval over land as a component of GPM (solicited)

XY0481; EGU2007-A-11099; NH1.04-1WE3P-0481

Mugnai, A.; Bennartz, R.; Casella, D.; Hashino, T.; Sandò, P.; Smith, E.A.; Tripoli, G.J.
Precipitation retrieval by means of passive-microwave satellite observations and cloud model simulations: Impact of ice microphysics parameterization (solicited)

XY0482; EGU2007-A-11168; NH1.04-1WE3P-0482

Tripoli, G. J.; Dunion, J.; Hashino, T.
Impacts of Saharan Air Layer on Tropical Cyclone Genesis (solicited)

XY0483; EGU2007-A-11484; NH1.04-1WE3P-0483

Smith, E. A.
Advancements in Measurement of Precipitation from GEO and LEO Satellites (solicited)

XY0484; EGU2007-A-11369; NH1.04-1WE3P-0484

Negri, A.
An examination of the global tropical diurnal cycle of rainfall as a function of ENSO (solicited)

XY0485; EGU2007-A-04606; NH1.04-1WE3P-0485

Pongracz, R.; Bartholy, J.
Analysis of precipitation trends detected in the Carpathian Basin during the 20th century

XY0486; EGU2007-A-04683; NH1.04-1WE3P-0486

Knuth, S.; Tripoli, G.; Thom, J.; Weidner, G.; Stearns, C.
Estimation of Snow Accumulation in Antarctica Using Automated Acoustic Depth Gauge Measurements

XY0487; EGU2007-A-06145; NH1.04-1WE3P-0487

Tapiador, FJ; Martinez, MA; Gonzalo, C; Salgado, E; Mateos, A
Half-hourly physically-morphed global precipitation estimates

XY0488; EGU2007-A-06488; NH1.04-1WE3P-0488

Szwed, M.

Water balance in the selected regions of Poland in the changing climate

XY0489; EGU2007-A-06589; NH1.04-1WE3P-0489

Rögnvaldsson, Ó.; Ólafsson, H.

Contribution of orography to precipitation distribution in Iceland

XY0490; EGU2007-A-07260; NH1.04-1WE3P-0490

Yokoyama, C.; Takayabu, Y. N.

A statistical study on rain characteristics of tropical cyclones using TRMM satellite data

XY0491; EGU2007-A-08320; NH1.04-1WE3P-0491

Ferraz, S.E.T; Ambrizzi, T.; Rocha, R.P.

New criterion to select the South Atlantic Convergence Zone (cancelled)

XY0492; EGU2007-A-08387; NH1.04-1WE3P-0492

Andersson, A.; Fennig, K.; Bakan, S.; Grassl, H.; Klepp, C.; Schulz, J.

HOAPS-3: Improved global ocean freshwater-flux climatology derived from SSM/I satellite data

XY0493; EGU2007-A-08431; NH1.04-1WE3P-0493

Lin, P.-L.; Chen, C.-S.; Chen, Y.-L.; Liu, C.-L.; Chen, W.-C.

The Statistics of Heavy Rainfall Occurrences in Taiwan

XY0494; EGU2007-A-08918; NH1.04-1WE3P-0494

Ólafsson, H.; Brynjólfsson, S.; Rögnvaldsson, Ó.

High-resolution simulations of precipitation in North-Iceland

XY0495; EGU2007-A-09201; NH1.04-1WE3P-0495

De Sanctis, KDS; Molini, LM; Parodi, AP; Ferretti, RF; Montopoli, MP; Marzano, FSM

High-resolution numerical forecast of convective precipitation systems: sensitivity analysis to microphysical parameterization using COSMO-MODEL and MM5

XY0496; EGU2007-A-09859; NH1.04-1WE3P-0496

Celano, M.; Roberto, N.; Capacci, D.; Porcù, F.; Alberoni, P.; Prodi, F.

Using multispectral satellite sensors and polarimetric radar to infer cloud microphysical structure

XY0497; EGU2007-A-10734; NH1.04-1WE3P-0497

Krawinkel, J.; Ólafsson, H.

Variability of precipitation in S-Iceland

XY0498; EGU2007-A-11091; NH1.04-1WE3P-0498

Mugnai, A.; The HSAF-ISAC Team

The EUMETSAT Satellite Application Facility in support to Operational Hydrology and Water Management (H-SAF): Precipitation retrieval algorithms and precipitation products

XY0499; EGU2007-A-11116; NH1.04-1WE3P-0499

Mugnai, A.; The ISAC-GSFC-AOS Team

Precipitation retrieval and analysis by means of combined satellite observations, lightning data and cloud model simulations

XY0500; EGU2007-A-11172; NH1.04-1WE3P-0500

Haynes, J.M.; L'Ecuyer, T.S.; Stephens, G.L.

Clouds and the incidence of precipitation from CloudSat

XY0501; EGU2007-A-11190; NH1.04-1WE3P-0501

Wood, N.; Stephens, G.; L'Ecuyer, T.; Austin, R.; Haynes, J. CloudSat radar retrievals for evaluation of snowfall and snowpack characteristics

XY0502; EGU2007-A-03362; NH1.04-1WE3P-0502

Schröter, K.; Ostrowski, M.; Sempere-Torres, D.; Velasco-Forero, C.; Nachtnebel, H.P.; Kahl, B.; Gocht, M.; Beyene, M.

Effectiveness and Efficiency of Early Warning Systems for Flash Floods – EWASE

XY0503; EGU2007-A-06254; NH1.04-1WE3P-0503

Zinner, T.; Mannstein, H.; **Tafferner, A.**

Cb-TRAM: Tracking and monitoring severe convection from onset over rapid development to mature phase using multi-channel Meteosat-8 SEVIRI data

XY0504; EGU2007-A-06789; NH1.04-1WE3P-0504

Tabary, P.

Current status of the French dual-polarisation project

XY0505; EGU2007-A-07192; NH1.04-1WE3P-0505

Zanon, F.; Bechini, R.; Cremonini, R.; Rabuffetti, D.; Borga, M. Extreme rainfall and flooding from a quasi stationary MCS in north-western Italy

XY0506; EGU2007-A-07220; NH1.04-1WE3P-0506

Meetschen, D.; Simmer, C.

Operational radar-based Estimation and Prediction of Precipitation for Flood Forecast

XY0507; EGU2007-A-07748; NH1.04-1WE3P-0507

Kober, K.; **Tafferner, A.**

Tracking of convective cells using remote sensing data from radar and satellite

XY0508; EGU2007-A-09298; NH1.04-1WE3P-0508

Dietrich, S.; Di Paola, F.; Bizzarri, B.; Chen, F. W.; Surussavadee, C.; Staelin, D. H.

Satellite-based Precipitation Monitoring over Europe using AMSU-A and AMSU-B Sounding Channels

XY0509; EGU2007-A-09309; NH1.04-1WE3P-0509

Dombai, F.; **Horvath, Gy.;** Nagy, J.; Nemeth, P.

The updated Hungarian weather radar network

XY0510; EGU2007-A-09484; NH1.04-1WE3P-0510

Pfaff, T.; Heistermann, M.; Ehret, U.; Zehe, E.; Bronstert, A. Towards an operational rainfall estimation and now-casting using weather radar and ground measurements

XY0511; EGU2007-A-09644; NH1.04-1WE3P-0511

García, S.; Hernández-Guillén, Z

Early drought warming from Modis

XY0512; EGU2007-A-03463; NH1.04-1WE3P-0512

Rossi, M.; Peruccacci, S.; Witt, A.; Guzzetti, F.; Malamud, B.D.; Pizzolo, M.

Correlations between historical landslides and rainfall from 1951 to 2002 in the Emilia-Romagna region of northern Italy

XY0513; EGU2007-A-11317; NH1.04-1WE3P-0513

Pratt, A.

Microphysical characteristics within a developing tropical cyclone

XY0514; EGU2007-A-02055; NH1.04-1WE3P-0514

Stocker, E

Overview for TRMM data products and services

XY0515; EGU2007-A-11486; NH1.04-1WE3P-0515

MASCARO, G.; Deidda, R.; Vivoni, E.

Development and verification of a hydrometeorological forecasting chain

XY0516; EGU2007-A-11487; NH1.04-1WE3P-0516

Badas, M.G.; **Deidda, R.;** Mascaro, G.; Piga, E.

Comparing rainfall scaling laws of different radar dataset

XY0517; EGU2007-A-11494; NH1.04-1WE3P-0517
Carty, H.; **SMITH, E.**
Diurnal Precipitation Cycle of Marine Stratocumulus Clouds

XY0518; EGU2007-A-11495; NH1.04-1WE3P-0518
Kuo, K.; **SMITH, E.**
Matching TRMM-PR and CloudSat-CPR Rainrates

NH1.05 Propagation of uncertainty in advanced meteorological forecast systems (co-listed in AS)

Convener: Alberoni, P.
Co-Convener(s): Ferraris, L., Bruen, M., Rossa, A.
Lecture Room 24
Chairperson: ALBERONI, P.P.

15:30–15:45; EGU2007-A-08671; NH1.05-1WE4O-001
Rossa, A. M.
The COST 731 Action 'Propagation of Uncertainty in Advanced Meteorological Forecast Systems' (solicited)

15:45–16:00; EGU2007-A-07437; NH1.05-1WE4O-002
Germann, U.; Berenguer, M.; Sempere-Torres, D.; Zappa, M.
Ensemble radar precipitation estimation for hydrology in the Alps

16:00–16:15; EGU2007-A-08478; NH1.05-1WE4O-003
Haase, G.; Gjertsen, U.; Bech, J.
Use of a radar beam propagation model to improve radar data quality

16:15–16:30; EGU2007-A-05283; NH1.05-1WE4O-004
Rezacova, D.; Zacharov, P.; Sokol, Z.
Evaluation of uncertainty in the area related QPF of heavy convective precipitation

16:30–16:45; EGU2007-A-06444; NH1.05-1WE4O-005
Ferraris, L.; Brussolo, E.; von Hardenberg, J.; Provenzale, A.; Rebora, N.
A probabilistic tool for meteorological prediction validation

16:45–17:00; EGU2007-A-09353; NH1.05-1WE4O-006
Celano, M.; Marsigli, C.; Morgillo, A.; Alberoni, P.P.; Porcù, F.; Prodi, F.
Comparison between polarimetric radar cloud observations and Limited Area Model microphysical fields in a deep convection event

17:00 COFFEE BREAK

Chairperson: FERRARIS, L.

17:30–17:45; EGU2007-A-08725; NH1.05-1WE5O-001
Schaaake, J.; Restrepo, P.; Seo, D-J; Hartman, R.; Werner, K.; Wu, L.; Demargne, J.
Development of an integrated strategy for including weather and climate forecast information in ensemble forcing for hydrologic ensemble prediction (solicited)

17:45–18:00; EGU2007-A-08457; NH1.05-1WE5O-002
Mittermaier, M.
Using time-lag ensemble techniques to assess the behaviour of high-resolution precipitation forecasts

18:00–18:15; EGU2007-A-09247; NH1.05-1WE5O-003
Nurmi, P.; Näsman, S.; Zingerle, C.
Entity-based verification in the intercomparison of three NWP models during a heavy snowfall event

18:15–18:30; EGU2007-A-03647; NH1.05-1WE5O-004
Amengual, A.; Romero, R.; Alonso, S.
A hydro-meteorological model ensemble strategy applied to four extreme rainfall events in a small-size basin of Majorca Island, Spain

18:30–18:45; EGU2007-A-04852; NH1.05-1WE5O-005
Diomedea, T.; Davolio, S.; Marsigli, C.; Miglietta, M.M.; Morgillo, A.; Moscatello, A.
A meteorological prediction system based on a multi-model approach for ensemble precipitation forecasting

18:45–19:00; EGU2007-A-08032; NH1.05-1WE5O-006
Marty, R.; Djerboua, A.; Obled, Ch.; Zin, I.
Using probabilistic quantitative precipitation forecasts (QPFs) within a hydro-meteorological chain

19:00 END OF SESSION

NH1.06 Lightning (co-listed in AS)

Convener: Betz, H.
Co-Convener(s): Soula, S., Price, C.
Lecture Room 7
Chairperson: BETZ, H.

13:30–13:45; EGU2007-A-11126; NH1.06-1WE3O-001
Adamo, C.; Formenton, M.; **Mugnai, A.**
Convection characterization by means of infrared observations from geosynchronous satellites and lightning data from VLF ground-based networks

13:45–14:00; EGU2007-A-07550; NH1.06-1WE3O-002
Hughes, A R W; Collier, A B
Seasonal and Diurnal variation over Southern Africa and the effects of warm ocean currents

14:00–14:15; EGU2007-A-03235; NH1.06-1WE3O-003
Yair, Y.; Aviv, R.; Price, C.; Asfur, M.; Ravid, G.
Can spontaneous synchronization of lightning flashes occur in a network of distant thunderstorms?

14:15–14:30; EGU2007-A-05344; NH1.06-1WE3O-004
Hobara, Y.; Williams, E.; Boldi, R.; Satori, G.; Bor, J.; Lyons, W.; Nelson, T.; Hayakawa, M.; Nathou, N.; Russell, B.
Mesoscale lightning in West African squall lines and its global detection with ELF measurements

14:30–14:45; EGU2007-A-03528; NH1.06-1WE3O-005
Katsanos, D.; Lagouvardos, K.; Kotroni, V.; Argiriou, A.
Lightning Activity in the Central and Eastern Mediterranean and its relationship with Cloud Microphysical Characteristics and Radar Reflectivity, measured by Spaceborne Sensors.

14:45–15:00; EGU2007-A-02500; NH1.06-1WE3O-006
Biron, D.; De Leonibus, L.; Betz, H. D.; Giorgi, C.
A Lightning Data Comparison Campaign, with Locations Produced by Two Different Detection Network in Central Europe: LAMPINET and LINET.

15:00 COFFEE BREAK

Chairperson: PRICE, C.

15:30–15:45; EGU2007-A-03399; NH1.06-1WE4O-001
Hehemann, K.; Finke, U.; **Drüe, C.**; Hauf, T.
Comparison of lightning polarity and amplitude measured by a regional SAFIR network to operational BLIDS data

15:45–16:00; EGU2007-A-05137; NH1.06-1WE4O-002
Lojou, J.-Y.; Murphy, M.; Demetriades, N.; Cummins, K.
 Comparison of LF and VHF lightning detection methods for
 thunderstorm warning and nowcasting applications

16:00–16:15; EGU2007-A-09803; NH1.06-1WE4O-003
Betz, H.-D.; Schmidt, K.; Oettinger, P.; Defer, E.
 LINET - A New Lightning Detection Network in Europe

16:15–16:30; EGU2007-A-06674; NH1.06-1WE4O-004
Berthelie, J.J.; Simões, F.; Godefroy, M.; Seran, E.;
 Yahi, S.; Pommereau, J.P.; François, P.; Maria, J.L.
 Balloon electric field measurements near an active convec-
 tive storm during the AMMA campaign

16:30–16:45; EGU2007-A-09002; NH1.06-1WE4O-005
 Montanya, J.; van der Velde, O.; Soula, S.; **Neubert, T.**;
 Bech, J.; Mika, A.
 Analysis of lightning associated with a sprite displaced from
 its parent positive cloud to ground lightning flash

16:45–17:00; EGU2007-A-08800; NH1.06-1WE4O-006
Huang, T.-Y.; Nee, J.; Chiang, C.; Chen, A.; Kuo, C.;
 Su, H.; Hsu, R.
 On the mechanisms of the enhancement observed by ISUAL
 at the OH nightglow altitude

17:00 END OF SESSION

NH1.06 Lightning (co-listed in AS) – Posters

Convener: Betz, H.
 Co-Convener(s): Soula, S., Price, C.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: BETZ, H.

XY0519; EGU2007-A-11241; NH1.06-1WE5P-0519
Kikuchi, H.
 Laboratory Evidence of Helicity or Vortex Generation in
 an Electric Quadrupole: Simulation of Tornadoes with and
 without Lightning

XY0520; EGU2007-A-04939; NH1.06-1WE5P-0520
Falcon, N.; Quintero, A.
 Influence of electrical self-polarization aerosols in the
 microphysical evolution of intracloud lightning flashes

XY0521; EGU2007-A-02652; NH1.06-1WE5P-0521
Price, C.; Yair, Y.; Asfur, M.
 East African Lightning as a Precursor of Atlantic Hurricane
 Activity

XY0522; EGU2007-A-00843; NH1.06-1WE5P-0522
Schmidt, K.; Fuchs, B.; Meyer, V.; Betz, H.-D.
 On the discrimination between cloud lightning and cloud-to-
 ground strokes using different techniques

XY0523; EGU2007-A-05612; NH1.06-1WE5P-0523
 Dziewit, Z.; **Loboda, M.**; Gajda, W.; Konarski, J.; Betz, H.-
 D.
 Comparison of Lightning Data from PERUN and LINET in
 Poland

XY0524; EGU2007-A-06695; NH1.06-1WE5P-0524
Mazarakis, N.; Kotroni, V.; Lagouvardos, K.
 Storms and Lightning Activity in Greece during the Warm
 Period of the years 2003–2006

XY0525; EGU2007-A-07319; NH1.06-1WE5P-0525
 Chowdhury, amc; Hussain, F
 Status of lightning in Bangladesh

XY0526; EGU2007-A-10732; NH1.06-1WE5P-0526
Höller, H.; Bürgesser, R.; Avila, E.; Betz, H.D.
 On the world lightning distribution as inferred from
 WWLLN and LINET

XY0527; EGU2007-A-11220; NH1.06-1WE5P-0527
 Venevsky, S.; Woodward, S.
 Simulation of global lightning distribution based on thermo-
 dynamic and aerosol hypotheses

XY0528; EGU2007-A-05363; NH1.06-1WE5P-0528
Sátori, G.; Lemperger, I.
 Areal variations of global lightning on the 11-year solar cycle

XY0529; EGU2007-A-01881; NH1.06-1WE5P-0529
Farges, T.; Blanc, E.; Herry, P.; Flavin, V.; Neubert, T.
 Sprite and Lightning Infrasound Measurements during the
 2005 Eurosprite Campaign

XY0530; EGU2007-A-07943; NH1.06-1WE5P-0530
 Lidvansky, A.S.; Khaerdinov, N.S.
 Dynamics of cosmic rays in thunderstorm atmosphere

XY0531; EGU2007-A-03657; NH1.06-1WE5P-0531
Gjesteland, T.; Østgaard, N.; Stadsnes, J.
 Monte Carlo simulation of Terrestrial Gamma ray Flashes
 production altitude

XY0532; EGU2007-A-02308; NH1.06-1WE5P-0532
 Karimov, R.; **Mullayarov, V.**; Kozlov, V.
 Relation of long-periodic variations of thunderstorm VLF
 radionoise intensity and solar wind density

NH3.04 Remote sensing and geophysical techniques for investigating unstable slopes (co-listed in GM & GI) – Posters

Convener: Wasowski, J.
 Co-Convener(s): Del Gaudio, V., Singhroy, V., Havenith, H.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: DEL GAUDIO, V.

XY0533; EGU2007-A-01531; NH3.04-1WE5P-0533
Ardalan, A.; Gharebaghi, A.
 A proposal for establishment and application of multi-sensor
 geodesy stations for geodynamics studies

XY0535; EGU2007-A-00206; NH3.04-1WE5P-0535
Fourniadis, I.G.
 Lithological mapping for landslide hazard assessment: an
 example from the Three Gorges, China, using ASTER
 imagery data

XY0536; EGU2007-A-01944; NH3.04-1WE5P-0536
 Danneels, G.; **Havenith, H.B.**; Pirard, E.
 Landslide detection from remote sensing images using
 statistical and ANN classification methods

XY0537; EGU2007-A-08369; NH3.04-1WE5P-0537
Wang, K.-L.; Lin, M.-L.; Dowman, I.
 The observation of landslide coupling uplift of earthquake
 with Interferometric Synthetic Aperture Radar ;V the case
 study of Chi-Chi earthquake and Ju-Fen-Err mountain area

XY0538; EGU2007-A-06358; NH3.04-1WE5P-0538
Shieh, C.L.; Chen, Y.S.; Tsai, Y.J.; Lai, J.C.; Lee, S.P.
 A Comparison of Landslides Caused by Rainfalls and
 Earthquakes

XY0539; EGU2007-A-07371; NH3.04-1WE5P-0539
 Lamanna, C.; Casarano, D.; **Wasowski, J.**
 Land use and landslide activity in the Rocchetta San Antonio
 area (Daunia region, Italy)

XY0540; EGU2007-A-08246; NH3.04-1WE5P-0540
Caracciolo, T.; La Pietra, T.; **Pellegrino, A.**
First outcomes from the challenge between conventional geomorphological techniques

XY0541; EGU2007-A-00247; NH3.04-1WE5P-0541
Komac, M; **Jemec, M**
Detection of mass movements in Alpine Slovenia using Permanent Scatter InSAR data

XY0542; EGU2007-A-07021; NH3.04-1WE5P-0542
Rosser, N.J.; Dunning, S.A.; Petley, D.N.
Multi-spectral terrestrial laser scanning for interpreting the controls on and changes to unstable rock faces

XY0543; EGU2007-A-09299; NH3.04-1WE5P-0543
Travelletti, J.; Demand, J; Marillier, F; Jaboyedoff, M
Landslide investigation in the Swiss Alps using the seismic refraction and reflection techniques together with a numeric method based on the sloping base-level concept

XY0544; EGU2007-A-02421; NH3.04-1WE5P-0544
Del Gaudio, V.; Venisti, N.; Pierri, P.; Wasowski, J.
Application of the Refraction Microtremor technique to investigate the characteristics of seismic response of landslide-prone hillslopes

XY0545; EGU2007-A-01176; NH3.04-1WE5P-0545
Wasowski, J.; Gallo, D.; Florio, N.G.; Dabbicco, G.
Geophysical surveying for mapping areas susceptible to landsliding: case study from Italy

XY0546; EGU2007-A-04497; NH3.04-1WE5P-0546
Lebourg, T.; Jomard, H.; Guglielmi, Y.; Tric, E.
Electrical imaging of the sliding geometry and fluids associated to a large rockslide

XY0547; EGU2007-A-08708; NH3.04-1WE5P-0547
Supper, R.; Römer, A.; Avian, M.; Kellerer-Pirklbauer, A.
Geoelectrical measurements for permafrost monitoring at the Hoher Sonnblick, Salzburg, Austria

NH3.05 Landslides, ground-failures and mass movements induced by earthquakes and volcanic activity (co-listed in GM)

Convener: Keefer, D.
Co-Convener(s): Wasowski, J., Del Gaudio, V., Jibson, R.
Lecture Room 18
Chairperson: WASOWSKI, J.

13:30–13:45; EGU2007-A-05938; NH3.05-1WE3O-001
Chigira, M.; Yagi, H.; Kausar, A.B.
Landslides induced by the 2005 northern Pakistan Earthquake and long-term gravitational slope deformation

13:45–14:00; EGU2007-A-06376; NH3.05-1WE3O-002
Dunning, S.A.; Mitchell, W.A.; Petley, D.N.; Rosser, N.J.; Cox, N.J.
Landslides predating and triggered by the 2005 Kashmir Earthquake: rockfall to rock avalanches

14:00–14:15; EGU2007-A-10388; NH3.05-1WE3O-003
Evans, S.G.; Roberts, N.J.; Ischuk, A.; Morozova, G.
Landslides triggered by the 1949 Khait Earthquake, Tien Shan, Tajikistan

14:15–14:30; EGU2007-A-04786; NH3.05-1WE3O-004
Chen, T. C.; Wang, H. Y.; Shu, C. Y.; Ming, W. S.; OuYang, S.; Lin, R. R.
Chi Chi Earthquake and Typhoons Influence Debris Flows - 106 Debris Flow Events in Taiwan

14:30–14:45; EGU2007-A-06369; NH3.05-1WE3O-005
Pavanelli, N.; Capaccioni, B.; Vaselli, O.; Sarocchi, D.; Floris, M.; Falorni, G.; Tassi, F.; Duarte, E.
Mass movement hazard at Irazu volcano (Costa Rica): the Rio Reventado debris avalanche case study

14:45–15:00; EGU2007-A-06014; NH3.05-1WE3O-006
Guemache, M.A.; Beldjoudi, H.; Semmane, F.; Kharroubi, A.; Amrani, A.; Djellit, H.; Yelles-Chaouche, A.K.
On earthquake-related landslides: the case of the March 20th, 2006 Kherrata earthquake (Mw=5.3) and the Laâlam landslide (Babor chain, Wilaya of Bejaia, North-East Algeria).

15:00 COFFEE BREAK

Chairperson: JIBSON, R.

15:30–15:45; EGU2007-A-01868; NH3.05-1WE4O-001
Del Gaudio, V.; Wasowski, J.
New observations on directivity phenomena in the dynamic response of slopes to seismic shaking

15:45–16:00; EGU2007-A-05525; NH3.05-1WE4O-002
Bourdeau, C.; Havenith, H.B.
Is the triggering of Kainama landslide (Kyrgyzstan, 2004) related to seismic shaking, groundwater flow or a combination of both ?

16:00–16:15; EGU2007-A-07075; NH3.05-1WE4O-003
Wang, K.-L.; Lin, M.-L.
The run-out and recession distances of granular slope based on shaking table model tests

16:15–16:30; EGU2007-A-02428; NH3.05-1WE4O-004
Keefer, D
Landslides caused by recent earthquakes

16:30–16:45; EGU2007-A-09538; NH3.05-1WE4O-005
Meunier, P.; Hovius, N.; Haines, J.
Rate and Pattern of earthquake-induced landslides and their relation to seismic shaking

16:45–17:00; EGU2007-A-05245; NH3.05-1WE4O-006
Gokceoglu, C.; Duman, T.Y.; Nefeslioglu, H.A.; Yildirim, C.; Can, T.; Emre, O.; Sonmez, H.
Evaluation of landslide proximity to faults: the Almacik tectonic block in the North Anatolian Fault Zone (Turkey)

17:00 END OF SESSION

NH3.05 Landslides, ground-failures and mass movements induced by earthquakes and volcanic activity (co-listed in GM) – Posters

Convener: Keefer, D.
Co-Convener(s): Wasowski, J., Del Gaudio, V., Jibson, R.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: DEL GAUDIO, V.

XY0548; EGU2007-A-08216; NH3.05-1WE5P-0548
Mitchell, W. A.; Petley, D. N.; Dunning, S. A.; Rosser, N. J.
Coseismic generated slope conditions related to the Mw 7.6 Kashmir earthquake of October 2005

XY0549; EGU2007-A-01809; NH3.05-1WE5P-0549
Jibson, R.
Landslides triggered by the 2002 Denali fault, Alaska, earthquake: What do they tell us about the strong shaking?

XY0550; EGU2007-A-09181; NH3.05-1WE5P-0550

Meunier, P.; Haines, J.; Hovius, N.

Patterns of landslide density in the Santa Susanna Mountains, California, in response to strong ground motion during the 1994 Northridge earthquake.

XY0551; EGU2007-A-06849; NH3.05-1WE5P-0551

Lee, C.T.; **Huang, C.M.**

Neuro-fuzzy-based landslide susceptibility analysis ;V an example from Central Western Taiwan

XY0552; EGU2007-A-06976; NH3.05-1WE5P-0552

Chan, Y.C.; Wu, C.Y.; Chang, K.J.; Hu, J.C.

Structural and geomorphic controls on the earthquake-triggered landslide in the Chiufenershan area during the Mw 7.6 Chi-Chi earthquake in Taiwan

XY0553; EGU2007-A-08863; NH3.05-1WE5P-0553

Chang, K.J.; **Chan, Y.C.;** Chen, R.F.; Tsao, S.J.

Surface features of paleo-landslides analyzed by LiDAR topographic data

XY0554; EGU2007-A-05568; NH3.05-1WE5P-0554

Marques, R.; **Zêzere, J.L.;** Queiroz, G.; Coutinho, R.

GIS-based logistic regression method for susceptibility assessment of earthquake-triggered landslides: A case study from Fogo Volcano (S. Miguel, Azores)

XY0555; EGU2007-A-10894; NH3.05-1WE5P-0555

Marques, F.

The seismically triggered deep-seated landslide of Praia do Telheiro (SW Portugal)

XY0556; EGU2007-A-07349; NH3.05-1WE5P-0556

Sassa, K.; Fukuoka, H.; Wang, G.; Wang, F.; Marui, H.; Soridum, R.; Furumura, T

The 2006 Leyte landslide, Philippines triggered by a small nearby earthquake after rainfall

XY0557; EGU2007-A-05125; NH3.05-1WE5P-0557

Jurko, J.; Sassa, K.; Fukuoka, H.

Study on mobility of earthquake induced landslides in silty soils by means of ring-shear apparatus

XY0558; EGU2007-A-00579; NH3.05-1WE5P-0558

Nepop, R.

Contribution of aftershock-induced landslides to erosion (by the example of Chuya earthquake (M=7.3) Gorny Altay, Russia)

XY0559; EGU2007-A-01803; NH3.05-1WE5P-0559

Ozcep, F.; Kaya, H.

Integrated Use of Soil Amplification and Earthquake Induced Slope Stability in the Microzonation Studies : Esenyurt (Istanbul) Example

XY0560; EGU2007-A-02999; NH3.05-1WE5P-0560

Hannich, D.; Hoetzel, H.; Ehret, D.; Huber, G.; Danchiv, A.; Bretotian, M.

Liquefaction probability in Bucharest and influencing factors

XY0561; EGU2007-A-02070; NH3.05-1WE5P-0561

Wu, W.

Dynamic Analysis of Municipal Solid Waste Landfills

XY0562; EGU2007-A-04864; NH3.05-1WE5P-0562

Maybodian, M.; **Zare, M.;** Memarian, H.

Seismic vulnerability of the sarcheshmeh open pit mine, SE Iran

NH3.06 Rainfall induced landslides and debris flows

Convener: Crosta, G.

Co-Convener(s): Cannon, S., Frattini, P.

Lecture Room 18

Chairperson: FRATTINI, P.

8:30–8:45; EGU2007-A-00416; NH3.06-1WE1O-001

Tunusluoglu, A.C.; Gokceoglu, C.

A catastrophic debris flow induced by heavy precipitation: June 13, 1995 Senirkent disaster

8:45–9:00; EGU2007-A-03286; NH3.06-1WE1O-002

Casagli, N.; Nocentini, M.; Falorni, G.; Farina, P.; Lombardi, L.; Righini, G.; Tofani, V.; Vannocci, P.

Geotechnical investigation and dynamic modelling of the 30 April 2006 debris flows on Ischia Island

9:00–9:15; EGU2007-A-06092; NH3.06-1WE1O-003

Scotto di Santolo, A.; de Luca Tupputi Schinosa, F.;

Ruopolo, S.; Calcaterra, D.; Evangelista, A.; Guarino, P.M.

Shallow landslide susceptibility in the Astroni volcano (Pozzuoli - Naples, Italy)

9:15–9:30; EGU2007-A-03409; NH3.06-1WE1O-004

Lindenmaier, F.; Zehe, E.; Wienhöfer, J.; Ihringer, J.

Hydrological patterns and processes of a deep seated creeping slope at Ebnet, Vorarlberg

9:30–9:45; EGU2007-A-08804; NH3.06-1WE1O-005

McArdell, B.W.; Badoux, A.

Influence of rainfall on the initiation of debris flows at the Illgraben catchment, canton of Valais, Switzerland

9:45–10:00; EGU2007-A-07397; NH3.06-1WE1O-006

Chae, B.-G.; Cho, Y.C.; Song, Y.-S.; Choi, S.I.

Development of technologies for prediction, risk assessment and countermeasures of landslides in Korea

10:00 COFFEE BREAK

Chairperson: CROSTA, G.B.

10:30–10:45; EGU2007-A-02730; NH3.06-1WE2O-001

Gregoret, C.; Dalla Fontana, G.

Different regimes of critical rainfalls for debris flows initiations by channel-bed failure of the Dolomites

10:45–11:00; EGU2007-A-05929; NH3.06-1WE2O-002

Lin, S. C.; Yu, F. C.; Lin, L. Y.

, Lee-Yaw Lin

11:00–11:15; EGU2007-A-01708; NH3.06-1WE2O-003

Ling, H.; Wu, M-H

Modeling of Rainfall Induced Slope Failure Using Geocentrifuge

11:15–11:30; EGU2007-A-10817; NH3.06-1WE2O-004

Simoni, S.; Rigon, R.

Catchment scale geomorphological control on stress induced slope instability

11:30–11:45; EGU2007-A-07100; NH3.06-1WE2O-005

Mercurio, G.; Berardi, R.

Shallow landslides triggered by rainfall: numerical analyses on Richards' equation based models

11:45–12:00; EGU2007-A-02705; NH3.06-1WE2O-006

Lehmann, P.; Or, D.

Self-organized criticality concepts for modeling hydromechanical triggering of rapid landslides

12:00 END OF SESSION

NH3.06 Rainfall induced landslides and debris flows – Posters

Convener: Crosta, G.

Co-Convener(s): Cannon, S., Frattini, P.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: CANNON, S.

XY0563; EGU2007-A-01751; NH3.06-1WE5P-0563

Yalcin, A.

Rainfall-landslide relationship for East Black Sea region (Turkey)

XY0564; EGU2007-A-02191; NH3.06-1WE5P-0564

Peruccacci, S.; Rossi, M.; Guzzetti, F.; Stark, C.P.

The rainfall intensity-duration control of shallow landslides and debris flows: an update

XY0565; EGU2007-A-03172; NH3.06-1WE5P-0565

Lin, C.W.; Lee, S.Y.; Huang, M.L.; Yi, T.C.; Tseng, C.M.

The determination of empirical rainfall thresholds to trigger debris flows in Northern Taiwan

XY0566; EGU2007-A-04361; NH3.06-1WE5P-0566

Frattini, P.; Crosta, G.B.; Sosio, R.

Statistical and physically-based approaches for probabilistic rainfall thresholds of shallow landslide

XY0567; EGU2007-A-03766; NH3.06-1WE5P-0567

Melchiorre, C.; Frattini, P.; Stalsberg, K.; Crosta, G.; Blirka, L.H.; Hoydal, O.

Scenario modelling of present and future shallow landslide probability

XY0568; EGU2007-A-08114; NH3.06-1WE5P-0568

Leoni, E.; Martina, M.L.V.; Berti, M.; Todini, E.

Integrating the hydrological dynamic information in a “timeless” landslide susceptibility map

XY0569; EGU2007-A-02034; NH3.06-1WE5P-0569

Andres, P.; Hagen, K.; Lang, E.; Stary, U.

Analysis of landslide events in two Austrian communities (Gasen and Haslau) in the year 2005

XY0570; EGU2007-A-03009; NH3.06-1WE5P-0570

Bardou, E.; Ravot, E.; Metzger, R.; Spinello, I.; Rielle, N.; Jaboyedoff, M.

Coupling between hillslope processes and river system. Case study of “La Tinière”, southwestren Switzerland

XY0571; EGU2007-A-03338; NH3.06-1WE5P-0571

Ambrosi, C.; Thüring, M.; Lüscher, M.

Triggering and run-out of superficial landslides caused by heavy rainfall: coupled modeling at the catchment level

XY0572; EGU2007-A-04063; NH3.06-1WE5P-0572

Wu, Y-P.; Yin, K-L.; Török, Á.

GIS-based landslide hazard predicting system and its real-time test during a typhoon, Zhejiang Province, Southeast China

XY0573; EGU2007-A-03550; NH3.06-1WE5P-0573

Tunusluoglu, M.C.; Sarp, G.; Duzgun, H.S.B.; **Gokceoglu, C.**

Debris Flow Risk Mapping Based on Geographic Information Technologies: a case from SW Turkey

XY0574; EGU2007-A-05933; NH3.06-1WE5P-0574

Chigira, M.

Weathering profiles and related structures as basic causes of rain-induced shallow landslide – for the regional hazard assessment –

XY0575; EGU2007-A-06133; NH3.06-1WE5P-0575

Choi, S. I.; Choi, Y. K.

Case Study on Debris flows in Korea

XY0576; EGU2007-A-06398; NH3.06-1WE5P-0576

Paro, L.; Tiranti, D.

An exhaustive approach for the alpine torrents processes estimation: the case study of Rio Frejus (Italian Western Alps)

XY0577; EGU2007-A-09089; NH3.06-1WE5P-0577

Nolte, E.

GIS-based hazard analysis of torrents and debris flows in Walgau (Vorarlberg/Austria)

XY0578; EGU2007-A-06149; NH3.06-1WE5P-0578

SIMEONE, V.; **MANCARELLA, D.**

Analysis of capillary barrier effects in the activation of debris avalanches in pyroclastic cover

NH3.07 Mechanics of Mass Flows (co-listed in GM) – Posters

Convener: McArdell, B.

Co-Convener(s): Arattano, M., Ancey, C.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: MCARDELL, B

XY0579; EGU2007-A-03133; NH3.07-1WE5P-0579

Davies, T R H.; McSaveney, M J

Dynamic rock fragmentation in grain flow: application to large mass movements

XY0580; EGU2007-A-03299; NH3.07-1WE5P-0580

Mourgues, R.M.

High pore fluid pressure effects on granular material behaviour and granular slope instability triggering

XY0581; EGU2007-A-05831; NH3.07-1WE5P-0581

Miyamoto, K.; **Itoh, T.**

Treatments of static friction force in numerical simulation for mass movements

XY0582; EGU2007-A-05870; NH3.07-1WE5P-0582

Hotta, N.; Miyamoto, K

Phase transition in debris flows over a rigid bed

XY0583; EGU2007-A-06159; NH3.07-1WE5P-0583

SIMEONE, V.

Recovery of strength along shear surface in clay soils

XY0584; EGU2007-A-06571; NH3.07-1WE5P-0584

Thielemann, A.; Daut, G.; Mäusbacher, R.

Sedimentological and chronological investigations of debris flow events and the associated sediment dynamic of the alpine lake Pragser Wildsee (Lago di Braies).

XY0585; EGU2007-A-07770; NH3.07-1WE5P-0585

Taberlet, N.; Richard, P.; Delannay, R.

Density inversion in rapid granular flows: the supported regime

XY0586; EGU2007-A-08614; NH3.07-1WE5P-0586

Schneider, D.; Huggel, C.; McArdell, B.; Bartelt, P.; Haeblerli, W.

The influence of ice on the mobility of rapid rock-ice mass movements: a concept for systematic research

XY0587; EGU2007-A-08738; NH3.07-1WE5P-0587

Kowalski, JK.; Bartelt, PB; **Jim McElwaine, JM**

Twophase debris flows modeling

XY0588; EGU2007-A-09018; NH3.07-1WE5P-0588

Sosio, R.; Crosta, G.B.

Rheological characterization of large particle fluids

XY0589; EGU2007-A-04319; NH3.07-1WE5P-0589
Uttini, A.; **Apuani, T.**; Masetti, M.
The Sciara del Fuoco debris stability (Stromboli volcano, Italy): a distinct element numerical modelling of possible triggering mechanisms.

XY0590; EGU2007-A-02115; NH3.07-1WE5P-0590
Chou, H.; Chang, Y
Mobilization Process of Landslide-Induced Debris Flows

NH3.08 Rock falls: Analysis, Simulation and Protection – Posters

Convener: Dorren, L.
Co-Convener(s): Volkwein, A., Berger, F.
Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Halls X/Y
Chairperson: DORREN, L.

XY0591; EGU2007-A-00115; NH3.08-1WE5P-0591
Berthet-Rambaud, PBR; Guillemain, PG
Protection of a French Highway against rockfalls in volcanic and tropical conditions

XY0592; EGU2007-A-00423; NH3.08-1WE5P-0592
Ghazipour, N.; Orumiey, A.; Entezam Soltani, I.; Pirouz, M.
The hazard zonation of rockfall along Chalus road in north of Iran

XY0593; EGU2007-A-06013; NH3.08-1WE5P-0593
GRASSI, D.; GRIMALDI, S.; **SIMEONE, V.**
Stability problems in apulian rupestrine settlements

XY0594; EGU2007-A-06355; NH3.08-1WE5P-0594
de Luca Tupputi Schinosa, F.; Cavallaro, M.; Calcaterra, D.
Rockfall susceptibility assessment at Naples, Italy, through inter-comparison of different models

XY0595; EGU2007-A-06437; NH3.08-1WE5P-0595
Crosta, G.B.; Frattini, P.; Agliardi, F.; Andreolli, M.; Blikra, L.H.
Modelling rockfall hazard in the Storfjorden area, western Norway

XY0596; EGU2007-A-06543; NH3.08-1WE5P-0596
Berger, F.; Dorren, L.
Objective comparison of rockfall models using data from real size experiments

XY0597; EGU2007-A-06723; NH3.08-1WE5P-0597
Bigot, C.; Dorren, L.; Berger, F.
Quantifying the protective function of a forest against rockfall for past, present and future scenarios using two modelling approaches

XY0598; EGU2007-A-06924; NH3.08-1WE5P-0598
Moelk, M.; Stelzer, G.; Kohlmaier, G.
Product certification of rock fall protection fences in the European Union (CE-Marking) - Test Procedure, Austrian Test Site and Relevance for the End User

XY0599; EGU2007-A-07087; NH3.08-1WE5P-0599
Thuring, M.
RockSim3D – a three dimensional rockfall simulation program

XY0600; EGU2007-A-07141; NH3.08-1WE5P-0600
Gerber, W.; **Volkwein, A.**
Different flexible Rockfall Barriers – comparative Results from Type Testing

XY0601; EGU2007-A-07375; NH3.08-1WE5P-0601
Lambert, S.; Bertrand, D.; Nicot, F.; Gotteland, P.
Development of an innovative type of rock fall protection structure made of an assembly of geo-cells

XY0602; EGU2007-A-07704; NH3.08-1WE5P-0602
Volkwein, A.; Jonsson, M.
Quantification of Rockfall Mitigation by Forests using Simulations

XY0603; EGU2007-A-08543; NH3.08-1WE5P-0603
Dorren, L.; Berger, F.; Volkwein, A.
Challenges in rockfall trajectory research

XY0604; EGU2007-A-09360; NH3.08-1WE5P-0604
Bianchi Fasani, G.; Esposito, C.; Scarascia Mugnozza, G.
Report and preliminary interpretations about the 22nd August 2006 anomalous rock fall along the Gran Sasso NE wall (central Apennines, Italy)

NH4.01 Seismic hazard evaluation, precursory phenomena and reliability of prediction

Convener: Contadakis, M.
Co-Convener(s): Zschau, J., Biagi, P.
Lecture Room 16 (L)
Chairperson: CONTADAKIS, M.

8:30–8:45; EGU2007-A-00851; NH4.01-1WE1O-001
Daskalaki, E.; Orfanogiannaki, K.; Papadopoulos, G.A.
Foreshocks and the Prediction of Strong Earthquakes

8:45–9:00; EGU2007-A-11004; NH4.01-1WE1O-002
Dalati, M.
Applications of Remote Sensing to detecting Active and Fresh Faulting Zones

9:00–9:15; EGU2007-A-01578; NH4.01-1WE1O-003
Abdullah, M.; Jusoh, M. H.; Zain, A.F.M.; Abdullah, S.; Rhazali, Z. A.; Homam, M. J.
Ionospheric total electron content variability due to the North Sumatra Earthquake of 26 December 2004

9:15–9:30; EGU2007-A-01696; NH4.01-1WE1O-004
Zain, A.F.M.; Bong, E. H.; Abdullah, S.; Abdullah, M.; Homam, M. J.; Ho, Y. H.
Some effects of earthquakes at North Sumatra to the total electron content in the Ionosphere

9:30–9:45; EGU2007-A-11108; NH4.01-1WE1O-005
Xenos, ThD; Dimakis, E
Seismic Signatures observed on the Ionospheric F2 layer.

9:45–10:00; EGU2007-A-11225; NH4.01-1WE1O-006
Tang, A.P.
New trends of seismic disaster management in China

10:00 COFFEE BREAK

Chairperson: ZSCHAU, J.

10:30–10:45; EGU2007-A-03605; NH4.01-1WE2O-001
Gregori, G.P.; Lupieri, M.; Paparo, G.; **Poscolieri, M.**; Ventrice, G.; Zanini, A.
Fatigue, ageing, and catastrophe of solid structures

10:45–11:00; EGU2007-A-03662; NH4.01-1WE2O-002
Ping, Zhu; van Ruymbeke, M.
Solid earth-tide influence on the earthquakes triggering and on wave velocity variations

11:00–11:15; EGU2007-A-05226; NH4.01-1WE2O-003
Seleznev, V.; Alekseev, A.; Emanov, A.; Soloviev, V.; Glinsky, B.; **Kovalevsky, V.**; Yushin, V.
Experimental results of active monitoring and Earth's crust structure research in Siberia

11:15–11:30; EGU2007-A-05447; NH4.01-1WE2O-004
Mavrodiev, S.; Pekevski, L.
 On the complex regional earthquake precursors research and prediction network

11:30–11:45; EGU2007-A-07089; NH4.01-1WE2O-005
Rogozhin, E.A.; Zaharova, A.I.
 Precursors of major earthquakes place and magnitude on the active continental margins

11:45–12:00; EGU2007-A-10193; NH4.01-1WE2O-006
Stefansson, R
 Significant advances in earthquake prediction based on the earthquakes year 2000 in Iceland.

12:00 END OF SESSION

NH4.01 Seismic hazard evaluation, precursory phenomena and reliability of prediction – Posters

Convener: Contadakis, M.
 Co-Convener(s): Zschau, J., Biagi, P.
 Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Halls X/Y
 Chairperson: BIAGI, P.F.

XY0605; EGU2007-A-01084; NH4.01-1WE5P-0605
Castellana, L.; Maggipinto, T.; Biagi, P.F.
 K-Nearest-Neighbour classifiers predict seismic precursors by hydrogeochemical data

XY0606; EGU2007-A-01579; NH4.01-1WE5P-0606
Abdullah, M.; Mat, D.A.A.; Zain, A.F.M.; Abdullah, S.; Homam, M. J.
 Reliability of ionospheric models with the occurrence on TIDs over equatorial region

XY0607; EGU2007-A-02123; NH4.01-1WE5P-0607
Bobrovskiy, V.
 Is it possible generation of Kuril-Kamchatka earthquake in 2007-08 yrs, whose seismic focus is being formed between northern Kamchatka and Simushir Island?

XY0608; EGU2007-A-02300; NH4.01-1WE5P-0608
Mullayarov, V.; Karimov, R.; Kozlov, V.
 Amplitude variations of the VLF thunderstorm signals passing above the epicenters of strong earthquakes

XY0609; EGU2007-A-02678; NH4.01-1WE5P-0609
Contadakis, M.E.; Arabelos, D.N.; Asteriadis, G.; Spatalas, S.D.; Pikridas, Ch.
 TEC variations over the Mediterranean during the seismic activity of 20th October, in the area of eastern Aegean

XY0610; EGU2007-A-03149; NH4.01-1WE5P-0610
Chen, K.J.; Wang, J.S.; Wu, Y.M.; Lin, C.H.
 Estimation on peak ground acceleration by Q-structures

XY0611; EGU2007-A-03153; NH4.01-1WE5P-0611
Fujimaki, H.; Nakakura, T.; Shimizu, H.; Ohtsuki, K.
 Temporal changes of chemical compositions of waters from deep borehole and its relation to seismic activities

XY0612; EGU2007-A-04025; NH4.01-1WE5P-0612
Stejskal, V.; Broz, M.; Kasperek, L.; Kopylova, G. N.; Lyubushin, A. A.; Skalsky, I.
 Analysis of the groundwater level changes preceding the weak intraplate earthquakes in the Bohemian Massif (Central Europe) in 2005

XY0613; EGU2007-A-05526; NH4.01-1WE5P-0613
Tumalski, T.
 Earthquake prediction; Principles (Part I)

XY0614; EGU2007-A-06309; NH4.01-1WE5P-0614
Pantea, A.; Constantin, A
 The uncertainties in the final results on macroseismic intensities for October 27, 2004 earthquake (M=6) from Vrancea seismogenic zone (Romania).

XY0615; EGU2007-A-06344; NH4.01-1WE5P-0615
Pantea, A.; Constantin, A
 The macroseismic map of March 4, 1977 major Vrancea earthquake obtained after the revaluation of the macroseismic effects.

XY0616; EGU2007-A-07537; NH4.01-1WE5P-0616
Sigaeva, E.; Nechaev, O.; Panasyuk, M.; Kuzmin, Yu.
 Thermal neutrons' flux response to the earthquakes depending on the epicenter's direction

XY0617; EGU2007-A-09693; NH4.01-1WE5P-0617
Vallianatos, F.; Hloupis, G.; Moisi, M.; Papadopoulos, I.; Makris, J.
 Site Effect Studies using the 8th of January 2006 Kythira Earthquake Data Recorded in Crete (Southern Greece).

XY0618; EGU2007-A-09728; NH4.01-1WE5P-0618
Vallianatos, F.; Hloupis, G.; Stonham, J.
 Wavelet Based processing of Microtremors Signals

XY0619; EGU2007-A-09796; NH4.01-1WE5P-0619
Vallianatos, F.; Hloupis, G.; Stonham, J.
 Rapid Wavelet Estimation of Earthquake Magnitude for Seismic Early Warning

XY0620; EGU2007-A-10691; NH4.01-1WE5P-0620
Vallianatos, F.
 Aspects of seismic risk assessment in the frame of a non-extensive approach

XY0621; EGU2007-A-10635; NH4.01-1WE5P-0621
Zoran, M.; Mateciuc, D
 Seismic hazard assessment of Vrancea area by GPS, satellite and in-situ monitoring data

XY0622; EGU2007-A-02156; NH4.01-1WE5P-0622
Cadicheanu, N.; Van Ruymbeke, M.
 Research of tidal periodicities in the seismic hazards of the Vrancea zone (Romania)

XY0623; EGU2007-A-10029; NH4.01-1WE5P-0623
van Zwieten, G.J.; Gutierrez, M.A.; Hanssen, R.F.
 Quantitative fault discontinuity modeling using the Partition of Unity Method

XY0624; EGU2007-A-03590; NH4.01-1WE5P-0624
Orhan, A.
 The evaluation of seismic risk analysis in Eskişehir (Turkey) on the basis of Gutenberg-Richter and Gumbel Methods

XY0625; EGU2007-A-00102; NH4.01-1WE5P-0625
Das, N. K.; Chaudhuri, H.; Bhandari, R.K.; Ghose, D.; Sen, P.; Sinha, B.
 Implications of geochemical precursory Signals vis a vis Earthquakes

NH8.04/BG1.04 Spatial and temporal patterns of wild-fires: models, theory, and reality (co-organized by BG & NH) – Posters

Convener: McKenzie, D.
 Co-Convener(s): Malamud, B., Ricotta, C.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 10:30–12:00
 Poster Area Halls X/Y
 Chairperson: MCKENZIE, D. & MALAMUD, B.D.

XY0626; EGU2007-A-01337; NH8.04/BG1.04-1WE2P-0626
Romero-Calcerrada, R; Millington, J.D.A
 Spatial analysis of patterns and causes of fire ignition probabilities using Logistic Regression and Weights-of-Evidence based GIS modelling

XY0627; EGU2007-A-07346; NH8.04/BG1.04-1WE2P-0627
Weibel, P.; Reineking, B.; Conedera, M.; Bugmann, H.
 Comparison of the Performance of different Drought and Fire Indices in Southern Switzerland

XY0628; EGU2007-A-08700; NH8.04/BG1.04-1WE2P-0628
Crevoisier, C.; Shevliakova, E.; Gloor, M.; Wirth, C.
 Climate and human drivers of fires in the boreal forests: Data constrained design of a fire prognostic model

XY0629; EGU2007-A-09327; NH8.04/BG1.04-1WE2P-0629
Russo, A.; Durao, R.; Soares, A.
 DSR spatial – temporal modelling using ANN's and geostastical methodologies.

XY0630; EGU2007-A-11424; NH8.04/BG1.04-1WE2P-0630
McKenzie, D.; O'Neill, S.; Larkin, N.; Norheim, R.
 Stochastic modeling of fire at daily time steps from mesoscale meteorology

XY0631; EGU2007-A-03189; NH8.04/BG1.04-1WE2P-0631
Telesca, L.; Lasaponara, R.; Lanorte, A.
 Time dynamical characterization of fire sequences

XY0632; EGU2007-A-11426; NH8.04/BG1.04-1WE2P-0632
Kellogg, L.-K.; McKenzie, D.
 Geospatial modeling of fire-size distributions in historical low-severity fire regimes

XY0633; EGU2007-A-11434; NH8.04/BG1.04-1WE2P-0633
Gurgel Veras, C.; Alvarado, E.; Andrade de Carvalho, J.; **McKenzie, D.**
 Smoldering combustion of biomass in wildfires – modeling and experimental results

XY0634; EGU2007-A-11551; NH8.04/BG1.04-1WE2P-0634
Wooster, M.J.; Roberts, G.; Oertel, D.; Lorenz, E.; Zhukov, B.
 Biomass burning emissions estimation using the fire radiative power approach – the case for multi-spatial resolution measurements

XY0635; EGU2007-A-01291; NH8.04/BG1.04-1WE2P-0635
Tonini, M.; Tuia, D.; Ratle, F.
 Spatio-temporal cluster detection of forest fires from MODIS active fire product

XY0636; EGU2007-A-01306; NH8.04/BG1.04-1WE2P-0636
Tuia, D.; Algisi, G.; Telesca, L.; Lasaponara, R.; Kanevski, M.
 Comparison of measures of spatial clustering. The case of forest fires.

XY0637; EGU2007-A-02447; NH8.04/BG1.04-1WE2P-0637
Le Page, Y.; Pereira, J.M.C; Trigo, R.; da Camara, C.
 Global view of the main patterns of fire activity variability from 1996 to 2006 using screened ESA World Fire Atlas data

XY0638; EGU2007-A-04657; NH8.04/BG1.04-1WE2P-0638
Wotton, M.; Caspersen, J; Martell, D; Flannigan, M
 Fire size distribution and level of protection for the Canadian boreal forest (cancelled)

XY0639; EGU2007-A-06506; NH8.04/BG1.04-1WE2P-0639
Tramutoli, V.; Filizzola, C.; Marchese, F.; Mazzeo, G.; Pergola, N.
 Robust satellite techniques (RST) for forest fire detection

XY0640; EGU2007-A-07207; NH8.04/BG1.04-1WE2P-0640
Görge, K.; Lynch, A. H.
 Analysis of Terra/MODIS-derived fire-scar and vegetation-re-growth properties for northern Australian savannas

XY0641; EGU2007-A-09830; NH8.04/BG1.04-1WE2P-0641
Pereira, M. P.; Trigo, R. M.; Malamud, B. D.; Pereira, J. M.; DaCamara, C. C.; Calado, M. T.
 A Continental Portugal Wildfire Database

XY0642; EGU2007-A-08068; NH8.04/BG1.04-1WE2P-0642
ROMAN-CUESTA, RM; CARMONA-MORENO, C; RE-JALAGA, L; MALHI, Y; SILMAN, M
 Fire evolution in the eastern Andean slopes since 1982

XY0643; EGU2007-A-08174; NH8.04/BG1.04-1WE2P-0643
Brown, K.; Ohlson, M.; Bradshaw, R.; Birks, J.
 Spatio-temporal variability in the late-Holocene fire regime of Scandinavia

NH9.06 Natural Hazards' Impact on Urban Areas and Infrastructure (co-listed in SM)

Convener: Bostenaru, M.
 Co-Convener(s): Kreibich, H., Goretti, A.
 Lecture Room 16 (L)
 Chairperson: BOSTENARU, M.

13:30–14:00; EGU2007-A-06587; NH9.06-1WE3O-001
Wenzel, F.; Bendimerad, F.; Zschau, J.; Fernandez, J.
 Disaster impact on megacities - tools and strategies for risk mitigation (solicited)

14:00–14:15; EGU2007-A-04494; NH9.06-1WE3O-002
Lantada, N.; Pujades, L.G.; **Barbat, A.H.**
 Advanced methods for the construction of seismic risk scenarios. Application to Barcelona city, Spain

14:15–14:30; EGU2007-A-04788; NH9.06-1WE3O-003
Goretti, A.; Palmieri, F.; Adamo, F.; Berlingeri, M.; Palmieri, L.
 The urban system of Crotone, Italy, facing the earthquake impact

14:30–14:45; EGU2007-A-02318; NH9.06-1WE3O-004
Armas, I.; Damian, R.; Dumitrascu, S.; Anghel, M
 Seismic Risk Assessment: The Historical Center of Bucharest / ROMANIA

14:45–15:00; EGU2007-A-10976; NH9.06-1WE3O-005
Onur, T.; **Baca, A.;** Morrow, G.; Dong, W.; Boissonnade, A.; Williams, C.; Nyst, M.; Seneviratna, P.
 Beyond direct losses in large earthquakes

15:00 COFFEE BREAK

Chairperson: KREIBICH, H.

15:30–15:45; EGU2007-A-01993; NH9.06-1WE4O-001
D'Odorico, P.; Carmona-Moreno, C.; Simonetti, D.
 Improved Medium Resolution Urban Mapping for Natural
 Catastrophe Studies at Regional Level

15:45–16:00; EGU2007-A-06279; NH9.06-1WE4O-002
Galderisi, A.; Ceudech, A.
 A conceptual model for analysing the “behavior” of urban
 systems coping with natural hazard

16:00–16:15; EGU2007-A-04905; NH9.06-1WE4O-003
Laghi, M.; Polo, P.; Cavalletti, A.; Gonella, M.
 G.I.S. applications for evaluation and management of
 evacuation plans in Tsunami risk areas

16:15–16:30; EGU2007-A-11265; NH9.06-1WE4O-004
Motamedvaziri, B.; Aghaii, M.
 Investigating empirical equations of determining concentra-
 tion time of flood in Karaj river basin

16:30–16:45; EGU2007-A-10378; NH9.06-1WE4O-005
Egorov, Y.
 Natural hazards and urban infrastructure in coastal cities:
 Conceptual model

16:45–17:00; EGU2007-A-01404; NH9.06-1WE4O-006
Wang, J.J.; Ling, H.I.
 The Predictive Model for Typhoon-Triggered Debris Flow
 Disasters

17:00 COFFEE BREAK

Chairperson: GORETTI, A.

17:30–17:45; EGU2007-A-04916; NH9.06-1WE5O-001
Beck, E.; Granet, M.; Weber, C.
 Multi-risks study in the urban area of Mulhouse (East of
 France)

17:45–18:00; EGU2007-A-10964; NH9.06-1WE5O-002
Mercuri, C.
 The organization, form and functions of urban systems in
 seismic risk evaluation.

18:00–18:15; EGU2007-A-00064; NH9.06-1WE5O-003
Russo, F.; Vitetta, A.
 risk assessment and management in transportation systems:
 a methodology for evacuation design

18:15–18:30; EGU2007-A-05371; NH9.06-1WE5O-004
Kamai, T.
 Earthquake risk assessment of artificial fill slope in urban
 residential region

18:30–18:45; EGU2007-A-01052; NH9.06-1WE5O-005
Bostenaru Dan, M.; Pinho, R.
 Impact of seismic retrofit on interwar RC housing

18:45–19:00; EGU2007-A-11416; NH9.06-1WE5O-006
Bostenaru Dan, M.; Kreibich, H.; Goretti, A.
 Discussion

19:00 END OF SESSION

NH9.06 Natural Hazards' Impact on Urban Areas and Infrastructure (co-listed in SM) – Posters

Convener: Bostenaru, M.

Co-Convener(s): Kreibich, H., Goretti, A.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: SEIFERT, I.

XY0644; EGU2007-A-07333; NH9.06-1WE2P-0644
URRU, G.; CAMPOLUNGH, M.P.; FUNICIELLO, R.
 Geological Hazards in urban area: the case of Rome (Italy)

XY0645; EGU2007-A-07950; NH9.06-1WE2P-0645
**Hoffmann-Rothe, A.; Ranke, U.; Rehmann, T.; Stein-
 bach, V.; Weiland, L.**
 Implementing geological information on natural hazards in
 urban planning: experiences gathered in Indonesia

XY0646; EGU2007-A-02901; NH9.06-1WE2P-0646
Senitz, S.
 The Research Training Group “Natural Disasters” (DFG-
 GRK 450/3)

XY0647; EGU2007-A-06954; NH9.06-1WE2P-0647
Jamileh Vashghani Farahani, j.v.f
 Deterministic Seismic Hazard Assessment of Center-East
 IRAN (57 - 60o E , 33 - 35o N)

XY0648; EGU2007-A-00496; NH9.06-1WE2P-0648
Moldovan, I.A.; Popescu, E.; Placinta, A.; Moldoveanu, T.
 Dam's rating in seismic risk classess in the North-Eastern
 part of Romania

XY0649; EGU2007-A-02272; NH9.06-1WE2P-0649
Balan, SF; Cioflan, CO; Apostol, B; Tataru, D; Ritter, JRR
 Urban Seismology Research in the Metropolitan Area of
 Bucharest

XY0650; EGU2007-A-02010; NH9.06-1WE2P-0650
Armas, I.; Avram, E.
 The human dimension of seismic vulnerability. Case study:
 Bucharest Municipality

XY0651; EGU2007-A-11264; NH9.06-1WE2P-0651
Pinho, R.; Crowley, H.
 DBELA: A New Methodology for Earthquake Loss Assess-
 ment

XY0652; EGU2007-A-06834; NH9.06-1WE2P-0652
Zschau, J.; Gasparini, P.; Papadopoulos, G.; Fleming, K.;
Filangieri, A.R.; The SAFER Partners
 SAFER - Seismic eArly warning For EuRope - An earth-
 quake early warning and response research program

XY0653; EGU2007-A-06302; NH9.06-1WE2P-0653
Pérez-Ruiz, J. A.; Posadas, A.; Lantada, N.; Pujades, L.G.
 A advanced method of damage scenarios generation for
 seismic risk assessment in urban zones. Application to
 Motril city (Spain).

XY0654; EGU2007-A-01801; NH9.06-1WE2P-0654
Ozcep, F.; Korkmaz, B.; Karabulut, S.; Zarif, H.
 Integrated Use of Geophysical And Geotechnical Data In
 Urban Environments for Microzonation Studies : Sisli
 (Istanbul) Example

XY0655; EGU2007-A-08000; NH9.06-1WE2P-0655
Schweier, C.; Markus, M.
 Operation Support and Training by Expert and Information
 Systems for technical SAR Measures and Buildings' State
 Evaluation

XY0656; EGU2007-A-09479; NH9.06-1WE2P-0656
Bourlotos, G.; Bostenaru Dan, M.
 Extension of a Rapid Visual Screening to a survey system
 including quantitative information for vulnerability studies

XY0657; EGU2007-A-01135; NH9.06-1WE2P-0657
Bostenaru Dan, M.
 Meet the author: Economic efficiency and applicability of
 building strengthening measures for seismic retrofit (case of
 Bucharest, Romania)

XY0658; EGU2007-A-05657; NH9.06-1WE2P-0658
Kreibich, H.; Thieken, A.H.
 Development of an indicator for flood affected infrastructure

XY0659; EGU2007-A-11268; NH9.06-1WE2P-0659
Appuhamy, J.M.R
Numerical modeling of tsunami in Indian Ocean

XY0660; EGU2007-A-02888; NH9.06-1WE2P-0660
Senitz, S.; Hesse, G.; Büchel, G.
A field data based flow model for estimating the
“Emergency-groundwater-supply” potential of a maar
volcanoe - A study from the Gees Maar (West Eifel volcanic
field, Germany)

XY0661; EGU2007-A-11269; NH9.06-1WE2P-0661
Fathi, E.
The structure Geological and water shortage from Jifara
plain Basin west of Libya

XY0662; EGU2007-A-00535; NH9.06-1WE2P-0662
Nazarenko, O.; Nazarenko, V
Contemporary condition of geodynamic situation in Rostov-
on-Don

XY0663; EGU2007-A-07998; NH9.06-1WE2P-0663
Petley, D.N.
On the impact of urban landslides

XY0664; EGU2007-A-08528; NH9.06-1WE2P-0664
Bacher, M.; Rachoy, Ch.
Risk analysis for a railway station in the Gastein valley,
Austria

XY0665; EGU2007-A-11415; NH9.06-1WE2P-0665
Hajpál, M.; **Török, Á.**
Fire related performance of Hungarian stones, changes in
strength and other physical properties

XY0666; EGU2007-A-09429; NH9.06-1WE2P-0666
Russo, F.; Vitetta, A.; Rindone, C.; Marcianò, F. A.
a model for estimating road accident probability involving
dangerous goods

XY0667; EGU2007-A-01389; NH9.06-1WE2P-0667
Golitsyn, G.; Vasin, V.; **Granberg, I.**; Ginzburg, A.; Efi-
menko, N.; Chalya, E.; Povolotskaya, N.; Kortunova, Z.;
Senik, I.; Rubinstein, K.
Studies of relation between basic socially significant de-
seases and ecological and meteorological factors for a
number of industrial and recreation regions of Russia

XY0668; EGU2007-A-04923; NH9.06-1WE2P-0668
Grigoropoulos, K.N.; Social Security Institute
Seasonal spacial distribution of pm1 and health impacts in
the greater Athens area

XY0669; EGU2007-A-04937; NH9.06-1WE2P-0669
Grigoropoulos, K.N.; Nastos, P.T.; Feredinos, G.; Ste-
fanopoulos, G.; Gerasopoulos, E.
Concurrent measurements of PM and Radon daughters
during an episode of dust transport from N. Africa

Nonlinear Processes in Geosciences

NP3.06 Dynamics of Seismicity Patterns and Earthquake Triggering (co-listed in SM)

Convener: Hainzl, S.
Co-Convener(s): Zoeller, G., Main, I.
Lecture Room 27
Chairperson: HAINZL, S.

8:30–9:00; EGU2007-A-04272; NP3.06-1WE1O-001
Marzocchi, W.; Selva, J.; Cinti, F. R.; Montone, P.; Pierdo-
minici, S.; Schivardi, R.
On the “recurrence” of large earthquakes: some insights
from a model based on a realistic interacting fault system
(solicited)

9:00–9:15; EGU2007-A-09076; NP3.06-1WE1O-002
Hetherington, A.; Steacy, S.; McCloskey, J
Investigating earthquake patterns and the effects of fault
interaction using a cellular automata based model

9:15–9:30; EGU2007-A-05522; NP3.06-1WE1O-003
Carbunar, O.; **Radulian, M.**
Numerical simulation method applied for Vrancea (Roma-
nia) intermediate-depth earthquakes

9:30–9:45; EGU2007-A-11536; NP3.06-1WE1O-004
Lorenzo-Martín, F.; Wang, R.; Pohl, D.; Roth, F.
Time-dependent Coulomb stress changes in the Marmara
Sea region (solicited)

9:45–10:00; EGU2007-A-04239; NP3.06-1WE1O-005
Dahm, T.; Krueger, F.
Gas-recovery from deep reservoirs and its potential to trigger
earthquakes

10:00 COFFEE BREAK

Chairperson: ZOELLER, G.

10:30–11:00; EGU2007-A-06408; NP3.06-1WE2O-001
Ziv, A.
What controls the spatial distribution of remote aftershocks?
(solicited)

11:00–11:15; EGU2007-A-03465; NP3.06-1WE2O-002
Bizzarri, A.; Belardinelli, M. E.
Modeling instantaneous dynamic triggering in a 3-D fault
system: the case of an early and remote aftershock in the
June 2000 South Iceland seismic sequence

11:15–11:30; EGU2007-A-07921; NP3.06-1WE2O-003
Corral, A.
Universal Earthquake-Occurrence Jumps, Correlations with
Time, and Anomalous Diffusion

11:30–11:45; EGU2007-A-04933; NP3.06-1WE2O-004
Wyss, M.; Pacchiani, F.
New evidence that b-values inversely correlate with stress:
Dips of normal fault planes in the Corinth Rift

11:45–12:00; EGU2007-A-06312; NP3.06-1WE2O-005
Nanjo, K. Z.; Wiemer, S.; Woessner, J.; Christophersen, A.;
Euchner, F.; Schorlemmer, D.
Testing earthquake forecasts for Europe: Primary scope and
recent progress

12:00 END OF SESSION

NP3.07 Scale, Scaling, and nonlinearity in Solid Earth (co-listed in GMPV, NH, SSS & TS)

Convener: Cheng, Q.
Co-Convener(s): Gaonac’h, H., Tarquis, A.
Lecture Room 27
Chairperson: N.N.

13:30–13:45; EGU2007-A-07256; NP3.07-1WE3O-001
Tarquis, A.M.; Heck, R.; Antón, J.M.; Elliot, T.; Grau, J.B.
Influence of thresholding in mass dimension of 3-D Soil
Images (solicited)

13:45–14:00; EGU2007-A-05885; NP3.07-1WE3O-002
Cheng, Q.
Power-law models for prediction of undiscovered mineral
deposits and for assessment of mineral resources (solicited)

14:00–14:15; EGU2007-A-10291; NP3.07-1WE3O-003
Baveye, P.; Crawford, J.; Young, I.
 Influence of the resolution of digital images on the multi-fractal spectra of natural porous media

14:15–14:30; EGU2007-A-10530; NP3.07-1WE3O-004
Si, BC
 Wavelet Based Multifractal Analysis of Field Scale Variability in Soil Water

14:30–14:45; EGU2007-A-10676; NP3.07-1WE3O-005
Gerik, A.; Kruhl, J.H.
 Automated quantification of fabric anisotropy and inhomogeneity with the AMOCADO toolbox

14:45–15:00; EGU2007-A-05160; NP3.07-1WE3O-006
 Jafari, M.; Nafisi, V.; Jodaki, GH; **Safari, A**
 Reconstruction and comparison of EIGEN-1S, EIGEN-2, EIGEN-GRACE01S, EGM96 geopotential models using Spherical Wavelets (solicited) (cancelled)

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-11643; NP3.07-1WE4O-001
 Alonso, C.; Tarquis, A.M.; Benito, R.M.; Zúñiga, I.
 Scaling properties of vegetation and soil moisture indices: multifractal and joint multifractal analysis (solicited)

15:45–16:00; EGU2007-A-00103; NP3.07-1WE4O-002
Das, N.K.; Chaudhuri, H.; Bhandari, R.K.; Ghose, D.; Sen, P.; Sinha, B.
 Scaling and Crossover phenomena in pre-seismic helium signal (solicited)

16:00–16:15; EGU2007-A-08115; NP3.07-1WE4O-003
 Vidal Vázquez, E.; García Moreno, R.; Vivas Miranda, J.G.; Díaz, M.C.; Paz, A.; Saa, A.; **Tarquis, A.M.**
 Assessing microrelief decay during simulated rainfall by Multifractal analysis (solicited)

16:15 END OF SESSION

NP3.08 Scales and scaling in surface and subsurface hydrology (co-listed in HS)

Convener: de Lima, J.
 Co-Convener(s): Krajewski, W., Hunt, A.
 Lecture Room 27
 Chairperson: LIMA, J.L.M.P. DE

16:15–16:30; EGU2007-A-10247; NP3.08-1WE4O-004
Uijlenhoet, R.
 From discrete to continuous - rainfall observations over a range of scales (solicited)

16:30–16:45; EGU2007-A-04688; NP3.08-1WE4O-005
Lovejoy, S.; Allaire, V.; Schertzer, D.
 Direct Evidence for the Scaling of Rain From 20,000 to 5 km using TRMM Satellite Radar (solicited)

16:45–17:00; EGU2007-A-10566; NP3.08-1WE4O-006
Foufoula-Georgiou, E.; Dietrich, W.E.
 Landscape dissection and network hydrology: Advancing the hydrologic implications of geomorphologic multiscaling (solicited)

17:00 COFFEE BREAK

Chairperson: KRAJEWSKI, W.

17:30–17:45; EGU2007-A-07058; NP3.08-1WE5O-001
de Lima, MIP; de Lima, JLMP; Coelho, MFES
 Spatial and temporal variability of precipitation in the Madeira archipelago

17:45–18:00; EGU2007-A-05285; NP3.08-1WE5O-002
Malcolm, I.A.; Soulsby, C.; Youngson, A.F.; Tetzlaff, D.
 The importance of scale in hydro-ecological studies of groundwater – surface water interactions in the hyporheic zone

18:00–18:15; EGU2007-A-09386; NP3.08-1WE5O-003
 Rigon, R.; **Cordano, E.**
 On soil water pressure dynamics at the short timescale

18:15–18:30; EGU2007-A-11318; NP3.08-1WE5O-004
Gebremichael, M.; Vivoni, E.R.
 Investigation of the Scaling Properties of Simulated Soil Moisture Fields

18:30–18:45; EGU2007-A-05908; NP3.08-1WE5O-005
Harter, T.; Knudby, C.
 Effective conductivity in regular periodic media with cuboid inclusions

18:45–19:00; EGU2007-A-10893; NP3.08-1WE5O-006
 Cetinkaya, C.P.; **Harmancioglu, N.B.**
 Spatial optimization of water quality monitoring networks

19:00 END OF SESSION

NP4.01 Nonlinear time series analysis in the geosciences

Convener: Donner, R.
 Co-Convener(s): Barbosa, S.
 Lecture Room 22
 Chairperson: DONNER, R.

8:30–9:00; EGU2007-A-02484; NP4.01-1WE1O-001
Hsieh, W.
 Nonlinear principal component analysis of noisy data (solicited)

9:00–9:15; EGU2007-A-09935; NP4.01-1WE1O-002
Rust, H. W.
 The Detection of Long-Range Dependence formulated as a Model Selection Problem (solicited)

9:15–9:30; EGU2007-A-00480; NP4.01-1WE1O-003
Petoukhov, V.K.; Eliseev, A.V.; Klein, R.; Oesterle, H.
 On statistics of the free-troposphere synoptic component: An evaluation of the contribution from the third-order moments to the synoptic-scale dynamics and fluxes of heat and humidity

9:30–9:45; EGU2007-A-10262; NP4.01-1WE1O-004
Palus, M.; Novotna, D.
 Modes of atmospheric variability and their interactions

9:45–10:00; EGU2007-A-00430; NP4.01-1WE1O-005
Ramirez, M. E.; Berrocoso, M.; Gonzalez-Fuentes, M. J.; Fernandez-Ros, A.
 Crustal deformation models and time - frequency analysis of GPS data from Deception Island Volcano (South Shetland Islands, Antarctica) (solicited)

10:00 COFFEE BREAK

Chairperson: BARBOSA, S.

10:30–10:45; EGU2007-A-02020; NP4.01-1WE2O-001
Moore, J.; Grinsted, A.; Jevrejeva, S.
 Is there evidence for sunspot forcing of climate at multi-year and decadal periods? (solicited)

10:45–11:00; EGU2007-A-10514; NP4.01-1WE2O-002
Witt, A.; Oberhaensli, H.; Schumann, A. Y.
 Identification of millennial Scale Climate Variability over the Holocene by Wavelet Analysis

11:00–11:15; EGU2007-A-00913; NP4.01-1WE2O-003
Khristoforov, A.V.; Khristoforova, N.N.; Burganov, B.T.
 Wavelet Analysis of Spatial Temperature Waves: A New Approach to the Study of the Earth's Interior

11:15–11:30; EGU2007-A-09598; NP4.01-1WE2O-004
 Bube, K.; Klenke, T.; Freund, J.; **Feudel, U.**
 Statistical measures of distribution patterns of silicon and calcium in marine sediments

11:30–11:45; EGU2007-A-02459; NP4.01-1WE2O-005
 Hawkins, J.; Christov, I.; **Warn-Varnas, A.**
 Analysis of internal gravity waves using the Fourier, scattering, and continuous wavelet transforms

11:45–12:15; EGU2007-A-02047; NP4.01-1WE2O-006
Tsonis, A.A.
 Synchronization and coupling in climate networks (solicited)

12:15 LUNCH BREAK

Chairperson: RUST, H.

13:30–13:45; EGU2007-A-03010; NP4.01-1WE3O-001
Wicks, R. T.; Chapman, S. C.; Dendy, R. O.
 Quantifying spatial correlation in the turbulent solar wind flow using mutual information and recurrence plots: simultaneous in-situ spacecraft observations from Wind, ACE and Cluster.

13:45–14:00; EGU2007-A-02036; NP4.01-1WE3O-002
Moroz, I.
 Unstable periodic orbits in self-exciting dynamo

14:00–14:15; EGU2007-A-02535; NP4.01-1WE3O-003
Duane, G.
 Automatic parameter estimation in a mesoscale model without ensembles

14:15–14:30; EGU2007-A-01230; NP4.01-1WE3O-004
 Muntendam-Bos, A.G.; **Kroon, I.C.;** Fokker, P.A.
 Time dependent inversion of surface subsidence due to dynamic reservoir compaction

14:30 END OF SESSION

NP4.02 Statistical analysis of paleoclimate time series (co-listed in CL)

Convener: Mudelsee, M.
 Co-Convener(s): Witt, A.
 Lecture Room 22
 Chairperson: N.N.

16:45–17:15; EGU2007-A-04192; NP4.02-1WE4O-006
Yiou, P.
 Bivariate multiscale analysis of paleoclimate records (solicited)

17:15 COFFEE BREAK

Chairperson: N.N.

17:30–17:45; EGU2007-A-05891; NP4.02-1WE5O-001
Fischer, M.; Fink, D.
 A piecewise continuous regression analysis of del 18-O Antarctic ice-core records to identify trends and timing of climate behaviour.

17:45–18:00; EGU2007-A-09195; NP4.02-1WE5O-002
Riedwyl, N.; Luterbacher, J.; Wanner, H.
 Improved climate field reconstruction techniques: Application to Europe

18:00–18:15; EGU2007-A-06584; NP4.02-1WE5O-003
Donner, R.; Witt, A.
 Qualitative Characterization of Long-Term Climate Change recorded in Palaeoclimatic Time Series by Multivariate Dimension Estimates and their Univariate Analogs

18:15–18:45; EGU2007-A-03332; NP4.02-1WE5O-004
Juillet-Leclerc, A.; Thiria, S.
 Neural Networks applied on multi-proxies from coral skeleton (solicited)

18:45 END OF SESSION

NP4.03 Simple dynamical models from data: a tool for parametrizations and diagnostics (co-listed in CL)

Convener: von Hardenberg, J.
 Co-Convener(s): D'Andrea, F.
 Lecture Room 22
 Chairperson: N.N.

15:30–15:45; EGU2007-A-10745; NP4.03-1WE4O-001
d'Ovidio, F.; Legras, B.
 Towards a parameterisation of horizontal stirring (solicited)

15:45–16:15; EGU2007-A-01966; NP4.03-1WE4O-002
LaCasce, J. H.; Nost, O. A.; Isachsen, P. E.
 Predicting wind-driven ocean currents at high latitudes (solicited)

16:15–16:30; EGU2007-A-05535; NP4.03-1WE4O-003
Cuellar, M.C.; Du, H.; Judd, K.; Smith, L.A.
 Parameter Estimation in Nonlinear Systems using Shadowing Times

16:30–16:45; EGU2007-A-08848; NP4.03-1WE4O-004
Weisheimer, A.; Berner, J.; Doblas-Reyes, F. J.; Palmer, T. N.
 Stochastic parametrisations in ensemble seasonal predictions

16:45 END OF SESSION

NP5.05 Ensemble prediction in hydrology (HEPEX) (co-listed in HS & NH)

Convener: Balint, G.
 Co-Convener(s): Thielen, J.
 Lecture Room 24
 Chairperson: N.N.

13:30–13:45; EGU2007-A-08170; NP5.05-1WE3O-001
Schaake, J
 HEPEX status report

13:45–14:00; EGU2007-A-11123; NP5.05-1WE3O-002
 Hou, D.; Mitchell, K.; **Toth, Z.;** Lohmann, D.; Wei, H.
 Ensemble river flow forecasting experiments at NCEP

14:00–14:15; EGU2007-A-09104; NP5.05-1WE3O-003
Grossi, G.; Bacchi, B.; Buizza, R.; Buzzi, A.; Malguzzi, P.; Ranzi, R.
 Hydrological Ensemble Prediction System: a “target-basin” approach

14:15–14:30; EGU2007-A-09414; NP5.05-1WE3O-004
Bartholmes, J.C.; Thielen, J.
 Forecasting skill assessment for the European flood alert system EFAS

14:30–14:45; EGU2007-A-08203; NP5.05-1WE3O-005
Weichel, T.; Pappenberger, F.; Haase, D.; Schulz, K.
 Integration of on-site land use changes in the flood inundation modelling – concept of an analysis framework

14:45–15:00; EGU2007-A-06508; NP5.05-1WE3O-006
 Siccardi, F.; **Boni, G.**; Ferraris, L.; Rebora, N.; Rudari, R.
 MEDUSA: METHodology for the Definition of the Uncertainty associated to event ScenArios

15:00 END OF SESSION

NP6.01 Transport, Diffusion and Mixing in Geophysical flows – Posters

Convener: Lopez, C.
 Co-Convener(s): Tampieri, F., Károlyi, G.
 Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 13:30–15:00

Poster Area Halls X/Y
 Chairperson: LOPEZ, C.

XY0670; EGU2007-A-00396; NP6.01-1WE3P-0670
 Chashechkin, Yu.D
 Regular and singular components of environmental flows

XY0671; EGU2007-A-03503; NP6.01-1WE3P-0671
Sergeev, D.; Soustova, I.; Troitskaya, Yu.
 Experimental studying of turbulent buoyant jet in a stratified fluid

XY0672; EGU2007-A-06316; NP6.01-1WE3P-0672
Kostyrykin, S.; Khapaev, A.; Ponomarev, V.; Yakushkin, I.
 Lagrangian structures in time-periodic vortical flows

XY0673; EGU2007-A-07799; NP6.01-1WE3P-0673
Rossi, V.; Lopez, C.; Sudre, J.; Charria, G.; Garcon, V.
 Comparative study of Benguela and Canary upwelling systems with Finite Size Lyapunov Exponents

XY0674; EGU2007-A-09878; NP6.01-1WE3P-0674
d'Ovidio, F.; Legras, B.
 Lyapunov diffusion and transport barriers (solicited)

NP6.02 Nonlinear Waves, Instabilities and Wave-flow interactions (co-listed in OS) – Posters

Convener: Rey, V.
 Co-Convener(s): Ostrovsky, L.
 Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 13:30–15:00

Poster Area Halls X/Y
 Chairperson: FRAUNIE P.

XY0675; EGU2007-A-00629; NP6.02-1WE3P-0675
Kopnin, S.I.; Popel, S.I.
 Excitation of infrasonic oscillations during meteor fluxes

XY0676; EGU2007-A-00928; NP6.02-1WE3P-0676
Bakhanov, V.V.; Ermoshkin, A.V.; Kazakov, V.I.; Kemarskaya, O.N.; Lobanov, V.N.; Repina, I.N.; Titov, V.I.; Zuikova, E.M.
 The diurnal dynamics of surface wave anomalies in a shelf area

XY0677; EGU2007-A-00943; NP6.02-1WE3P-0677
 Khristoforov, A.; Khristoforova, N.; **Burganov, B.**
 Fourier and wavelet analysis of the thermograms: application to the rock sequence investigations

XY0678; EGU2007-A-02430; NP6.02-1WE3P-0678
Mcdonald, B.
 Instantaneous shock formation in Hertzian media

XY0679; EGU2007-A-02904; NP6.02-1WE3P-0679
 Sergeev, D.A.; **Soustova, I.A.**; Troitskaya, Yu. I
 Experimental studying of turbulent buoyant jet in a stratified fluid

XY0680; EGU2007-A-03539; NP6.02-1WE3P-0680
 Gorshkov, K.; **Soustova, I.**; Shevz, L.
 Composite solitons for the Choi-Camassa model (CÑ-model) and their importance for the description of the evolution of internal waves without amplitude and velocity constraint.

XY0681; EGU2007-A-04155; NP6.02-1WE3P-0681
Rybushkina, G.V.; Reutov, V.P.
 Modeling of the convective patterns in the thermal boundary layer of the sea

XY0682; EGU2007-A-04859; NP6.02-1WE3P-0682
 Häusler, H.; Payer, T.; Tanzberger, A.; Rank, D.; Papesch, W.
 Thermal upwelling at Lake Neusiedl revised (Northern Burgenland, Austria)

XY0683; EGU2007-A-05707; NP6.02-1WE3P-0683
Annenkov, S.; Shkira, V.
 When the Hasselmann equation fails: "Fast" nonlinear evolution of water wave spectra

XY0684; EGU2007-A-06237; NP6.02-1WE3P-0684
Gula, J.; Plougonven, R.; Zeitlin, V.
 Ageostrophic instabilities of balanced flows and their nonlinear evolution

XY0685; EGU2007-A-08315; NP6.02-1WE3P-0685
Johnson, E. R.; Esler, J. G.; Rump, O. J.
 Orographically-generated nonlinear waves and shocks

XY0686; EGU2007-A-09964; NP6.02-1WE3P-0686
Percival, J.; Holm, D.; Cotter, C
 A multilayer equation set for modelling large-scale ocean internal wave interactions

XY0687; EGU2007-A-10597; NP6.02-1WE3P-0687
Shermenev, A.
 Nonlinear waves in special coordinates

NP6.03 Jets, Wakes and Vortices – Posters

Convener: Montabone, L.
 Co-Convener(s): Chashechkin, Y., Redondo, J.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 13:30–15:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0688; EGU2007-A-00395; NP6.03-1WE3P-0688
Bardakov, R.N.; Vasiliev, A.Yu.
 Dynamics of 3D periodic internal wave beams and concomitant singular elements

XY0689; EGU2007-A-02885; NP6.03-1WE3P-0689
Bécu, E.; Pavlov, V.
 Uniformly rotating regular vortex structures

XY0690; EGU2007-A-08376; NP6.03-1WE3P-0690
 Sutyryn, G.; **Perrot, X.**; Carton, X.
 Vortex couples in an axisymmetric large-scale flow

XY0691; EGU2007-A-09896; NP6.03-1WE3P-0691
 Esler, G
 The turbulent equilibration of an unstable baroclinic jet

NP6.05 Turbulence in the Atmosphere and Ocean (co-listed in AS & OS) – Posters

Convener: Yagüe, C.

Co-Convener(s): Fraunie, P.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: FRAUNIE, P.

XY0692; EGU2007-A-04549; NP6.05-1WE3P-0692

Jiménez, M.A.; Mira, A.; Cuxart, J.

PDF methods to study the nocturnal boundary layer: application to a mesoscale simulation

XY0693; EGU2007-A-03340; NP6.05-1WE3P-0693

Mira, A.; Cuxart, J.; Martínez, D.

Influence of topographically generated mesoscale motions on the stable boundary layer

XY0694; EGU2007-A-03572; NP6.05-1WE3P-0694

Martínez, D.; Cuxart, J.; Jiménez, M. A.; Cunillera, J.

Study of a conditioned climatology for stable nights

XY0695; EGU2007-A-02979; NP6.05-1WE3P-0695

Yagüe, C.; Viana, S.; Maqueda, G.; Lazcano, M.F.; Morales, G.; Sánchez, M.L.; Serrano, E.; Cámara, A.; García, J.; Sánchez, E.

The Nocturnal Atmospheric Boundary Layer during the field campaign SABLES2006

XY0696; EGU2007-A-04584; NP6.05-1WE3P-0696

Viana, S.; Yagüe, C.; Maqueda, G.; Morales, G.

Study of pressure perturbations in the Nocturnal Atmospheric Boundary Layer during the field campaign SABLES2006

XY0697; EGU2007-A-09776; NP6.05-1WE3P-0697

Vindel, J.M.; Yagüe, C.; Redondo, J.M.

Structure function analysis and intermittency of the atmospheric boundary layer

XY0698; EGU2007-A-11149; NP6.05-1WE3P-0698

Cantalapiedra, I.R.; Yague, C.; Mahjoub, O.B.; Redondo, J.M.

Intermittency of ABL turbulence

XY0699; EGU2007-A-02242; NP6.05-1WE3P-0699

Lopez, P.; Cano, J.L.; **Redondo, J.M.**

Buoyant mixing modifications by plume arrays

XY0700; EGU2007-A-02466; NP6.05-1WE3P-0700

Tijera, M.; Cano, J. L.

Analytical proposed of deterministic perturbations of the wind. Fractal dimension.

XY0701; EGU2007-A-10987; NP6.05-1WE3P-0701

Diez, M.; Bezerra, M.O.; Redondo, J.M.

Turbulent Diffusion in the Coastal Regions

XY0702; EGU2007-A-01447; NP6.05-1WE3P-0702

Kartashova, E.

Coherent structures in wave turbulent transport - graph-theoretical approach

8:30–8:45; EGU2007-A-11473; OS2-1WE1O-001

Hyder, P.; Simpson, J.H.; Xing, J.; Gille, S.

Wind-forced oscillations near the critical latitude for diurnal-inertial resonance (solicited)

8:45–9:00; EGU2007-A-03894; OS2-1WE1O-002

Valle-Levinson, A.

Characterization of estuary/ocean exchange in terms of the Kelvin and Ekman numbers

9:00–9:15; EGU2007-A-02448; OS2-1WE1O-003

Dobrynin, M.; Guenther, H.

Dynamics of Suspended Particulate Matter in the North Sea: Fusing Waves, Ocean Circulation and Transport Models with Remote Sensing Data

9:15–9:45; EGU2007-A-10390; OS2-1WE1O-004

MacCready, P

Energetics of Coastal and Estuarine Upwelling (solicited)

9:45–10:00; EGU2007-A-04057; OS2-1WE1O-005

de Swart, H.E.; Vis-Star, N.C.; Calvete, D.

Nonlinear dynamics of storm-driven currents, waves and sand ridges on the shelf: a spectral model

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-07776; OS2-1WE2O-001

Brovchenko, I.; Koshebutskyy, V.; Maderich, V.; Terletskaya, K.

Application of 3D Lagrangian multi-size sediment transport model to the simulation of dense water cascading due to winter shelf convection and turbidity

10:45–11:00; EGU2007-A-01119; OS2-1WE2O-002

Darelius, E.; Wåhlin, A. K.

Topographic steering of dense overflow plumes by canyons and ridges

11:00–11:15; EGU2007-A-05663; OS2-1WE2O-003

Heywood, K.J.; Thorpe, S.E.; Thompson, A.F.; Renner, A.H.H.; Trasviña, A.

The Antarctic Slope Front: what happens to it at the tip of the Antarctic Peninsula?

11:15–11:30; EGU2007-A-11472; OS2-1WE2O-004

Shapiro, G.I.; O'Neill, C.K.

Dense water cascades: physical mechanisms and implications for fishery on the Rockall Bank

11:30–11:45; EGU2007-A-02735; OS2-1WE2O-005

Malacic, V.; Petelin, B.

Climate circulation in the Gulf of Trieste (northern) Adriatic and its application in a study of the ecological impact of potential gas terminals

11:45–12:00; EGU2007-A-06318; OS2-1WE2O-006

Oddo, P.; Pinardi, N.

A numerical study of the mesoscale variability in the Adriatic Sea

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2007-A-04861; OS2-1WE3O-001

Kordzadze, A. A.; Demetrashvili, D. I

Modeling and forecasting of the Black Sea circulation in the some part of the Georgian coastal zone

Ocean Sciences

OS2 Open session on coastal and shelf oceanography (co-listed BG)

Convener: Shapiro, G.

Co-Convener(s): de Swart, H.

Lecture Room D

Chairperson: SHAPIRO, G.I.

13:45–14:00; EGU2007-A-10134; OS2-1WE3O-002
GAZYÖGLU, C; MÜFTÜÖDLU, A E; DEMÝR, V;
 YÜCEL, Z Y
 Analyzing Sakarya River Flume (Black Sea) and Hydrodynamic Features of the Sakarya River Mouth by Using Geoscience Technology

14:00–14:15; EGU2007-A-10804; OS2-1WE3O-003
Jakacki, J.; Osinski, R.; Piechura, J.; Walczowski, W.; Kitowska, M.
 Eddie activities in the south Baltic Sea: analysis of numerical model results and observations.

14:15–14:30; EGU2007-A-05029; OS2-1WE3O-004
Graewe, U.; Ribbe, J.; Wolff, J.-O.; Staneva, J.
 Ventilation times scales for a subtropical bay from 3-D modelling

14:30–14:45; EGU2007-A-04744; OS2-1WE3O-005
Candela, J.; Sheinbaum, J.; Ochoa, J.; Badan, A.
 The response of the Yucatan Current to the passage of Hurricane Wilma.

14:45–15:00; EGU2007-A-03089; OS2-1WE3O-006
Warn-Varnas, A.; Hawkins, J.; Chin-Bing, S.; King, D.; Coelho, E.; Ko, D.; Lamb, K
 Parameter based solitary wave predictions in South China Sea

15:00 END OF SESSION

OS2 Open session on coastal and shelf oceanography (co-listed BG) – Posters

Convener: Shapiro, G.

Co-Convener(s): de Swart, H.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: SHAPIRO, G.I.; DE SWART, H.

XY0703; EGU2007-A-01287; OS2-1WE5P-0703
 Izerger, V.L.; Liapidevsky, V.Yu.; **Navrotsky, V.V.;**
 Pavlova, E.P.
 Internal wave generation and breaking in the coastal zone of sea

XY0704; EGU2007-A-01557; OS2-1WE5P-0704
Buck, J.; Lane-Serff, G.
 Laboratory experiments of eddy blocking by ice shelves (solicited)

XY0705; EGU2007-A-01787; OS2-1WE5P-0705
Nilsson, JAU; Lundberg, P; Sigray, P; Meier, HEM
 Influence of Baroclinic flow on Induced-Voltage Measurements

XY0706; EGU2007-A-02029; OS2-1WE5P-0706
White, L.; Deleersnijder, E.; Legat, V.; Wolanski, E.
 Three-dimensional tidal flow structure around a shallow-water island: observations and prediction of vertical transport using a finite element model

XY0707; EGU2007-A-02562; OS2-1WE5P-0707
Dommenget, D.; Latif, M.
 Generation of Hyper climate Modes

XY0708; EGU2007-A-02919; OS2-1WE5P-0708
Lepore, K.; Moran, S. B.; Smith, J. N.
 Lead-210 as a tracer of shelf-basin transport and sediment focusing in the Chukchi Sea

XY0709; EGU2007-A-03721; OS2-1WE5P-0709
Blaise, S.; White, L.; Comblen, R.; Legat, V.; Deleersnijder, E.

Three-dimensional finite element modeling of the flow around a shallow-water island: impact of the turbulence closure scheme on vertical transport

XY0710; EGU2007-A-03841; OS2-1WE5P-0710
Akimova, A.; Schauer, U.; Danilov, S.; Androsov, A.
 Outflow of shelf dense water in Arctic Ocean - Storfjorden in Svalbard.

XY0711; EGU2007-A-04020; OS2-1WE5P-0711
Ashik, I.M.; **Pavlov, V.K.**
 Seasonal and long-term variability of the sea level in the coastal zone of the Norwegian and Barents seas

XY0712; EGU2007-A-04113; OS2-1WE5P-0712
Cambon, G.; Speich, S.; Marchesiello, P.; Memery, L.
 Modelling of the Iroise Sea: Sensitivity of the Ushant tidal mixing front and lagrangian cross-frontal exchange (solicited)

XY0713; EGU2007-A-04213; OS2-1WE5P-0713
Janekovic, I.; Kuzmic, M.
 The Adriatic Sea tidal energy budget: energy fluxes and dissipation sinks

XY0714; EGU2007-A-04724; OS2-1WE5P-0714
Margolina, T.; Collins, C.A.; Rago, T.A.
 Across-shore eddy transport off Central California (solicited)

XY0715; EGU2007-A-04929; OS2-1WE5P-0715
 Gvelesiani, A. I; Demetrashvili, D. I; Kvaratskhelia, D. U
 Numerical study of the turbulent characteristics of cyclonic and anticyclonic

XY0716; EGU2007-A-05913; OS2-1WE5P-0716
Klocker, A.; Meijers, A.; Bindoff, N.; Williams, G.; Marsland, M.; Aoki, S.; Iijima, Y.
 Large scale circulation from 30-80°E along the Antarctic coastline

XY0717; EGU2007-A-06037; OS2-1WE5P-0717
 Gvelesiani, A. I; Demetrashvili, D. I; Kvaratskhelia, D. U
 Numerical study of the turbulent characteristics of cyclonic and anticyclonic vortical structures in the Black Sea

XY0718; EGU2007-A-06114; OS2-1WE5P-0718
Park, Y.-G.; Yeh, S.-W.
 The origin of the Tsushima Warm Current in a high resolution ocean circulation model

XY0719; EGU2007-A-06474; OS2-1WE5P-0719
 Leterme, S.C.; Pingree, R.D.; **Seuront, L.**
 Structure of phytoplankton (Continuous Plankton Recorder and SeaWiFS) and impact of climate in the Northwest Atlantic Shelves

XY0720; EGU2007-A-06520; OS2-1WE5P-0720
Liao, H.R.; Yu, H.S.
 The morphology, sedimentation and evolution of Changyun Sand Ridge in Taiwan Strait, Southeastern Asia

XY0721; EGU2007-A-07067; OS2-1WE5P-0721
 Raudsepp, U; **Sipelgas, L.;** Soosaar, E
 The upwelling event in the southern Gulf of Finland in August 2006 on satellite images and in the numerical model results.

XY0722; EGU2007-A-07248; OS2-1WE5P-0722
Wolf, J.; Osuna, P; Bolanos, R; Monbaliu, J; Arcilla, A
 Coupled wave and current modelling in the MARIE project

XY0723; EGU2007-A-07830; OS2-1WE5P-0723
Mouret, A.; Anschutz, P.; Chaillou, G.; Hyacinthe, C.;
 Deborde, J.; Lecroart, P.; Jorissen, F.; Schmidt, S.; Jouanneau, J.-M.
 Early diagenesis of manganese and the sediment accumulation rate

XY0724; EGU2007-A-08221; OS2-1WE5P-0724
Eriksson, C; Hansson, D; Omstedt, A; Chen, D
 Reconstructing the past 500 years of river runoff to the Baltic Sea.

XY0725; EGU2007-A-08544; OS2-1WE5P-0725
Wählin, A. K.; Darelus, E.; Cenedese, C.; Lane-Serff, G.
 Laboratory observations of increased plume entrainment in the presence of submarine canyons and ridges (solicited)

XY0726; EGU2007-A-08610; OS2-1WE5P-0726
Gomez-Gesteira, M.; deCastro, M.; Alvarez, I.; Lorenzo, N.; Crespo, AJC; Gesteira, JLG
 Atmospheric modes influence on coastal upwelling along the west coast of the Iberian Peninsula.

XY0727; EGU2007-A-08670; OS2-1WE5P-0727
Hoitink, AJF; Peters, HC; Schroevens, M
 Separating waves from turbulence in ADCP velocity measurements

XY0728; EGU2007-A-02001; OS2-1WE5P-0728
Grygar, T.; Polyak, L.; Schneeweiss, O.
 Nature of Fe-precipitates in sediments from the Mendeleev Ridge, Arctic Ocean

XY0729; EGU2007-A-10332; OS2-1WE5P-0729
Badan, A.; Rivas, D; Candela, J; Sheinbaum, J; Ochoa, J
 The flow off the NW Gulf of Mexico slope before oncoming Loop Current eddies (solicited)

XY0730; EGU2007-A-10646; OS2-1WE5P-0730
Castro, R.; Lavin, MF; Beier, E; Amador Buenrostro, A
 Thermohaline structure and currents in the Gulf of California, México: Summer 2004

XY0731; EGU2007-A-10706; OS2-1WE5P-0731
De Boer, G.J.; Pietrzak, J.D.; Winterwerp, J.C.
 Tidal straining induced upwelling in the Rhine ROFI (solicited)

XY0732; EGU2007-A-11218; OS2-1WE5P-0732
Amrouni-Bouazi, O.; Souissi, R.; Barusseau, J.P.; Abdeljaoued, S.; Pauc, H.; Certain, R.
 The Mahdia Bay shoreface (Tunisia): assessment of coastal sensitivity by textural and morphodynamical studies

XY0733; EGU2007-A-11707; OS2-1WE5P-0733
Churilova, T.; Suslin, V.; Berseneva, G.; Georgieva, L.
 Seasonal and regional variations in light absorption by phytoplankton, suspended particles and dissolved organic matter in the Black Sea (solicited)

XY0982; EGU2007-A-11733; OS2-1WE5P-0982
Bruschi, A.
 Assimilation of meteorological observation in a coastal forecasting system, with cases study in the North Adriatic Sea

OS6 IMBER/SOLAS Special Session (co-listed in AS, BG, CL & NP) – Posters

Convener: Oguz, T.
 Co-Convener(s): Garcon, V.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0734; EGU2007-A-00216; OS6-1WE5P-0734
De Bodd, C.; d'Hoop, Q.; Harlay, J.; Chou, L.
 Calcification and transparent exopolymer particles (TEP) production in batch cultures of *Emiliania huxleyi* exposed to different pCO₂

XY0735; EGU2007-A-00659; OS6-1WE5P-0735
Glessmer, M. S.; Oschlies, A.; Yool, A.
 Simulated impact of double-diffusive mixing on physical and biogeochemical upper-ocean properties

XY0736; EGU2007-A-00711; OS6-1WE5P-0736
Rees, A.; Law, C; Millward, N
 Natural rates and nutrient limitation of nitrogen fixation in Atlantic and Mediterranean waters with respect to atmospheric nutrient supply. (cancelled)

XY0737; EGU2007-A-01440; OS6-1WE5P-0737
Rees, A.P.; Nightingale, P.D.; Owens, N.J.P; PML FeeP Team
 FeeP – An in-situ PO₄³⁻ and Fe²⁺ addition experiment to waters of the sub-tropical north-east Atlantic (cancelled)

XY0738; EGU2007-A-02295; OS6-1WE5P-0738
Rutgersson, A.; Sahlee, E; Norman, M; Smedman, A
 Directly measured and calculated fluxes of carbon dioxide in the Baltic Sea

XY0739; EGU2007-A-02939; OS6-1WE5P-0739
Tian, T.; Brandt, G.; Merico, A.; Wirtz, K.; Staneva, J.
 A numerical study of phytoplankton dynamics in the German Bight

XY0740; EGU2007-A-03449; OS6-1WE5P-0740
Schneider, B.; Segsneider, J.; Gehlen, M.; Bopp, L.
 Modeling the sensitivity of air-sea CO₂ fluxes to remineralization depth of POC

XY0741; EGU2007-A-03771; OS6-1WE5P-0741
Glessmer, M. S.; Oschlies, A.; Eden, C.
 Origin of source waters of the West African upwelling region - a model study

XY0742; EGU2007-A-04051; OS6-1WE5P-0742
Vantrepotte, V.; Melin, F.
 Penetration of spectral visible and ultraviolet radiations in the upper ocean for photobiological and photochemical applications in the Mediterranean Sea

XY0743; EGU2007-A-04321; OS6-1WE5P-0743
Salihoglu, B.; Garcon, V.; Oschlies, A.; Lomas, M.
 Influence of nutrient utilization and remineralization stoichiometry on phytoplankton species and carbon export: a modeling study at BATS

XY0744; EGU2007-A-04439; OS6-1WE5P-0744
Hofmann, E.; **Mannino, A.;** U.S.-ECOS TEAM
 Integrated study of the carbon budget of the continental shelf of the Mid-Atlantic and South Atlantic Bights

XY0745; EGU2007-A-04630; OS6-1WE5P-0745
Schmidt, S.; Belviso, S.; Wassmann, P.; Thouzeau, G.; Stefels, J.
 Vernal sedimentation trends in north Norwegian fjords: temporary anomaly in particulate export related to *Phaeocystis* pouchetii proliferation

XY0746; EGU2007-A-05126; OS6-1WE5P-0746
Cochlan, W.P.; Wells, M.L.; Trick, C.G.; Herndon, J.
 The Effect of Iron and Copper on Nutrient Utilization and New Production in High Nitrate Low Chlorophyll Waters

XY0747; EGU2007-A-06195; OS6-1WE5P-0747
Fujiki, T.; Watanabe, S; Hosaka, T; Saino, T
 Underwater profiling buoy system for observation of phytoplankton productivity

XY0748; EGU2007-A-06343; OS6-1WE5P-0748
 Waniek, J.J.; **Chavagnac, V.**; Atkin, D.; Leipe, T.; Bahlo, R.;
 Schultz-Bull, D.E.
 Anti-Atlas Moroccan chain as the unique source of
 lithogenic-derived elemental fluxes to the deep subtropical
 Northeast Atlantic Ocean (33°N, 22°W)

XY0749; EGU2007-A-06504; OS6-1WE5P-0749
Mawji, E.; Gledhill, M.; Achterberg, E
 Production and occurrence of specific organic iron com-
 plexes: siderophores in the Atlantic Ocean

XY0750; EGU2007-A-07609; OS6-1WE5P-0750
Chever, F.; Bucciarelli, E.; Blain, S.; Bowie, A.; Sarthou, G.
 Distribution of total dissolvable iron during the natural iron
 fertilisation experiment KEOPS (Kerguelen Island, Southern
 Ocean)

XY0751; EGU2007-A-07903; OS6-1WE5P-0751
Bucciarelli, E.; Sarthou, G.; Pondaven, P.; Claquin, P.
 Effects of an iron-light co-limitation on the elemental
 composition (Si, C, N) of two marine diatoms

XY0752; EGU2007-A-08615; OS6-1WE5P-0752
Bange, H.W.; Walter, S.
 Nitrous oxide in the Costa Rica Dome area (eastern tropical
 North Pacific Ocean)

XY0753; EGU2007-A-09270; OS6-1WE5P-0753
Xylouri, A.; Benning, L.; Krom, M.; Statham, P.
 Changes in the form of iron oxides in Saharan dust resulting
 from simulated cloud evaporation and condensation pro-
 cesses.

OS10 Ocean Remote Sensing (colisted GD, CL) – Posters

Convener: Schrama, E.
 Co-Convener(s): MILLER, J., Han, G., Barale, V.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0754; EGU2007-A-01891; OS10-1WE5P-0754
 Rosmorduc, V.; **Benveniste, J.**; Dorandeu, J.; Earith, D.;
 Lauret, O.; Picot, N.; Poilbarbe, P.
 Basic Radar Altimetry Toolbox & Tutorial

XY0755; EGU2007-A-04557; OS10-1WE5P-0755
Oliveira, P.B.; Nolasco, M.R.; Peliz, A.; Dubert, J.
 Upwelling intensification and relaxation off central Portu-
 gal in summer 2005 from satellite data and numerical models

XY0756; EGU2007-A-05364; OS10-1WE5P-0756
 Lehahn, Y.; d'Ovidio, F.; Dubroca, L.; Lévy, M.
 Recovering missing data in cloudy high resolution ocean
 color images using kriging

XY0757; EGU2007-A-06373; OS10-1WE5P-0757
 Barbosa, S. M.; Andersen, O.; Knudsen, P.
 Sea surface temperature and sea-level variability from T/P
 and JASON-1

XY0758; EGU2007-A-07382; OS10-1WE5P-0758
Zribi, M.; Hauser, D.; Dechambre, M.; Boutin, J.; Calvet, J.
 C.; Wigneron, J. P.; Reverdin, G.; Pellarin, T.; Skou, N.;
 Fanise, P.; CAROLS TEAM
 Combined airborne Radio-instruments for ocean and land
 studies (CAROLS)

XY0759; EGU2007-A-00398; OS10-1WE5P-0759
Kuchma, T.
 Oil spills monitoring using remote sensing

XY0760; EGU2007-A-00837; OS10-1WE5P-0760
Sergievskaia, I.A.

On nonlinearity of optical and radar methods for investiga-
 tions of surface wave variability

XY0761; EGU2007-A-01739; OS10-1WE5P-0761
Cardellach, E.; Rius, A.

New techniques to retrieve sea surface slopes' PDF from
 GNSS reflected signals

OS11 Temporal variability of ocean temperature (heat content) and salinity (freshwater content). (co-listed CL)

Convener: Levitus, S.
 Co-Convener(s): Rixen, M., Artale, V.
 Lecture Room D
 Chairperson: LEVITUS, S.

15:30–15:45; EGU2007-A-01554; OS11-1WE4O-001
Levitus, S.; Antonov, J.; Boyer, T.; Locarnini, R.; Garcia, H.;
 Mishonov, A.
 Warming of the World Ocean, 1955–2006

15:45–16:00; EGU2007-A-05862; OS11-1WE4O-002
Ivanov, L.M.; Melnichenko, O.V.; Margolina, T.M.
 Upper heat content of the North Atlantic obtained from Argo
 data, 1998–2007

16:00–16:15; EGU2007-A-01735; OS11-1WE4O-003
Korablev, A.; Pnyushkov, A.; Johannessen, O.M.; Alek-
 seev, G.; Smirnov, A.
 The Nordic Seas thermohaline system response to the
 large-scale atmospheric and advective anomalies

16:15–16:30; EGU2007-A-10950; OS11-1WE4O-004
Behera, S.; Yamagata, T.
 What Causes the Indian Ocean Warming?

16:30–16:45; EGU2007-A-04638; OS11-1WE4O-005
Maillard, C.; SeaDataNet Consortium
 SeaDataNet – a pan-european infrastructure for ocean and
 marine data management (solicited)

16:45–17:00; EGU2007-A-03578; OS11-1WE4O-006
Marullo, S.; Santoleri, R.; Guaracino, M.; Buongiorno
 Nardelli, B.; Artale, V.
 Sea surface temperature trends in the Mediterranean
 Sea: from interannual to decadal variations

17:00 END OF SESSION

OS11 Temporal variability of ocean temperature (heat content) and salinity (freshwater content). (co-listed CL) – Posters

Convener: Levitus, S.
 Co-Convener(s): Rixen, M., Artale, V.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: ARTALE, V.

XY0762; EGU2007-A-05438; OS11-1WE5P-0762
Jukes, M.; Murray, J.
 A high resolution analysis of sea-surface temperature

XY0763; EGU2007-A-05592; OS11-1WE5P-0763
Falina, A.; Sarafanov, A.; Sokov, A.; Demidov, A.
 Temperature and salinity variability of the subpolar North
 Atlantic water masses in the 60N section during the past
 decade

XY0764; EGU2007-A-03573; OS11-1WE5P-0764
McLeod, P.; **McDonagh, E.L.**; King, B.A.; Bryden, H.L.
Circulation, heat and volume transport at 36N in the Atlantic

XY0765; EGU2007-A-06498; OS11-1WE5P-0765
Cianca, A.; Rueda, M.J.; Llinas, O.
North Atlantic Central Water at both sides of the North Atlantic subtropical gyre: comparative view from time series studies.

XY0766; EGU2007-A-02170; OS11-1WE5P-0766
Ivchenko, V.; Danilov, S.; Sidorenko, D.; **Schroeter, J.**; Wenzel, M.; Aleynik, D.
Comparing the steric height in the Northern Atlantic with the satellite altimetry (solicited)

XY0767; EGU2007-A-05964; OS11-1WE5P-0767
Caniaux, G.; Prieur, L.; Giordani, H.; Paci, A.; Greiner, E.; Reverdin, G.
Subduction characteristics over the northeastern Atlantic during the POMME experiment (2000-2001)

XY0768; EGU2007-A-07650; OS11-1WE5P-0768
Vandermeirsch, F.; Charraudeau, R.; Bonnat, A.; Fichaut, M.; Maillard, C.; Gaillard, F.; Autret, E.
Bay of Biscay's temperature and salinity climatology

XY0769; EGU2007-A-03621; OS11-1WE5P-0769
Vargas-Yáñez, MVY; Moya, FMR; García, MJG; García-Martínez, MGM; Salat, JS; Pascual, JP; Fernandez, MLF
Long term changes in sea level and heat content in the western Mediterranean

XY0770; EGU2007-A-06082; OS11-1WE5P-0770
Somot, S.; Colin, J.; Rixen, M.
The Mediterranean sea interannual and decadal variability over the last 40 years: comparison of model results with observations (solicited)

XY0771; EGU2007-A-08713; OS11-1WE5P-0771
Palazov, A.; Solakov, D.; Stanchev, H.
Variability of temperature and salinity in the Western Black Sea

XY0772; EGU2007-A-04516; OS11-1WE5P-0772
Zhang, R.-H.; Busalacchi, A.
Decadal Changes of the Oceanic Entrainment Temperature (Te) in the Tropical Pacific and Its Role in Modulating ENSO

XY0773; EGU2007-A-04498; OS11-1WE5P-0773
Lombard, A.; Garric, G.; Cazenave, A.
Regional variability of sea level change using a global ocean model developed at MERCATOR Ocean

XY0774; EGU2007-A-05149; OS11-1WE5P-0774
Nanjundiah, R S; Vinaychandran, P N; Sooraj, K P
An Assessment of CCSM2 SST climatology over the northern Indian Ocean

XY0775; EGU2007-A-04741; OS11-1WE5P-0775
Marcus, S; **Dickey, J;** Willis, J
Non-steric sea level rise: Insights from interannual changes in Earth's dynamic oblateness (J2)

OS13 Sensitivity of marine ecosystems and biogeochemical cycles to climate change (co-listed BG,NP, CL) – Posters

Convener: Robinson, C.
Co-Convener(s): Salihoglu, B.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0776; EGU2007-A-03680; OS13-1WE5P-0776
Anikiev, V.; Dudarev, O.; Savelieva, N.; Charkin, A.
Variability of carbonate system parameters in estuaries and on the shelf of east coast of Asia

XY0777; EGU2007-A-00432; OS13-1WE5P-0777
Rojas, P. J.; Pabón, J. D.
The Colombian marine processes in the frame of global climate change

XY0778; EGU2007-A-03877; OS13-1WE5P-0778
Trick, C.G.; Cochlan, W.P.; Wells, M.L.; Betts, J.N.
Complexity of grow-out experiments: further iron stimulation of planktonic communities from the iron fertilized mesoscale patch in the western sub-Arctic Pacific

XY0779; EGU2007-A-10522; OS13-1WE5P-0779
Mouchet, A.; Driesschaert, E.; Fichet, T.
Future ocean biogeochemical cycles sensitivity and robustness with an Earth system model

XY0780; EGU2007-A-04217; OS13-1WE5P-0780
Salihoglu, B.
Modeling the effect of ENSO on the lower trophic level ecosystem of the Cold Tongue and the Warm Pool regions of the equatorial Pacific

XY0781; EGU2007-A-04303; OS13-1WE5P-0781
Salihoglu, B.; Garcon, V.; Oschlies, A.; Lomas, M.
Simulations of phytoplankton species and elemental cycles at BATS: Model configuration and biogeochemical dynamics

XY0782; EGU2007-A-03567; OS13-1WE5P-0782
Gangstø, R.; Gehlen, M; Joos, F
Modelling pelagic calcite and aragonite biogeochemistry

XY0783; EGU2007-A-01467; OS13-1WE5P-0783
Robinson, C.; The AMT Team
The Atlantic Meridional Transect Programme

XY0784; EGU2007-A-01469; OS13-1WE5P-0784
Robinson, C.; Gist, N.; Serret, P.; Fernandez, E.; Teira, E.; Tilstone, G.; Perez, V.; Woodward, M.
Determination and prediction of the temporal and spatial variability in plankton production and respiration in the Atlantic Ocean

XY0785; EGU2007-A-10922; OS13-1WE5P-0785
Williams, G.; Nicol, S; Wright, S; Bindoff, N; Marsland, S; Meijers, A; Klocker, A; Aoki, S; Iijima, Y
Physical oceanography and the marine ecosystem of the East Antarctic continental margin

XY0786; EGU2007-A-01288; OS13-1WE5P-0786
Navrotsky, V.V.; Pavlova, E.P.
Climate and ocean ecosystems: mechanisms of their changes and interrelations

OS14 Turbulent mixing in aquatic ecosystems - physical processes and ecosystem responses (co-listed in BG) – Posters

Convener: Rippeth, T.
Co-Convener(s): Huisman, J., Sharples, J.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0787; EGU2007-A-03669; OS14-1WE5P-0787
Popova, E.E.; Coward, A.C.; Nurser, G.A.; Cuevas, B. de; Anderson, T.R.
The role of the upper ocean short-term periodic and episodic mixing events in the global primary and new production

XY0788; EGU2007-A-07094; OS14-1WE5P-0788
Guadayol, O.; Peters, F.; Marras, C.; Berdalet, E.;
Roldán, C.; Gasol, J.M.; Massana, R.; Sabata, A.
Episodic meteorological and nutrient load events as drivers
of a NW Mediterranean coastal ecosystem.

XY0789; EGU2007-A-03849; OS14-1WE5P-0789
Ellingsen, I.H.; **McClimans, T.A.;** Slagstad, D.
Modelling the physical and biological response of a fjord to
a submerged buoyant discharge

Planetary and Solar System Sciences

PS1.0 Exploring the Solar System - Missions and Techniques

Convener: Muller, C.
Co-Convener(s): Falkner, P., Foing, B.
Lecture Room 11
Chairperson: MULLER, C.

15:30–15:45; EGU2007-A-05733; PS1.0-1WE4O-001
Falkner, P.
Latest Results on ESA's Technology Reference Studies

15:45–16:00; EGU2007-A-03720; PS1.0-1WE4O-002
van den Berg, M.; Cornara, S.; Jubineau, F.; Rodriguez-
Canabal, J.; Schoenmaekers, J.; Escoubet, P.; Taylor, M.;
Falkner, P.
Cross-scale technology reference study

16:00–16:15; EGU2007-A-10027; PS1.0-1WE4O-003
Foing, B.H.; ILEWG, &
Status report from International Lunar Exploration Working
Group

16:15–16:30; EGU2007-A-04899; PS1.0-1WE4O-004
Hiesinger, H.; Paulikas, G.; Pieters, C.
Activities of the Committee on "The Scientific Context for
the Exploration of the Moon"

16:30–16:45; EGU2007-A-00309; PS1.0-1WE4O-005
Crosby, N.B.
Heliospheric Exploration: Obstacles to Overcome (solicited)

16:45–17:00; EGU2007-A-01092; PS1.0-1WE4O-006
Zorzano, M.-P.; **Vazquez, L.**
Atmospheric information retrieval from Martian-based UV
measurements

17:00 COFFEE BREAK

Chairperson: FALKNER, P.

17:30–17:45; EGU2007-A-01704; PS1.0-1WE5O-001
Nakamura, M.; Satoh, T.; Imamura, T.; Suzuki, M.;
Abe, T.; Ishii, N.
Present Status of Planet-C in 2007

17:45–18:00; EGU2007-A-06298; PS1.0-1WE5O-002
Coradini, A.; De Sanctis, M.C.; Capria, M.T.; Bini, A.;
Ficai Veltroni, I.; Russell, C.T.
The Visible-IR mapping spectrometer of Dawn

18:00–18:15; EGU2007-A-06970; PS1.0-1WE5O-003
Sanmartin, J.R.; Charro, M.; Lorenzini, E.; Garrett, H.B.;
Bramanti, C.; Bombardelli, C.
Electrodynamic Tether at Jupiter. 1. Capture operation and
constraints

18:15–18:30; EGU2007-A-08782; PS1.0-1WE5O-004
Leitner, J. J.; Firneis, M. G.; Aittola, M.; Balint, T. S.;
Basilevsky, A. T.; Hashimoto, G. L.; Ivanov, M.; López, I.;
Stofan, E.; Sugita, S.
Landing-Site Areas for the Venus Entry Probe (VEP)
Initiative

18:30–18:45; EGU2007-A-08853; PS1.0-1WE5O-005
Srama, R.; SARIM Team, The
SARIM: SAmple Return of Interstellar Matter

18:45–19:00; EGU2007-A-10716; PS1.0-1WE5O-006
Spilker, T.; Lorenz, R.; Spencer, J.; Reh, K.; Elliott, J.; The
Titan/Enceladus Studies Team
Science missions to Saturnian satellites: how low can you
go?

19:00 END OF SESSION

PS2.0 Open Session on Terrestrial Planets

Convener: Ziethe, R.
Co-Convener(s): Benkhoff, J.
Lecture Room 11
Chairperson: BENKHOFF, J., ZIETHE, R.

8:30–8:45; EGU2007-A-01524; PS2.0-1WE1O-001
Milillo, A.
Modelling the environment of Mercury (solicited)

8:45–9:00; EGU2007-A-06180; PS2.0-1WE1O-002
Wurz, P.; Lammer, H.; Whitby, J.A.; Rohner, U.
Modelling of the Hermean Exosphere (solicited)

9:00–9:15; EGU2007-A-06410; PS2.0-1WE1O-003
Massetti, S.; Mangano, V.; Barbieri, C.; Leblanc, F.;
Milillo, A.; Mura, A.; Orsini, S.; Storini, M.
Space weather conditions at Mercury and possible related
effects on the exospheric sodium distribution

9:15–9:30; EGU2007-A-08624; PS2.0-1WE1O-004
Mura, A.; Milillo, A.; Orsini, S.; Lammer, H.; Wurz, P.;
Lichtenegger, H.; Khodachenko, M.; Massetti, S.
Numerical and analytical model of Mercury's exosphere:
dependence on surface and external conditions

9:30–9:45; EGU2007-A-00387; PS2.0-1WE1O-005
Mangano, V.; Milillo, A.; Mura, A.; Orsini, S.; De Ange-
lis, E.; Di Lellis, A. M.; Wurz, P.
The contribution of impulsive meteoritic impact vaporization
to the Hermean exosphere

9:45–10:00; EGU2007-A-02435; PS2.0-1WE1O-006
Ho, G.C.; Krimigis, S.M.; Gold, R.E.; McNutt, R.L.;
Mauk, B.H.
The Energetic Particle Spectrometer (EPS) on MESSENGER

10:00–10:15; EGU2007-A-05797; PS2.0-1WE1O-007
Mendillo, M.; International Mercury Watch (IMW)
International Mercury Watch (IMW): Preliminary results of
the 2006 campaign

10:15 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-02709; PS2.0-1WE2O-001
Christensen, U.R.
A deep dynamo explaining Mercury's weak magnetic field
(solicited)

10:45–11:00; EGU2007-A-05723; PS2.0-1WE2O-002
Benkhoff, J
 BepiColombo - The next step

11:00–11:15; EGU2007-A-06357; PS2.0-1WE2O-003
Erard, S.; Bezard, B.; Despan, D.; Doressoundiram, A.;
 Vernazza, P.; Cappacioni, F.; Forni, O.
 Resolved NIR spectra of Mercury

11:15–11:30; EGU2007-A-09996; PS2.0-1WE2O-004
Fraser, G. W.; THE MIXS TEAM
 The Mercury Imaging X-ray Spectrometer (MIXS) on
 BepiColombo

11:30–11:45; EGU2007-A-08784; PS2.0-1WE2O-005
Iafolla, V.; Lucchesi, D.M.; Nozzoli, S.; Santoli, F.;
 Fiorenza, E.; Peron, R.; Persichini, M.
 The Italian Spring Accelerometer (ISA) and the Bepi-
 Colombo mission to Mercury: the RSE (Radio Science
 Experiments) and ISA technical features

11:45–12:00; EGU2007-A-02079; PS2.0-1WE2O-006
Livi, S.A.; Ho, G.C.; Haggerty, D.
 Strofio: Exospheric Sampling of Mercury's Surface Compo-
 sition

12:00–12:15; EGU2007-A-11378; PS2.0-1WE2O-007
Matsumoto, H.; BepiColombo/MMO PWI Team
 Plasma / Radio Wave Observation plans for Mercury science:
 Plasma Wave Investigation (PWI) aboard BepiColombo /
 MMO

12:15 LUNCH BREAK

Chairperson: ZIETHE, R., BENKHOFF, J.

13:30–13:45; EGU2007-A-10477; PS2.0-1WE3O-001
Dehant, V.; Van Hoolst, T.; Mocquet, A.; Menvielle, M.;
 Lognonne, P.; Spohn, T.
 Mars rotation and deformation as seen from a lander or a
 spacecraft orbiting a planet. (solicited)

13:45–14:00; EGU2007-A-07773; PS2.0-1WE3O-002
Rosat, S.; Rosenblatt, P.; Trinh, A.; Dehant, V.; Neu-
 mann, G.
 Improvement of the Mars rotation parameters using the a pri-
 ori information embedded in MOLA altimeter crossover data

14:00–14:15; EGU2007-A-08641; PS2.0-1WE3O-003
Beuthe, M.; Dehant, V.
 Lithosphere with variable thickness: the case of a one-plate
 planet

14:15–14:30; EGU2007-A-08750; PS2.0-1WE3O-004
Pauer, M.; Èadek, O.; Breuer, D.; Spohn, T.
 Models of dynamic interior of Mercury with an elastic litho-
 sphere for the inversion of future gravity and topography data

14:30–14:45; EGU2007-A-02570; PS2.0-1WE3O-005
Kallenbach, R.; Bamert, K.; Hilchenbach, M.
 Isotopic abundance ratios of nitrogen and oxygen in the
 solar wind

14:45–15:00; EGU2007-A-11376; PS2.0-1WE3O-006
Kasaba, Y.; Fujimoto, M.; Takashima, T.; Matsuoka, A.;
 Hayakawa and MMO-SWG, H.
 Science Operation Concept based on "the MDP scheme" for
 BepiColombo/MMO

15:00 END OF SESSION

PS3.0 Outer planets and satellites (including David Bates Medal Lecture)

Convener: Coustenis, A.
 Co-Convener(s): Atreya, S.
 Lecture Room 4 (H)
 Chairperson: ATREYA, S.

15:30–15:45; EGU2007-A-02480; PS3.0-1WE4O-001
Orton, G.; Encrenaz, T.; Leyrat, C.; Puetter, R.; Mead-
 ows, V.; Burgdorf, M.
 Spatial Inhomogeneity in Thermal Infrared Images of Uranus
 and Neptune: The Context For Spitzer IRS Spectral Analysis

15:45–16:00; EGU2007-A-02505; PS3.0-1WE4O-002
Encrenaz, T.; Leyrat, C.; Orton, G.; Pantin, E.; Ferrari, C.
 The latitudinal temperature distribution in the stratosphere of
 Neptune as observed by VISIR/VLT infrared high-resolution
 imaging spectroscopy

16:00–16:15; EGU2007-A-02109; PS3.0-1WE4O-003
Baines, K.; Momary, T.; Roos-Serote, M.; Atreya, S;
 Brown, R.; Buratti, B.; Clark, R.; Nicholson, P
 Saturn's Polar Hexagon at depth: New images of stationary
 planetary waves in the North Polar Region by Cassini/VIMS
 (solicited)

16:15–16:30; EGU2007-A-06257; PS3.0-1WE4O-004
Shemansky, D.
 UVIS at Saturn (solicited)

16:30–16:45; EGU2007-A-04605; PS3.0-1WE4O-005
Krimigis, S
 Ring currents at Earth, Jupiter and Saturn: Dominance of
 internal plasma sources (solicited)

16:45–17:00; EGU2007-A-03124; PS3.0-1WE4O-006
Flasar, F. M.; Achterberg, R. K.; Conrath, B. J.; Schinder, P.
 J.; The Cassini CIRS and Radio Science Teams
 The dynamics and composition of Saturn's atmosphere
 (solicited)

17:00–17:15; EGU2007-A-07835; PS3.0-1WE4O-007
Atreya, S.K.; Bolton, S.; Encrenaz, T.; Mahaffy, P.; Nie-
 mann, H.; Owen, T.
 Formation of Jupiter and Saturn and their atmospheres:
 Clues from composition and thermochemistry (solicited)

17:15 COFFEE BREAK

Chairperson: ENCRENAZ, T.

17:30–17:45; EGU2007-A-10141; PS3.0-1WE5O-001
West, R
 Aerosol measurements of Saturn and their significance
 (solicited)

17:45–18:15; EGU2007-A-06329; PS3.0-1WE5O-002
Coradini, A.; Magni, G.
 The Formation of Jupiter and Saturn (David Bates Medal
 Lecture) (solicited)

18:15–18:30; EGU2007-A-09354; PS3.0-1WE5O-003
Rannou, P.; Montmessin, F
 Haze and cloud microphysic in Pluto atmosphere

18:30–18:45; EGU2007-A-09401; PS3.0-1WE5O-004
Young, E.F.; French, R.G.; Young, L.A.; Ruhland, C.R.;
 Buie, M.W.; Olkin, C.B.; Regester, J.; Shoemaker, K.
 Vertical structure in pluto's atmosphere from the 12 June
 2006 stellar occultation

18:45–19:00; EGU2007-A-02454; PS3.0-1WE5O-005
Waite, J.H.; Young, D.T.; Coates, A.; Crary, F.; Cravens, T.E.; Kasprzak, W.T.; Shemansky, D.; Coustenis, A.; Magee, B.; Westlake, J.
 Organic Chemistry at Titan (solicited)

19:00–19:15; EGU2007-A-02482; PS3.0-1WE5O-006
Kliore, A.J.; Nagy, A.F.; Flasar, F.M.; Schinder, P.J.; French, R.G.; Marouf, E.A.; Rappaport, N.J.
 New results from Cassini radio occultations of Titan's ionosphere

19:15 END OF SESSION

Seismology

SM1 Open session on seismology (including Beno Gutenberg Medal Lecture)

Convener: Thybo, H.
 Co-Convener(s): Romanelli, F.
 Lecture Room 4 (H)
 Chairperson: LARSEN, T.B.

8:30–8:45; EGU2007-A-07782; SM1-1WE1O-001
Pino, N.A.; Palombo, B.; Perniola, B.; Ventura, G.; Ferrari, G.
 Waveform analysis of a key seismic historical event in the southern Apennines: the 1930 Irpinia earthquake

8:45–9:00; EGU2007-A-04320; SM1-1WE1O-002
Presti, D.; **Orecchio, B.;** Falcone, G.; Neri, G.
 A method for seismogenic fault detection from hypocenter trends in critical network conditions

9:00–9:15; EGU2007-A-01707; SM1-1WE1O-003
Varga, P.
 History of early isoseismal maps

9:15–9:30; EGU2007-A-04530; SM1-1WE1O-004
Kraft, T.; Sebastian, H.
 Evidence for rain triggered seismicity at Mt Hochstaufen, SE Germany

9:30–9:45; EGU2007-A-08652; SM1-1WE1O-005
Webb, F.; Clayton, R.; Graham, N.; Jones, C.; Kedar, S.
 The Origin of Ocean Microseisms

9:45–10:00; EGU2007-A-06053; SM1-1WE1O-006
Visser, K.; Trampert, J.; Kennett, B.L.N.
 Global azimuthal anisotropic phase velocity maps for higher modes of Love and Rayleigh waves

10:00 COFFEE BREAK

Chairperson: THYBO, H

10:30–10:45; EGU2007-A-03541; SM1-1WE2O-001
Larsen, T.B.; Jorgensen, T.M.; Nettles, M.; Ahlstrom, A.; Kruger, J.; Hanka, W.; Ekstrom, G.
 Regional rumble: glacial earthquakes in Greenland

10:45–11:00; EGU2007-A-10269; SM1-1WE2O-002
Vallée, M.
 The Mw>8 earthquake pair in the Kuril (NorthWest Pacific) subduction zone : source processes and interaction

11:00–11:45; EGU2007-A-02483; SM1-1WE2O-003
Kennett, B.L.N.
 Understanding Subduction Zone Structure (Beno Gutenberg Medal Lecture) (solicited)

11:45 END OF SESSION

SM1 Open session on seismology (including Beno Gutenberg Medal Lecture) – Posters

Convener: Thybo, H.
 Co-Convener(s): Romanelli, F.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00
 Poster Area Hall A
 Chairperson: N.N.

A0236; EGU2007-A-00277; SM1-1WE5P-0236
Tsiapas, E.
 Earthquakes - Volcanoes (Causes and Forecast)

A0237; EGU2007-A-03776; SM1-1WE5P-0237
 Giardini, D; **van Eck, T.;** Bossu, R.; Wiemer, S; NERIES consortium
 Network of Research Institutes for Earthquake Seismology (NERIES):

A0238; EGU2007-A-10358; SM1-1WE5P-0238
 Pondrelli, S.; Salimbeni, S.; Morelli, A.; Ekström, G.
 Update of the European-Mediterranean Regional Centroid Moment Tensor (RCMT) Catalog

A0239; EGU2007-A-08898; SM1-1WE5P-0239
 Kokinou, E.; Panagiotakis, C.; Vallianatos, F.
 Seismic phase picking based on wave characteristics

A0240; EGU2007-A-05962; SM1-1WE5P-0240
Nahhas, M.S.; Khouri, A.; Barwick, D.; Al-zaabi, N.; Tirtrais, B.
 Removing near surface problems from seismic data

A0241; EGU2007-A-02127; SM1-1WE5P-0241
Sieminski, A.; Liu, Q.; Trampert, J.; Tromp, J.
 Sensitivity to anisotropy of finite-frequency body waves based upon adjoint methods

A0242; EGU2007-A-04312; SM1-1WE5P-0242
Eder, S.; Malservisi, R.; Plattner, C.
 Fault maturity and geodetic interpretations: how the 'spin up' cycle affects the interpretation of lithospheric viscosity and fault slip deficit

A0243; EGU2007-A-08733; SM1-1WE5P-0243
Maggi, A.; Rivera, L.; Rouland, D.
 Detailed seismicity of the southern Indian Ocean

A0244; EGU2007-A-06810; SM1-1WE5P-0244
 Pisani, A. R.; Melini, D.; Volpe, M.; Piersanti, A.
 Postseismic stress diffusion associated to Sumatra earthquake

A0245; EGU2007-A-04846; SM1-1WE5P-0245
Bagh, S.; Chiarabba, C.; Degori, P.; Agostinetti, N. P.
 Crustal structure of the Abruzzo Apennines (central Italy)

A0246; EGU2007-A-10384; SM1-1WE5P-0246
 Okeler, A.; **Gu, Y.J.;** Lerner-Lam, A.; Steckler, M.S.
 Shear velocity structure from surface wave modeling of southern Italy

A0247; EGU2007-A-00368; SM1-1WE5P-0247
 POPESCU, E.; RADULIAN, M.; **PLACINTA, A.O.;** POPA, M.; MOLDOVAN, I.A.; GRECU, B.
 High-frequency spectral shape of acceleration data recorded in case of Vrancea (Romania) intermediate-depth earthquakes

A0248; EGU2007-A-08718; SM1-1WE5P-0248
Michálek, J.; Fischer, T.; Boušková, A.
 Space-Time Distribution of microearthquake Activity near
 Nový Kostel of West Bohemia/Vogtland (central Europe)
 after the Year-2000 Swarm

A0249; EGU2007-A-05278; SM1-1WE5P-0249
Assinovskaya, B.; Karpinsky, V.
 Ladoga seismic observations

A0250; EGU2007-A-07845; SM1-1WE5P-0250
Lecocq, T.; Petermans, T.; Camelbeeck, T.
 Seismicity of the Ardenne (Belgium) : spatial distribution
 and implications in terms of active tectonics

A0251; EGU2007-A-08267; SM1-1WE5P-0251
Amorese, D.; Lagarde, J.-L.; Font, M.
 Accurate analysis of the distribution of epicenters in Western
 Provence and Eastern Languedoc (Southern France)

A0252; EGU2007-A-09863; SM1-1WE5P-0252
 Do, V.C.; Readman, P.W.; O'Reilly, B.M.; Hauser, F.
 Shear-wave splitting results from southwest Ireland: deep-
 source anisotropy revealed

A0253; EGU2007-A-00956; SM1-1WE5P-0253
Shahpasandzadeh, M.; Atakan, K.; Raisi, M.
 A reappraisal earthquake focal mechanisms and active
 faulting in the central Alborz mountains, Iran

A0254; EGU2007-A-09457; SM1-1WE5P-0254
Dinc Akdogan, A.N.; Thorwart, M.; Dzierma, Y.;
 Rabbel, W.; Flueh, E.; Gossler, J.; Taylor, W.; Alvarado, G.
 Seismicity of southern Nicaragua and northern Costa Rica :
 A combined offshore and onshore study

A0255; EGU2007-A-09521; SM1-1WE5P-0255
 Thorwart, M.; Dzierma, Y.; **Dinc Akdogan, A.N.;**
 Rabbel, W.; Flueh, E.; Taylor, W.; Alvarado, G.; Mora, M.
 Receiver function and non-volcanic tremor studies in Costa
 Rica

A0256; EGU2007-A-07136; SM1-1WE5P-0256
Wigger, P.; Kummerow, J.; Salazar, P.; Asch, G.; Moser, D.
 Microseismicity in the West Fissure fault system, Northern
 Chile

A0257; EGU2007-A-07281; SM1-1WE5P-0257
Duclos, C.; Bazin, S.; Crawford, W.; Feuillet, N.; Nerces-
 sian, A.; Singh, S.
 Analysis of "Les Saintes" (Guadeloupe) seismic crisis using
 ocean bottom seismometers (OBS)

SM6 Towards a European Reference Model

Convener: Morelli, A.
 Co-Convener(s): Trampert, J.
 Lecture Room 4 (H)
 Chairperson: N.N.

13:30–13:45; EGU2007-A-08309; SM6-1WE3O-001
Friederich, W.; Meier, T.; Legendre, C.; Lebedev, S.
 Towards a high-resolution 3D S-wave velocity model of the
 European upper mantle (solicited)

13:45–14:00; EGU2007-A-06454; SM6-1WE3O-002
 Fry, B.; **Boschi, L.;** Ekstrom, G.; Giardini, D.
 Multiple resolution dispersion tomography of Earth, Europe,
 and the Mediterranean

14:00–14:15; EGU2007-A-04119; SM6-1WE3O-003
Meier, U.; Curtis, A.; Trampert, J.
 A global Crustal Model constrained by fundamental Mode
 Surface Waves

14:15–14:30; EGU2007-A-07345; SM6-1WE3O-004
 Geissler, W. H.; **Sodoudi, F.;** Kind, R.
 The thickness of the European Lithosphere as seen by S
 receiver functions

14:30–14:45; EGU2007-A-09899; SM6-1WE3O-005
Valette, B.; Lesage, Ph.
 Evaluating uncertainties in mean reference Earth models at
 different scales

14:45–15:00; EGU2007-A-06768; SM6-1WE3O-006
Stich, D.; Morelli, A.
 Reflection of seismic surface waves at the Northern Apen-
 nines

15:00 END OF SESSION

SM6 Towards a European Reference Model – Posters

Convener: Morelli, A.
 Co-Convener(s): Trampert, J.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00
 Poster Area Hall A
 Chairperson: N.N.

A0258; EGU2007-A-03648; SM6-1WE5P-0258
Weidle, C.; Maupin, V.
 Regional surface-wave tomography for Norway and adjacent
 regions

A0259; EGU2007-A-03718; SM6-1WE5P-0259
PASSEQ, W.G.
 PASSEQ 2006-2008 (Passive Seismic Experiment in TESZ)
 - new international project to study the upper mantle struc-
 ture around the central part of TESZ

A0260; EGU2007-A-04098; SM6-1WE5P-0260
 Heuer, B.; Kaempfer, H.; Kind, R.; Geissler, W.H.; BOHEMA
 working group
 Detection of deep boundary between Saxothuringian and
 Moldanubian tectonic units (western Bohemian Massif,
 central Europe) by high resolution mapping of lithospheric
 thickness

A0261; EGU2007-A-05169; SM6-1WE5P-0261
Raileanu, V.; Radulian, M.; Ionescu, C.; Popa, M.;
 Tataru, D.
 Geological settings and crustal models for the seismological
 stations within the eastern part of Romania

A0262; EGU2007-A-08537; SM6-1WE5P-0262
Schivardi, R.; Morelli, A.
 How well can we model surface wave velocities in Europe?

A0263; EGU2007-A-08568; SM6-1WE5P-0263
Serretti, P.; Morelli, A.
 Recovery of three-dimensional slab-backarc structures in
 the Mediterranean region by nonlinear seismic travel time
 tomography

A0264; EGU2007-A-09846; SM6-1WE5P-0264
Legendre, C.; Lebedev, S.; Friederich, W.; Meier, T.
 Preliminary 3D S-wave velocity model of the European
 upper mantle from inversion of Surface and S waveforms.

SM17 Topography of the Earth and Planets: from the deep Earth and planetary interiors to the surface

Convener: Cloetingh, S.
 Co-Convener(s): Thybo, H., Faccenna, C., Mangold, N.
 Lecture Room 26
 Chairperson: GABRIELSEN, R.H. AND THYBO, H.

15:30–15:45; EGU2007-A-02628; SM17-1WE4O-001
 Grachev, A.F.; Kaban, M.K.
 High position of the Siberian Platform as a result of mantle underplating

15:45–16:15; EGU2007-A-09123; SM17-1WE4O-002
Thybo, H.; Nielsen, C.; Nielsen, L.; sandrin, A.
 Subsidence induced by magmatic activity (solicited)

16:15–16:30; EGU2007-A-03860; SM17-1WE4O-003
Ritter, J.R.R.; Landes, M.; Wawerzinek, B.; Readman, P.W.; O'Reilly, B.M.; Do, V.C.
 Lithosphere-Asthenosphere System Underneath Ireland

16:30–16:45; EGU2007-A-11455; SM17-1WE4O-004
de Vicente, G.; Vegas, R.
 Topography controlled by large scale distributed deformation along the western Africa-Eurasia limit: Tectonic constrains. (solicited)

16:45–17:00; EGU2007-A-05006; SM17-1WE4O-005
Pascal, C.; Olesen, O.; Slagstad, T.
 Is the anomalous topography of southern Norway compensated by a deep-seated thermal anomaly?

17:00 COFFEE BREAK

Chairperson: FACCENNA, C. AND CLOETINGH, S.

17:30–18:00; EGU2007-A-08538; SM17-1WE5O-001
Gabrielsen, R.H.; Faleide, J.I.; Pascal, C.; Olesen, O.
 The Norwegian branch of the TopoEurope initiative; scientific challenges and goals (solicited)

18:00–18:15; EGU2007-A-11697; SM17-1WE5O-002
 Neubauer, F.
 Neogene to Recent Motion of Adria, formation of the Friuli orocline, and deformation of Eastern Alps and northeastern Dinarides

18:15–18:45; EGU2007-A-08844; SM17-1WE5O-003
Matenco, L.; Andriessen, P.
 From Source to Sink: Quantification of mass transfer from mountain ranges to active sedimentary basins in the Danube basin – Black Sea system (solicited)

18:45–19:00; EGU2007-A-03561; SM17-1WE5O-004
Bada, G.; Horváth, F.; Fodor, L.; Szafián, P.; Ruszkiczay-Rüdiger, Zs.; Cloetingh, S.
 On the topography development of the Pannonian basin: results from geophysics, geomorphology, and active tectonic studies (solicited)

19:00 END OF SESSION

SM17 Topography of the Earth and Planets: from the deep Earth and planetary interiors to the surface – Posters

Convener: Cloetingh, S.
 Co-Convener(s): Thybo, H., Faccenna, C., Mangold, N.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 13:30–15:00
 Poster Area Hall A
 Chairperson: ARTEMIEVA, I.M.; AND BADA, G.

A0265; EGU2007-A-04227; SM17-1WE3P-0265
Tesauro, M.T.; Kaban, M.K.; Coetingh, S.C.
 A new lithosphere model as input for the European strength map

A0266; EGU2007-A-01591; SM17-1WE3P-0266
Cabral, J.; Cunha, P.; Martins, A.; Ribeiro, A.
 Late Cenozoic vertical tectonic displacements in mainland Portugal (West Iberia) (solicited)

A0267; EGU2007-A-03820; SM17-1WE3P-0267
Weidle, C.; Maupin, V.; Ritter, J.; Kværna, T.; Schweitzer, J.; Balling, N.; Thybo, H.; Faleide, J.I.
 MAGNUS (MANTle investiGations of Norwegian Uplift Structure) – a flying start into Topo Europe (solicited)

A0268; EGU2007-A-07327; SM17-1WE3P-0268
 Japsen, P.; Green, P.F.; Bonow, J.M.; **Chalmers, J.A.**
 New apatite fission-track data from Jotunheim-Sognefjord, Norway (solicited)

A0269; EGU2007-A-03972; SM17-1WE3P-0269
Babuska, V.; Plomerova, J.; Achauer, U.; Vescy, L.
 Western Bohemian Massif – long memory of mantle lithosphere fabric reflected in present-day geodynamic activity and surface topography (solicited)

A0270; EGU2007-A-06829; SM17-1WE3P-0270
 Dreyer, C.; **Glasmacher, U.A.;** Bauer, F.; Stockli, D.; Wagner, G.A.
 Pre- to post-rift low-temperature and denudation history of the Upper Rhine rift system, Germany (solicited)

A0271; EGU2007-A-04994; SM17-1WE3P-0271
Kurlovich, D.M.; Bogdanova, S.V.; Karabanov, A.K.
 The Cenozoic activity of the Polotsk-Kurzeme fault belt in the East European Craton and its influence on the topography

A0272; EGU2007-A-06158; SM17-1WE3P-0272
Raileanu, V.; Dinu, C.; Radulian, M.; Bala, A.; Diaconescu, V.; Popescu, E.; Popa, M.
 Crustal seismicity and the active fault systems in the SW of Romania

Soil System Sciences

SSS1 Mineralogical and geochemical records of weathering and pedoplasation: from spatial to temporal scales (co-listed in GMPV)

Convener: Gerard, M.
 Co-Convener(s): Trombino, L.
 Lecture Room 33
 Chairperson: GERARD, M.

8:30–8:45; EGU2007-A-03050; SSS1-1WE1O-001
Verrecchia, E.; Braissant, O.; Cailleau, G.; Dupraz, C.; Ferro, K.; Aragno, M.
 Mineralogical and biogeochemical record of weathering in tropical soils: the unusual oxalate-carbonate pathway (solicited)

8:45–9:00; EGU2007-A-00653; SSS1-1WE1O-002
Sedov, S.; Inozemtsev, S.; Dodonov, A.; Solleiro, E.
 Red soils in the base of the Quaternary pedosedimentary sequences in Mesoamerica and Eastern Europe: indicators of environmental change during the Pliocene-Pleistocene transition. (solicited)

9:00–9:15; EGU2007-A-07078; SSS1-1WE1O-003
Grathoff, G.
 Weathering mineralogy and geochemistry as a function of time in soils developed in moraines from Antarctica and the Sierra Nevada range and dune sands from Oregon (USA)

9:15–9:30; EGU2007-A-08829; SSS1-1WE1O-004
Zerboni, A.; Cremaschi, M.
 Rock varnish on the Messak plateau (Libyan Sahara): chronology of weathering process

9:30–9:45; EGU2007-A-06212; SSS1-1WE1O-005

Rellini, I.; Trombino, L.

Micromorphological and mineralogical aspects of “plinthitic paleosols” in the mediterranean region: examples from the coast of western Liguria (northern Italy).

9:45–10:00; EGU2007-A-03191; SSS1-1WE1O-006

Beauvais, A.; Ruffet, G.; Colin, F.

Cenozoic evolution of West Africa scenery from cryptomelane ⁴⁰Ar-³⁹Ar dating

10:00 END OF SESSION

SSS1 Mineralogical and geochemical records of weathering and pedoplasation: from spatial to temporal scales (co-listed in GMPV) – Posters

Convener: Gerard, M.

Co-Convener(s): Trombino, L.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Hall A

Chairperson: N.N.

A0273; EGU2007-A-01468; SSS1-1WE5P-0273

De Vleeschouwer, F.; van Vliët-Lanoé, B.; Fagel, N.; Richter, T.; Boës, X.

Development and application of high resolution petrography on resin-impregnated Holocene peat columns to detect and analyse tephras, cryptotephras, and weathered materials

A0274; EGU2007-A-00568; SSS1-1WE5P-0274

Nicosia, C.; Azevedo, M.T.; Favaretto, S.; Miola, A.; Mozzi, P.; Nunes, E.; Sostizzo, I.

Micromorphological and mineralogical characters of the Entre Valas SEV coring (Santarém, Portugal): evolution from a transitional to a continental sedimentary environment during the Holocene.

A0275; EGU2007-A-05388; SSS1-1WE5P-0275

Trombino, L.

Micromorphological approach for reconstructing the palaeoenvironment of Tell Mishrifeh (Central Syria): palaeoclimatic significance of a sinkhole pedogenetic fill.

A0276; EGU2007-A-11382; SSS1-1WE5P-0276

Zembo, I.; **Trombino, L.**; Bersezio, R.

Paleosols in a Pleistocene intermontane basin: a micromorphological approach to the study of the High Agri Valley (Southern Italy)

A0277; EGU2007-A-03152; SSS1-1WE5P-0277

Gerard, M.; Parisot, J.C.

Preliminary results on distribution and origin of magnesite crusts in New Caledonia.

A0278; EGU2007-A-06929; SSS1-1WE5P-0278

Etamé, J.; **Gérard, M.**; Bilong, P.; Suh, C.E.; Njeng, E.; Nyobe, J.B.; Manguelle, E.; Wackermann, J-M.

Behaviour of chemical elements in brown soils on complex nephelinite saprolites (Cameroon): impact of hydrothermal versus weathering processes.

A0279; EGU2007-A-09553; SSS1-1WE5P-0279

Fischer, C.; von Eynatten, H.; Wijbrans, J.

Age constraints to sulfide weathering of black shale by ⁴⁰Ar/³⁹Ar dating of jarosite

A0280; EGU2007-A-02493; SSS1-1WE5P-0280

Kim, S.Y.; Lee, J.H

Soil geochemical characteristics of the copper mineralized zone of the Tamadue area, central Sulawesi, Indonesia.

A0281; EGU2007-A-02110; SSS1-1WE5P-0281

Takemura, T.; Takahashi, M.; Oda, M.

Stereologically based 3D fabric analysis for geomaterials using X-ray CT images

A0282; EGU2007-A-00848; SSS1-1WE5P-0282

HAOUZI, A.; BELARBI, H.

Study of hydrated Na and Ca Montmorillonite by thermally stimulated currents technique

A0283; EGU2007-A-09545; SSS1-1WE5P-0283

Khademi, H.; Arocena, J.M.

Occurrence of palygorskite in Tertiary sediments of Central Iran

A0284; EGU2007-A-10503; SSS1-1WE5P-0284

Szadorski, J.; **Weber, J.**; Lorenc, M.; Kocowicz, A.

Weathering products of plutonic acid rocks ranging from leucogranite to tonalite, located in Lower Silesia, SW Poland

A0285; EGU2007-A-00111; SSS1-1WE5P-0285

Abdel-Hafez, T

Geotechnical and mineralogical investigations at 15th May City, Cairo, Egypt.

SSS14 Improving spatial predictions of soil erosion (co-listed in HS & GM)

Convener: Brazier, R.

Co-Convener(s): Quinton, J.

Lecture Room 33

Chairperson: N.N.

13:30–13:45; EGU2007-A-01714; SSS14-1WE3O-001

Fiener, P.

Drivers of spatial and temporal variability of soil erosion within catchments—results from long-term field observations in Southern Germany

13:45–14:00; EGU2007-A-01436; SSS14-1WE3O-002

Peeters, I.; Van Oost, K.; Govers, G.; Verstraeten, G.; Rommens, T.; Poesen, J.

Improving Spatial Predictions of Soil Erosion: a Long-Term Perspective

14:00–14:15; EGU2007-A-00750; SSS14-1WE3O-003

Deasy, C.; Brazier, R.E.; Heathwaite, A.L.; Hodgkinson, R. Sediment transfer in small agricultural catchments at high-resolution spatial and temporal scales

14:15–14:30; EGU2007-A-10039; SSS14-1WE3O-004

Michaelides, K.; Ibraim, I.; Quine, T.; Esteves, M.; Nord, G. Experimental investigation of spatial patterns of soil erosion and deposition using multiple tracers

14:30–14:45; EGU2007-A-11353; SSS14-1WE3O-005

Anderson, K.; Kuhn, K; Croft, H

A novel remote sensing method for monitoring soil degradation: a combined spatial, spectral and directional approach.

14:45–15:00; EGU2007-A-10596; SSS14-1WE3O-006

The Soil Erosion Team, T; The Soil Erosion Team

An empirical soil erosion map for Europe

15:00 END OF SESSION

SSS14 Improving spatial predictions of soil erosion (co-listed in HS & GM) – Posters

Convener: Brazier, R.

Co-Convener(s): Quinton, J.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Hall A

Chairperson: N.N.

A0286; EGU2007-A-00042; SSS14-1WE5P-0286

Faulkner, H; Ruiz, J L; Boardman, J

A simple validated GIS expert system to map relative soil vulnerability and patterns of erosion during the muddy floods of 2000–2001 on the South Downs, Sussex, UK (cancelled)

A0287; EGU2007-A-00224; SSS14-1WE5P-0287

Londono, A.

Erosion in Arid Environments Derived from Pre-Columbian Agricultural Terraces in Southern Peru

A0288; EGU2007-A-00404; SSS14-1WE5P-0288

Giménez Suárez, M. C.; García Rodríguez, J. L.

Determination of LS Topographical Factor in the Models RUSLE and RUSLE3D Using GIS SEXTANTE (cancelled)

A0289; EGU2007-A-01604; SSS14-1WE5P-0289

Bänninger, D.; Brodbeck, M.; Meusburger, K.; Hohwieler, N.; Alewell, C.

Soil erosion measurement and prediction in an Swiss Alpine Valley

A0290; EGU2007-A-03475; SSS14-1WE5P-0290

Della Seta, M.; Del Monte, M.; Fredi, P.; Lupia Palmieri, E.

Denudation rate estimation in Central Italy: space-time variability at catchment and hillslope scales

A0291; EGU2007-A-06524; SSS14-1WE5P-0291

Lister, D.; Michaelides, K.; Wadham, J.; Wainwright, J.; Parsons, A

Small-Scale Erosion Dynamics in Different Vegetation Communities in Jornada, New Mexico

A0292; EGU2007-A-06831; SSS14-1WE5P-0292

Anderson, K.; Kuhn, N

Directional anisotropy in hyperspectral reflectance data: application to soil degradation monitoring.

A0293; EGU2007-A-07013; SSS14-1WE5P-0293

Kuhn, N.J.; Anderson, K.; Croft, H.L.

Geostatistical Analysis of near-range soil DEMS

A0294; EGU2007-A-07114; SSS14-1WE5P-0294

Croft, H.; Anderson, K.; Kuhn, N.J.

A new operational method for soil degradation monitoring: directional reflectance using an Ocean Optics spectroradiometer

A0295; EGU2007-A-08065; SSS14-1WE5P-0295

Mizugaki, S.; Onda, Y.; Koga, S.; Fukuyama, T.; Nanko, K.; Asai, H.; Nagamine, M.; Hiramatsu, S.

Contribution of forest floor to suspended sediment in conifer (Japanese cypress) plantation and broadleaf forest watersheds

A0296; EGU2007-A-08401; SSS14-1WE5P-0296

Pérez-Peña, J.V.; **Azañón, J.M.;** Azor, A.; González-Lodeiro, F.

Estimation of Pleistocene erosion rates based on basin volume reconstruction (Guadix-Baza basin, SE Spain)

A0297; EGU2007-A-09334; SSS14-1WE5P-0297

Scherer, U.; Zehe, E.; Träbing, K.

Predicting soil erosion in loess areas using a physically based erosion model

A0298; EGU2007-A-09596; SSS14-1WE5P-0298

Kázmér, M.; **Kóródy, G.;** Székely, B

Dendrochronological and GIS methods in monitoring areal erosion - Bátaapáti, Mecsek Hills, Hungary

A0299; EGU2007-A-09789; SSS14-1WE5P-0299

Catani, F.; Menci, S.; Moretti, S.

Soil erosion model parameterisation as a fundamental step in predicting erosion rates for different land use types

A0300; EGU2007-A-10023; SSS14-1WE5P-0300

Menci, S.; Keizer, J.; Malvar, M.; Moretti, S.; Nunes, J.; Catani, F.

Modelling interrill erosion in recently burnt forest areas

A0301; EGU2007-A-10485; SSS14-1WE5P-0301

Krueger, T.; Bilotta, G.S.; Brazier, R.E.; Quinton, J.N.; Freer, J.; Macleod, C.J.A.; Butler, P.; Granger, S.; Haygarth, P.M.

Variability in a replicated plot experiment on erosion of intensively managed grassland soils

A0302; EGU2007-A-08223; SSS14-1WE5P-0302

Kuhnert, M.; Güntner, A.; Zabel, K.; Chabrilat, S.; Haubrock, S.; Creutzfeldt, B.

Separation of rill and interrill erosion by qualitative and quantitative measurements in the field

SSS15 Soil erosion assessment and integrated approaches for remediation (co-listed in HS & GM)

Convener: Kirkby, M.

Co-Convener(s): Cerdan, O., Neto, S., Quinton, J., Roxo, M.

Lecture Room 33

Chairperson: N.N.

15:30–15:45; EGU2007-A-06758; SSS15-1WE4O-001

Evrard, O.; Vandaele, K.; Biélders, C.; van Wesemael, B.

Efficiency of pilot measures to mitigate muddy floods in a catchment of central Belgium

15:45–16:00; EGU2007-A-10246; SSS15-1WE4O-002

Leys, A.; Gillijns, K.; **Govers, G.**

Erosion and runoff reduction by conservation tillage: scale effects

16:00–16:15; EGU2007-A-01992; SSS15-1WE4O-003

Smets, T.; Poesen, J.

Effects of mulch cover on soil erosion by water at different spatial scales: a review

16:15–16:30; EGU2007-A-08040; SSS15-1WE4O-004

Cerdan, O.; Le Bissonnais, Y.; Desprats, JF; Surdyk, N; Souchere, V; Antony, V; King, C; Colmar, A; Arrouays, D

Expert system methodology to map soil erosion vulnerability in France at the regional scale (ca. 1000–10000 km²)

16:30–16:45; EGU2007-A-05731; SSS15-1WE4O-005

Nunes da Silva, F.; Neto, S

Changes in the territorial planning systems at river basin scale

16:45–17:00; EGU2007-A-05758; SSS15-1WE4O-006

Henriques, A.G.; **Neto, S.**

Discussion of the concept of water 'scarcity' – comparative study of different management strategies

17:00 END OF SESSION

SSS15 Soil erosion assessment and integrated approaches for remediation (co-listed in HS & GM) – Posters

Convener: Kirkby, M.

Co-Convener(s): Cerdan, O., Neto, S., Quinton, J., Roxo, M.
Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Hall A

Chairperson: N.N.

A0303; EGU2007-A-00742; SSS15-1WE5P-0303

Szajdak, L.; Gaca, W

The denitrification properties of soils under shelterbelts

A0304; EGU2007-A-00745; SSS15-1WE5P-0304

Meysner, T; **Szajdak, L**

Impact of the cropping systems on nitrogen compounds in the soil

A0305; EGU2007-A-03615; SSS15-1WE5P-0305

Szajdak, L.; Jaskulska, R

Impact of shelterbelts of different age on the chemical properties of soils and their function in agricultural landscape

A0306; EGU2007-A-04204; SSS15-1WE5P-0306

Stanchi, S.; Bernardi, A.; Oberto, E.; Freppaz, M.; Zanini, E

Plastic properties of some Alpine topsoils and bottomsoils

A0307; EGU2007-A-01996; SSS15-1WE5P-0307

Smets, T.; Poesen, J.; Fullen, M.A.; Booth, C.A.

Assessment of the effectiveness of Palm and simulated geotextiles in reducing runoff and interrill erosion on medium and steep slopes

A0308; EGU2007-A-03481; SSS15-1WE5P-0308

Zyczynska-Baloniak, I; **Szajdak, L.**; Jaskulska, R; Szczepanski, M

The function of small pond as biogeochemical barrier on decreasing of different kinds of nitrogen in agricultural landscape

A0309; EGU2007-A-00595; SSS15-1WE5P-0309

Pinto, J; Terceiro, P; **Susana, N**

Influence of the Alqueva water input in the Guadiana basin territory - Indicators system

A0310; EGU2007-A-08691; SSS15-1WE5P-0310

Ben-Hur, M.BH.

Soil mineralogy effects on runoff/rainfall ratio, soil erodibility and surface movement of pollutants

A0311; EGU2007-A-09809; SSS15-1WE5P-0311

Bertol, I.; Zoldan, W.A.; Zavaschi, E.; Bosetti, E.; Luciano, R.V.; **Paz González, A.**

Effect of soil tillage system on selected water erosion parameters

A0312; EGU2007-A-10685; SSS15-1WE5P-0312

Bienes, R.; Jimenez, L.; Marques, M.J.

Indetermination of the relation cause - effect between the climatic parameters and the loss of sediment by erosion

A0313; EGU2007-A-02533; SSS15-1WE5P-0313

m. Adelinet, m.A.; j. Fortin, j. F.; n. d'Ozouville, n.d.O; s. Violette, s. V.

The relationship between hydrodynamic properties and weathering of soils derived from volcanic rocks, Galapagos Islands (Ecuador)

A0314; EGU2007-A-02021; SSS15-1WE5P-0314

Lakota Jerièek, S.; Mikoš, M.

Analysis of Rainfall Aggressiveness and Rainfall Erosivity in Slovenia

A0315; EGU2007-A-02824; SSS15-1WE5P-0315

Daoudi, M.; Dewitte, O.; Gérard, P.; Cornet, Y.; Nicolas, J.; Abdellaoui, A.; Ozer, A.

Controlling factors of gully erosion in the upper part of the Isser River watershed

A0316; EGU2007-A-05270; SSS15-1WE5P-0316

Krasa, J.; Dostal, T.; Vrana, K.

Rain erosivity distribution in the Czech Republic

A0317; EGU2007-A-05754; SSS15-1WE5P-0317

Rôxo, M.J.; Mendes, P.; Santos, N.

Environmental sensitive areas facing desertification processes and public perception

A0318; EGU2007-A-06721; SSS15-1WE5P-0318

Ivanova, I.; Makarov, O.

The impact of chosen geofactors on the ecological condition, of urban soils in the economical appraisal of plots.

A0319; EGU2007-A-07295; SSS15-1WE5P-0319

Škoda, S.; Váchal, J.; Moravcová, J.; **Koupilová, M.**

The impact of chosen geofactors on surface and hypogeal runoff and landscape stability

A0320; EGU2007-A-08033; SSS15-1WE5P-0320

CAKMAK, O.; UYANIK, O.

Efficiency of Geophysical Methods (Electrical and seismic methods) on Determination the Problems in HEPP areas. Example of EREN-I HEPP

A0321; EGU2007-A-10563; SSS15-1WE5P-0321

Aucelli, P.P.C.; De Angelis, A.; **Roskopf, C.M.**

An integrated approach to evaluate soil erosion by means of direct field measurements and indirect estimations in a small Mediterranean catchment: the case of the Rivo basin (Molise, Southern Italy)

SSS19 Soil remediation processes: New insights into the role of mineral surfaces and bioaccessibility of residues (co-listed in BG) (including Philippe Duchafour Medal Lecture)

Convener: Burauel, P.

Co-Convener(s): Bech, J., Terzano, R., Medici, L.

Lecture Room 33

Chairperson: BECH, J. AND BURAUDEL, P.

10:30–11:00; EGU2007-A-11054; SSS19-1WE2O-001

Kabata-Pendias, A.

Trace Elements from Soil to Humans (Philippe Duchafour Medal Lecture) (solicited)

11:00–11:15; EGU2007-A-07787; SSS19-1WE2O-002

Miltner, A.; Kindler, R.; Richnow, H.H.; **Kaestner, M.**

Microbial contribution to the bound residue formation in soils

11:15–11:30; EGU2007-A-08554; SSS19-1WE2O-003

Lerch, T. Z.; Dignac, M.F.; Barriuso, E.; Mariotti, A.

Evidence of the biodegradation of 2,4-D bound residues in soil with ¹³C labelling techniques

11:30–11:45; EGU2007-A-00082; SSS19-1WE2O-004

Perelomov, L.; Yoshida, S.; Kachurin, N.

Forms of lanthanides sorbed by quartz and goethite in the presence of microorganisms

11:45–12:00; EGU2007-A-02658; SSS19-1WE2O-005

García-Rubio, A.; Gómez-Lahoz, C.; García Herruzo, F.; Vereda-Alonso, C.; **Rodríguez-Maroto, J.M.**; Esbrí, J.M.; Higuera, P.

Comparative study between flushing and electrokinetic in-situ remediation technologies applied to a mercury contaminated soil from Almadén (Spain).

12:00 END OF SESSION**SSS19 Soil remediation processes: New insights into the role of mineral surfaces and bioaccessibility of residues (co-listed in BG) (including Philippe Duchafour Medal Lecture) – Posters**

Convener: Burauel, P.

Co-Convener(s): Bech, J., Terzano, R., Medici, L.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Hall A

Chairperson: BURAUDEL, P. AND BECH, J.

A0322; EGU2007-A-00347; SSS19-1WE5P-0322

Fernández, J.D.; Burauel, P.; Schnitzler, F.; Romero, E.

Distribution and bioavailability of diuron residues in different fractions of soils amended with vermicomposts.

A0323; EGU2007-A-09763; SSS19-1WE5P-0323

Andreou, K.; Jones, K.; Semple, K.

Distribution of aged Pesticide Residues in Physical and Chemical fractions of two previously organically managed soils

A0324; EGU2007-A-11418; SSS19-1WE5P-0324

Modler, J.; Jablonowski, N. D.; Burauel, P.

Bioaccessibility of naturally aged 14C-atrazine residues in different soil size fractions

A0325; EGU2007-A-00370; SSS19-1WE5P-0325

Strijakova, E.R.; Vasilyeva, G.K.; Ivanova, E.G.

Influence of activated carbon on the behavior and bioavailability of PCB in soil

A0326; EGU2007-A-04871; SSS19-1WE5P-0326

El-Aswad, A.

Effect of organic amendments on aldicarb sorption-desorption and soil-bound residue

A0327; EGU2007-A-09264; SSS19-1WE5P-0327

Fritzsche, A.; Totsche, K.U.; Kögel-Knabner, I.

The role of iron (hydr)oxides for arsenic fixation, mobilisation, and transport - an evaluation by soil column experiments

A0328; EGU2007-A-08403; SSS19-1WE5P-0328

Matera, V.; Grisel, N.; Le Bayon, R.C.; Gobat, J.M.

Arsenic transfer in plants from naturally enriched soil

A0329; EGU2007-A-00333; SSS19-1WE5P-0329

Mavlyanov, Gani

Agricultural pollution of underground waters

A0330; EGU2007-A-00462; SSS19-1WE5P-0330

Terzano, R.; Spagnuolo, M.; Medici, L.; Dorriné, W.; Janssens, K.; Ruggiero, P.

Microscopic characterisation of zeolite particles synthesised in a soil polluted by Cu or Cd and stabilised with a coal fly ash-treatment

A0331; EGU2007-A-02143; SSS19-1WE5P-0331

Rennert, T.; Kaufhold, S.; Mansfeldt, T.

Identification of Fe-CN containing compounds in contaminated soil and wastes by FTIR spectroscopy

A0332; EGU2007-A-03142; SSS19-1WE5P-0332

Choi, J.; Shim, S.; Lee, W.

Enhanced reductive dechlorination of 1,1,1-trichloroethane by FeS with trace metals and sulfide

A0333; EGU2007-A-03348; SSS19-1WE5P-0333

Kónya, J.; Nagy, N.M.

Metal Ion Decontamination of Soils by Complex Forming Agents

A0334; EGU2007-A-03611; SSS19-1WE5P-0334

Pelfrène, A.; Gassama, N.; Grimaud, D.

Mobility of major- and minor- element and trace metals in soil solutions: distribution, speciation and controlling factors

A0335; EGU2007-A-04211; SSS19-1WE5P-0335

Behnken, J.; Riebe, B.; Bunnenberg, C.

Organoclays as Adsorbents for Anions: Selectivity and Ion-exchange Processes

A0336; EGU2007-A-06989; SSS19-1WE5P-0336

Nemes, Z.; Kónya, J.; Nagy, M. N.

Strontium desorption from bentonite surface by complex forming agents

A0337; EGU2007-A-08869; SSS19-1WE5P-0337

Rinaudo, C.; Cairo, S.; Gaiño, M.; Cossa, G.

Mechanisms of interaction between heavy metals (Cu, Zn, Cd and Pb) and clay minerals

A0338; EGU2007-A-11720; SSS19-1WE5P-0338

Bech, J.; Pérez-Sirvent, C.; Martínez-Sánchez, M.J.; Barba, A.; Oliva, J.; Vidal-Otón, J.

Fate and distribution of some persistent organochlorine compounds in horticultural soils located in Southeast of Spain

A0339; EGU2007-A-11721; SSS19-1WE5P-0339

Bech, J.; Pérez-Sirvent, C.; Martínez-Sánchez, M.J.; **García-Lorenzo, M.L.**

Mobilization of heavy metals in soils contaminated by wastes produced in an old fertilizer factory

Solar-Terrestrial Sciences**ST3 Open session on the Sun and heliosphere – Posters**

Convener: Forsyth, R.

Co-Convener(s): Bothmer, V.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: FORSYTH, R.

XY0790; EGU2007-A-00797; ST3-1WE3P-0790

Rabiu, A. B.; Amory-Mazaudier, C.; IRGGEA, the

Signatures and Potentials of International Heliophysical Year IHY in Africa

XY0791; EGU2007-A-07727; ST3-1WE3P-0791

Wintoft, P.; Lundstedt, H.; Wik, M.

Analysis of the dynamic memory of the sunspot number time series.

XY0792; EGU2007-A-06911; ST3-1WE3P-0792

Lepreti, F.; Vecchio, A.; Reardon, K.; Carbone, V.; Capparelli, V.

Analysis of velocity fluctuations in the solar atmosphere: relation between intermittency and chromospheric magnetic topology

XY0793; EGU2007-A-02907; ST3-1WE3P-0793

Tumalski, T.

The coronal Heating process

XY0794; EGU2007-A-05737; ST3-1WE3P-0794

Minkova, N.R.

Statistical modelling of solar plasma flow by considering finite instrumental resolution scale

XY0795; EGU2007-A-03001; ST3-1WE3P-0795

Podgorny, I. M.; Podgorny, A. I.

Solar Flare Model – 3D MHD Simulation and Comparison with Observation

XY0796; EGU2007-A-00720; ST3-1WE3P-0796

Bilenko, I. A.

Variations of magnetic field structure and solar eruptive events occurrence

XY0797; EGU2007-A-02772; ST3-1WE3P-0797

Prokudina, V.; Kuril'chik, V.

The observation of the hectometer radio bursts from the solar flares with Gamma-ray

XY0798; EGU2007-A-10227; ST3-1WE3P-0798

LI, X; Lu, Q.; Li, B.

Ion pick-up by finite amplitude Alfvén waves

XY0799; EGU2007-A-11069; ST3-1WE3P-0799

LI, B.; **LI, X.**

Propagation of non-WKB Alfvén waves in a multicomponent solar wind with differential ion flow

XY0800; EGU2007-A-06029; ST3-1WE3P-0800

Stverak, S.; Maksimovic, M.; Travnicek, P.; Fazakerley, A.; Marsch, E.; Scime, E.

Electron Strahl properties in the solar wind: Helios, Cluster and Ulysses Observations

XY0801; EGU2007-A-04552; ST3-1WE3P-0801

Viñas, A. F.; Nieves-Chinchilla, T.; Goldstein, M. L.

Electron Anisotropy Constraints in the Solar Wind

XY0802; EGU2007-A-01986; ST3-1WE3P-0802

Vaivads, A.; Bale, S. D.; Maksimovic, M.; Eriksson, A. I.; André, M.; Blomberg, L. G.; Åhlén, L.; Chust, T.; Wahlund, J.-E.

Low frequency electric field and density fluctuation measurements on Solar Orbiter

XY0803; EGU2007-A-05727; ST3-1WE3P-0803

Hilchenbach, M.; Czechowski, A.; Kallenbach, R.

Energetic neutral atoms in the heliosphere

XY0804; EGU2007-A-04706; ST3-1WE3P-0804

Jian, L.; **Russell, C.**; Luhmann, J.; Skoug, R.; Steinberg, J.

The radial evolution of solar wind structure: Ulysses observations near 5 AU

XY0805; EGU2007-A-05370; ST3-1WE3P-0805

Vernova, E.S.; Tyasto, M.I.; Baranov, D.G.

Active longitudes and the magnetic field of the Sun

XY0806; EGU2007-A-02237; ST3-1WE3P-0806

Blanco, J.J.; Rodriguez-Pacheco, J.; Hidalgo, M.A.

The heliospheric current sheet local structure along the solar cycle 23

XY0807; EGU2007-A-06678; ST3-1WE3P-0807

Alanko-Huotari, K.; **Usoskin, I.G.**; Kovaltsov, G.A.; Mursula, K.

Cyclic variations of the heliospheric tilt angle and cosmic ray modulation

XY0808; EGU2007-A-04449; ST3-1WE3P-0808

Yermolaev, Yu.I.; Yermolaev, M.Yu.; Lodkina, I.G.; Nikolaeva, N.S.

Heliospheric Conditions Resulting in Magnetic Storms: Statistic Study

XY0809; EGU2007-A-05655; ST3-1WE3P-0809

Barkhatov, N.A.; Smirnova, A.S.; Snegirev, S.D.; Revunov, S.E.

Establishment of Perturbing Solar Streams Types by Neural Network Classification Method

XY0810; EGU2007-A-10521; ST3-1WE3P-0810

Heilig, B.

The behaviour of Pc3 pulsations during low-density solar wind events. Revisiting the problem: how the Pc3 pulsation activity relates to solar wind conditions?

XY0811; EGU2007-A-00063; ST3-1WE3P-0811

Hady, A. A.

Giant geomagnetic storms during the last three cycles and earth's climatic changes

XY0812; EGU2007-A-04451; ST3-1WE3P-0812

Dal Lago, A.; Schwenn, R.; Gonzalez, W. D.

Limb CME geometry using LASCO observations

XY0813; EGU2007-A-04147; ST3-1WE3P-0813

Lynnyk, A.; Vandas, M.

Magnetic clouds and their expansion

XY0814; EGU2007-A-04548; ST3-1WE3P-0814

Nieves-Chinchilla, T.; Viñas, A. F.; Ogilvie, K. W.; Bale, S. D.

Electron Velocity Distribution Function in Magnetic Clouds in the Solar Wind

XY0815; EGU2007-A-04537; ST3-1WE3P-0815

Nieves-Chinchilla, T.; Viñas, A. F.; Hidalgo, M. A.

Systematic Analysis of Magnetic Clouds

XY0816; EGU2007-A-09735; ST3-1WE3P-0816

Rees, A.; Balogh, A.; Forsyth, R.

Solar cycle and hemispheric trends in the structure of magnetic clouds observed by Ulysses.

XY0817; EGU2007-A-02086; ST3-1WE3P-0817

Gloeckler, G.; Fisk, L. A.

Ions Accelerated in the Turbulence of Shocks

XY0818; EGU2007-A-05311; ST3-1WE3P-0818

Bamert, K.; **Kallenbach, R.**; Hilchenbach, M.; Smith, C.W.; Wimmer-Schweingruber, R.F.

Ion acceleration and wave-particle interaction at the interplanetary shocks associated with the 20-21 January 2005 and the 2-6 November 2003 CME events: SOHO/HSTOF and ACE/MAG observations

XY0819; EGU2007-A-06862; ST3-1WE3P-0819

Klecker, B.; Möbius, E.; Popecki, M. A.; Kistler, L. M.

Ionic charge states of solar energetic particles: a survey of interplanetary shock related events

XY0820; EGU2007-A-10357; ST3-1WE3P-0820

Anagnostopoulos, G.; Louri, I.; Marhavilas, P.; Fronis, G.; Sarris, E.

Low energy (>40 keV) ions and electrons of possible Jovian origin in the outer Heliosphere (Ulysses) and near Earth (ACE) between days 290/2003 - 090/2004

XY0821; EGU2007-A-02198; ST3-1WE3P-0821

Firoz, K.A.

Diurnal Variation of Cosmic Ray Particles: Solar Modulation

XY0822; EGU2007-A-07981; ST3-1WE3P-0822

Gil, A.

The peculiarities of the quasi-periodic variation of the galactic cosmic rays intensity

XY0823; EGU2007-A-08026; ST3-1WE3P-0823

Modzelewska, R.

Features of the 27-day variation of galactic cosmic rays anisotropy

XY0824; EGU2007-A-02431; ST3-1WE3P-0824

Grimani, C.

Modelization of solar modulation and charge drift effect on galactic cosmic rays for future space missions

XY0825; EGU2007-A-05540; ST3-1WE3P-0825

Wawrzynczak, A.

Three dimensional model of the sporadic Forbush effect of galactic cosmic rays

Mon

Tue

Wed

Thu

Fri

XY0826; EGU2007-A-10496; ST3-1WE3P-0826
Flueckiger, E.O.; Buetikofer, R.; Moser, M.R.; Desorgher, L.
 The cosmic ray ground level enhancements on January 20, 2005, and December 13, 2006

XY0827; EGU2007-A-10591; ST3-1WE3P-0827
Siluszyk, M.
 Correlation between the galactic cosmic ray intensity variations and rigidity spectrum

XY0828; EGU2007-A-05602; ST3-1WE3P-0828
Tyasto, M. I.; Danilova, O. A.; Dvornikov, V. M.; Sdjbnov, V. E.
 Changing of cosmic ray cutoff rigidities at disturbed period in November 2004

XY0829; EGU2007-A-10607; ST3-1WE3P-0829
Alania, M.V.
 Rigidity spectrum of the galactic cosmic ray intensity variations during Sun' rotation period

XY0830; EGU2007-A-01998; ST3-1WE3P-0830
Fahr, H.J.; Siewert, M.
 Local spacetime dynamics and the PIONEER anomaly

ST4 Oscillations of the solar interior and atmosphere – Posters

Convener: Ballai, I.
 Co-Convener(s): Gizon, L.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 15:30–17:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0831; EGU2007-A-05740; ST4-1WE4P-0831
Selwa, M.; Ofman, L.
 3D MHD model of waves in a loop anchored in an realistic active region

XY0832; EGU2007-A-06932; ST4-1WE4P-0832
Zharkov, S.; Thompson, M.J.
 Comparative study of isolated sunspots using time-distance helioseismology

XY0833; EGU2007-A-06967; ST4-1WE4P-0833
Zharkov, S.; Thompson, M.J.
 Time-Distance investigation of the emerging Active Region

XY0834; EGU2007-A-06986; ST4-1WE4P-0834
Zharkov, S.; Thompson, M.J.
 A note on different definitions of Travel Time in p-mode Time-Distance

XY0835; EGU2007-A-05774; ST4-1WE4P-0835
Sheyner, O.; Fridman, V.
 Dynamic of microwave Emission Oscillations and Development of solar explosive Phenomenon

ST5 The 3D heliosphere at solar minimum – Posters

Convener: Marsden, R.
 Co-Convener(s): Bothmer, V., Harrison, R.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 10:30–12:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0836; EGU2007-A-02162; ST5-1WE2P-0836
Marsden, R. G.; Sanderson, T. R.; Malandraki, O.; Tranquille, C.; Forsyth, R. J.; McComas, D. J.
 Ulysses at solar minimum: energetic particle observations from the third southern polar pass

XY0837; EGU2007-A-03020; ST5-1WE2P-0837
Podgorny, A. I.; **Podgorny, I. M.**
 Interplanetary Magnetic Field Calculation in 3D MHD Numerical Simulations

XY0838; EGU2007-A-03598; ST5-1WE2P-0838
Nicol, R. M.; Chapman, S. C.; Dendy, R. O.
 Quantifying the turbulent scaling properties of the polar solar wind seen by Ulysses at solar minimum

XY0839; EGU2007-A-05687; ST5-1WE2P-0839
Issautier, K.; Meyer-Vernet, N.; Moncuquet, M.; Hoang, S.; Zouganelis, I.; **Maksimovic, M.**
 Radio Observations of High-Speed Solar Wind Electron Parameters Near Solar Minimum: Ulysses 2007 Fast Latitude Scan

XY0840; EGU2007-A-07152; ST5-1WE2P-0840
Erdos, G.; Balogh, A.; Smith, E.J.
 Comparison of magnetic sectors at mid-heliospheric latitudes in the late declining phases of solar cycles 22 and 23.

XY0841; EGU2007-A-08029; ST5-1WE2P-0841
Heber, B.; Struminsky, A.; Mueller-Mellin, R.; Gomez-Herrero, R.; Klassen, A.; Droege, W.; Malandraki, O.; Marsden, R.
 Observations of the December 2006 particle events at high latitudes with the KET aboard Ulysses

XY0842; EGU2007-A-05857; ST5-1WE2P-0842
Richardson, J.D.
 Voyager 2 at solar minimum

XY0843; EGU2007-A-10575; ST5-1WE2P-0843
Forsyth, R.J.; Balogh, A.; Smith, E.J.
 Solar cycle comparison of the heliospheric magnetic field underlying direction at high southern latitudes

XY0844; EGU2007-A-04462; ST5-1WE2P-0844
Schroeder, P.; Luhmann, J.; Davis, A.; Russell, C.; The IMPACT Instrument Leads
 STEREO in-situ data analysis

XY0845; EGU2007-A-05760; ST5-1WE2P-0845
Galvin, A.; Kistler, L.; Popecki, M.; Ellis, L.; Simunac, K.; Singer, K.; Gaidos, J.; Blush, L.; **Klecker, B.;** The PLASTIC Team
 The Plasma and SupraThermal Ion Composition (PLASTIC) instruments on the STEREO mission: Sneak preview of early suprathermal ion observations

XY0846; EGU2007-A-02850; ST5-1WE2P-0846
Möstl, C.; Farrugia, C.J.; Biernat, H.K.; Galvin, A.; Hu, Q.
 Two-Spacecraft Reconstruction of Magnetic Clouds in the Solar Wind

ST6 The time varying Sun

Convener: Amory-Mazaudier Christine, C.
 Co-Convener(s): Schröder, W., Gregori, G.
 Lecture Room 8
 Chairperson: CORNELISSEN, G.

15:30–16:00; EGU2007-A-02578; ST6-1WE4O-001
Egeland, A.
 Kristian Birkeland, the first space scientist (solicited)

16:00–16:30; EGU2007-A-00977; ST6-1WE4O-002
Gregori, G. P.
 Climate and the atmospheric electrical circuit (solicited)

16:30–16:45; EGU2007-A-01104; ST6-1WE4O-003
Lefebvre, S.; **Rozelot, J.P.;** Damiani, C.
 Variability of the solar shape (solicited)

16:45–17:00; EGU2007-A-00076; ST6-1WE40-004
Hady, A. A.
 Analytical Study of solar activity sudden increases and Halloween storms of 2003 (solicited)

17:00 COFFEE BREAK

Chairperson: GREGORI, G.P.

17:30–17:45; EGU2007-A-10927; ST6-1WE50-001
Mursula, K.
 What does Long-term Geomagnetic Activity tell us about the Sun?

17:45–18:00; EGU2007-A-02584; ST6-1WE50-002
Hanslmeir, A.
 The time varying Sun (solicited)

18:00–18:15; EGU2007-A-00874; ST6-1WE50-003
pagaran, j; dikty, s; weber, m; burrows, j
 Two component parametrization of variations in solar UV-vis-SWIR radiation

18:15–18:30; EGU2007-A-01012; ST6-1WE50-004
Otsuka, K; Cornélissen, G; Halberg, F
 Chronomics of tree rings gauge climate change

18:30–18:45; EGU2007-A-10302; ST6-1WE50-005
Zharkova, V.V.; Zharkov, S.I.; Gavryuseva, E.V.
 Longitudinal and latitudinal asymmetries in sunspot and active region occurrences in the cycle 23 detected from the Solar Feature Catalogues

18:45–19:00; EGU2007-A-01184; ST6-1WE50-006
Tomic, A.; Vince, I.
 Sunspots Meridian Motion and the Swimming out of the Magnetic Tubes

19:00 END OF SESSION

ST7 Open session on the magnetosphere (including Hannes Alfvén Medal Lecture)

Convener: Milan, S.
 Lecture Room 15 (F2)
 Chairperson: N.N.

8:30–9:15; EGU2007-A-10639; ST7-1WE10-001
Carlson, C. W.
 Properties of the aurora as seen from FAST (Hannes Alfvén Medal Lecture) (solicited)

9:15–9:30; EGU2007-A-00812; ST7-1WE10-002
Facskó, G.; Kecskeméty, K.; Tátrallyay, M.; Erdős, G.; Daly, P. W.; Dandouras, I.
 An extended global study of hot flow anomalies using Cluster multi-spacecraft measurements

9:30–9:45; EGU2007-A-03019; ST7-1WE10-003
Lobzin, V. V.; Krasnoselskikh, V. V.; Bosqued, J.-M.; Pincon, J.-L.; Schwartz, S. J.; Dunlop, M.
 Nonstationarity and Reformation of High-Mach Number Quasiperpendicular Shocks: Cluster Observations

9:45–10:00; EGU2007-A-03223; ST7-1WE10-004
Kudela, K
 Energetic ions in the magnetosheath observed on Interball-1

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-04403; ST7-1WE20-001
Andreeova, K.; Prech, L.
 Tracing fast forward shocks into the Earth's magnetosphere

10:45–11:00; EGU2007-A-05607; ST7-1WE20-002
Tatrallyay, M.; Erdos, G.; Lucek, E.; Georgescu, E.; Dandouras, I.
 On the occurrence of mirror mode fluctuations in the terrestrial magnetosheath based on multipoint observations

11:00–11:15; EGU2007-A-07381; ST7-1WE20-003
Alleyne, H.; Balan, N.; Walker, S.; Lucek, E.; Reme, H.; Fazakerley, A. N.
 Compression of the Magnetosphere by CME clouds

11:15–11:30; EGU2007-A-02882; ST7-1WE20-004
Imber, S. M.; Milan, S. E.; Hubert, B.
 The auroral and ionospheric flow signatures of dual lobe reconnection

11:30–11:45; EGU2007-A-04698; ST7-1WE20-005
Trattner, K.J.; Petrinc, S.M.; Fuselier, S.A.
 Pulsed Reconnection at the Dayside Magnetopause

11:45–12:00; EGU2007-A-06786; ST7-1WE20-006
Fear, R. C.; Milan, S. E.; Fazakerley, A. N.; Owen, C. J.; Lucek, E. A.
 A statistical test of the Cooling model of reconnected field line motion

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2007-A-10175; ST7-1WE30-001
Vaivads, A.; Santol'k, O.; Stenberg, G.; Andr'e, M.; Owen, C. J.; Canu, P.; Dunlop, M.
 The source of whistler emissions at the dayside magnetopause

13:45–14:00; EGU2007-A-01223; ST7-1WE30-002
Lutsenko, V.N.; Gavrilova, E.A.; Grechko, T.V.
 Observation Statistics of Fine Dispersion Structures in Energetic Particle Spectra in Auroral Regions.

14:00–14:15; EGU2007-A-01883; ST7-1WE30-003
Hurtaud, Y.; Peymirat, C.; Richmond, A. D.
 Modelling seasonal and diurnal effects on the magnetospheric and ionospheric plasma dynamics

14:15–14:30; EGU2007-A-05260; ST7-1WE30-004
Sun, W.; Du, A.; Zhou, X.-Y.
 Quantitative Separation of the Directly-driven and Unloading Components: View from the Ionospheric Electric Potential

14:30–14:45; EGU2007-A-07172; ST7-1WE30-005
Savin, S.; Kuznetsov, E. A.; Amata, E.; Dunlop, M.; Genot, V.; Khotyaintsev, Yu.; Buechner, J.; Panov, E.; Blecki, J.; Asadchiy, A.
 Magnetic barrier generation between moving plasmas: evidence for Alfvénic collapse

14:45–15:00; EGU2007-A-07520; ST7-1WE30-006
Marklund, G.T.; Johansson, T.; Lynch, K.
 On the degree of ionospheric contribution to high-altitude auroral potentials using Cluster data

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-08808; ST7-1WE4O-001
Khotyaintsev, Yu.V.; Vaivads, A.; Retinò, A.; André, M.; Owen, C.J.; Nilsson, H.
Formation of The Inner Structure of a Reconnection Separatrix Region

15:45–16:00; EGU2007-A-09040; ST7-1WE4O-002
Stauning, P.
Magnetospheric response to solar wind dynamic pressure

16:00–16:15; EGU2007-A-00547; ST7-1WE4O-003
Kleimenova, N.
ULF Pc5 signature of the 2003 superstorms recovery phases

16:15–16:30; EGU2007-A-02412; ST7-1WE4O-004
Roeder, J.; Fennell, J.; Mulligan, T.; Korth, A.
Field-aligned energetic electrons during the storm of July 24, 2004: Cluster RAPID observations

16:30–16:45; EGU2007-A-04672; ST7-1WE4O-005
Zhou, X.; Rostoker, G.
Study of ring current asymmetry during intense storms

16:45–17:00; EGU2007-A-04793; ST7-1WE4O-006
Hubert, B.; Meurant, M.; Blockx, C.; Gérard, J.-C.; Milan, S.E.; Grocott, A.; Cowley, S.W.H
Internal and external control of shock-induced flux closure in the Earth magnetosphere: a statistical study.

17:00 COFFEE BREAK

Chairperson: N.N.

17:30–17:45; EGU2007-A-06056; ST7-1WE5O-001
Peng, F.; Shen, S.; Chen, H.; Xu, W.; Yeoman, T.K.; Wright, D.M.; Wang, D.; Zhang, X.
Frequency-time analysis on geomagnetic ULF disturbances during magnetic storm in Mar. 1989

17:45–18:00; EGU2007-A-06743; ST7-1WE5O-002
Voros, Z.; Nakamura, R.; Baumjohann, W.; Runov, A.; Volwerk, M.; Asano, Y.; Jankovicova, D.; Lucek, E.; Klecker, B.
Turbulence in the Earth's plasma sheet associated with reconnection and bursty bulk flows

18:00–18:15; EGU2007-A-06984; ST7-1WE5O-003
Grigorenko, E.E.; Hirai, M.; Hoshino, M.; Mukai, T.; Zelenyi, L.M.
Signatures of quasi-steady and inductive ion acceleration in the distant magnetotail: Geotail observations.

18:15–18:30; EGU2007-A-10483; ST7-1WE5O-004
Gannon, J.L.; Onsager, T.; Singer, H
GOES-11 Pitch Angle Distribution Analysis of Energetic Magnetospheric Electron During Storm Recovery Phase

18:30–18:45; EGU2007-A-10904; ST7-1WE5O-005
Zong, Q.G.; **Fu, S.Y.**; Korth, A.; Daly, P.
BBFs with Rich Ionospheric Oxygen Ions Observed by Cluster and Double Star

18:45–19:00; EGU2007-A-07110; ST7-1WE5O-006
Laakso, H.; Perry, C.; Taylor, M.; Escoubet, P.
Cluster Active Archive

19:00 END OF SESSION

ST14 Modelling and measurements of ionospheric parameters influencing radio systems

Convener: Laštovička, J.
Co-Convener(s): Bourdillon, A., Zolesi, B.
Lecture Room 8
Chairperson: LASTOVICKA, J.

8:30–9:00; EGU2007-A-02683; ST14-1WE1O-001
Cander, Lj.
Ionospheric studies and SWWT (solicited)

9:00–9:30; EGU2007-A-04656; ST14-1WE1O-002
Reinisch, B.; Nsumei, P.; Song, P.; Huang, X.
Modeling the Polar Cap Topside Ionosphere (solicited)

9:30–9:45; EGU2007-A-07642; ST14-1WE1O-003
Nava, B.; Coisson, P.; Radicella, S.M.
A new version of the NeQuick ionosphere electron density model

9:45–10:00; EGU2007-A-07623; ST14-1WE1O-004
Luntama, J.-P.; Kauristie, K.
Calculation of TEC map assisted ionospheric corrections for single frequency GNSS applications

10:00 COFFEE BREAK

Chairperson: CANDER, L.

10:30–10:45; EGU2007-A-01858; ST14-1WE2O-001
Ilyushin, Ya.A.
Fluctuations of the GPS signals on the tangential paths in the low terrestrial atmosphere: influence of the small-scale structure.

10:45–11:00; EGU2007-A-01915; ST14-1WE2O-002
Singh, A. K.; Patel, K.; Prasad, S.; Singh, R. P.
Modelling of Ionospheric Scintillations Observed at Low Latitude

11:00–11:30; EGU2007-A-02342; ST14-1WE2O-003
Alfonsi, L.; Romano, V.; Bourdillon, A.; De Franceschi, G.; Le Huy, M.
Intense scintillation events observed at polar and equatorial latitudes (solicited)

11:30–11:45; EGU2007-A-06877; ST14-1WE2O-004
Materassi, M.; Alfonsi, L.; De Franceschi, G.; Mitchell, C.; Romano, V.; Spalla, P.
Detrend effect on the scalograms of GPS amplitude scintillation

11:45–12:00; EGU2007-A-07513; ST14-1WE2O-005
Coisson, P.; Nava, B.; Radicella, S.M.; Adeniyi, J.O.; Gopi Krishna, S.; Oladipo, O.A.; Ravindran, S.; Rama Rao, P.V.S
NeQuick bottomside analysis at low latitudes

12:00 LUNCH BREAK

Chairperson: ALFONSI, L.

13:30–13:45; EGU2007-A-00550; ST14-1WE3O-001
Mitic, M.; Cander, Lj.
Ionospheric variability over Grocka during low activity conditions

13:45–14:00; EGU2007-A-00673; ST14-1WE3O-002
Moshkova, V.
Estimation of foF2 variations using RTW sounding data

14:00–14:15; EGU2007-A-02724; ST14-1WE3O-003
Buresova, D.; **Lastovicka, J.**
Pre-storm electron density enhancement at middle latitudes

14:15–14:30; EGU2007-A-02650; ST14-1WE3O-004

Scotto, C.; Pezzopane, M.

Multiple reflections from the F2 layer as a cause of autoscaling error: a possible solution

14:30–14:45; EGU2007-A-00932; ST14-1WE3O-005

Kochetov, A.V.; Terina, G.I.

Modelling of Ionosphere Density Modification by Powerful Radio Wave

14:45–15:00; EGU2007-A-02131; ST14-1WE3O-006

Chakravarty, S. C.

A comparison of latitudinal mesospheric turbulence scattering of radar waves

15:00 END OF SESSION

Stratigraphy, Sedimentology and Palaeontology

SSP2 Sedimentary cyclicity in basinal deposits: possible mechanisms (co-sponsored by IAS) – Posters

Convener: Reijmer, J.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Hall A

Chairperson: N.N.

A0340; EGU2007-A-01248; SSP2-1WE5P-0340

Neuweiler, F.; Westphal, H.; Munnecke, A.

Rare earth element distribution patterns of Bahamian slope rhythmites, ODP 166 (solicited)

A0341; EGU2007-A-10918; SSP2-1WE5P-0341

Schwarz, J.; **Rendle-Buehring, R.H.;** Steinke, S.; Reijmer, J.J.G

Carbonate Nodules: Indicators for Early Diagenetic Alteration of Periplatform Carbonates. (solicited)

A0342; EGU2007-A-02702; SSP2-1WE5P-0342

Wilmsen, M.; Niebuhr, B.; de Wall, H.

Basinal marl-limestone cycles in the Upper Cenomanian of Langre, northern Spain – a multi-proxy approach

A0343; EGU2007-A-00003; SSP2-1WE5P-0343

Soua, M.; Chebbi, M. R.; Gharssalli, R.

Sea level change, microfacies and facies analyses of a basal transgressive system tract in North-central Tunisia: the Cenomanian-Turonian Bahloul Formation

A0344; EGU2007-A-07722; SSP2-1WE5P-0344

Bádenas, B.; García-Ramos, J.C.; **Aurell, M.;** Piñuela, L.; González, B.

Primary and diagenetic bedding at different-scales in hemipelagic successions (Pliensbachian of Asturias, NE Spain)

A0345; EGU2007-A-11118; SSP2-1WE5P-0345

Berra, F.; **Galli, M.T.;** Reghellin, F.; Torricelli, S.; Fantoni, R.

Constraints on the evolution of the Early Jurassic rifting in the western Southern Alps from stratigraphic analyses of the sedimentary succession of the Biellese area (Northern Italy)

A0346; EGU2007-A-05003; SSP2-1WE5P-0346

SZULC, J.

Tectonic controls of the high-frequency sedimentary cycles in the Upper Triassic Dachstein platform carbonates, Northern Calcareous Alps

A0347; EGU2007-A-03410; SSP2-1WE5P-0347

Küster, Y.; Schramm, M.; Leiss, B.

Different types of solid inclusions as indicators for the formation of laminated halite beds of Late Permian rock salt sequences

A0348; EGU2007-A-02511; SSP2-1WE5P-0348

Grygar, T.; Lojka, R.; Blahova, A.; Drabkova, J.

Was the lifetime of a tropical lake in Bohemian basins (central Europe) during Stephanian B (Upper Carboniferous) driven by Milankovitch-like orbital forcing?

A0349; EGU2007-A-05333; SSP2-1WE5P-0349

Amirov, E

Depositional cycles in upper absheron substage succession in the Western flank of the South Caspian depression

SSP6 Submarine Mass Movements and Their Consequences (co-listed in NH)

Convener: Urgeles, R.

Co-Convener(s): Locat, J., Mienert, J., Solheim, A., Krastel, S.

Lecture Room 32

Chairperson: N.N.

11:15–11:30; EGU2007-A-00319; SSP6-1WE2O-004

Winkelmann, D.; Stein, R.

Triggering of the Hinlopen/Yermak Megaslides in relation to climate history of Svalbard

11:30–11:45; EGU2007-A-06031; SSP6-1WE2O-005

Laberg, J.S.; Andreassen, K.

Submarine paleo-failure morphology on a glaciated continental margin from 3D seismic data

11:45–12:00; EGU2007-A-02591; SSP6-1WE2O-006

Su, C.; Ling, C.

The characteristics and provenance of earthquake triggered submarine landslide deposits in the southern Okinawa Trough

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2007-A-09563; SSP6-1WE3O-001

Callot, P.; Odonne, F.; Sempere, T.

Giant submarine collapse of a carbonate platform at the Cenomanian-Turonian transition: the Ayabacas Formation of southern Peru

13:45–14:00; EGU2007-A-00024; SSP6-1WE3O-002

Frey-Martínez, J.; Cartwright, J.; James, D.

Frontally confined versus frontally emergent submarine landslides: a 3D seismic characterisation

14:00–14:15; EGU2007-A-09867; SSP6-1WE3O-003

Bellonia, A.; Budillon, F.; **Trincardi, F.;** Iorio, M.; Verdicchio, G.; Ascoli, A.; Marsella, E.

Licosa submarine slide, Eastern Tyrrhenian margin: characterization of a possible weak layer

14:15–14:30; EGU2007-A-08957; SSP6-1WE3O-004

Dan, G.; Savoye, B.; Sultan, N.; Cattaneo, A.; Gaullier, V.; Déverchère, J.; Yelles, K.

Characterization of earthquake-induced landslides from swath bathymetry, sediment cores and high resolution side-scan sonar images (Algiers area, Algerian margin, SW Mediterranean)

14:30–14:45; EGU2007-A-00457; SSP6-1WE30-005
Urgeles, R.; Locat, J.; Flemings, P.B.; Behrmann, J.; John, C.M.; Expedition 308 Shipboard Scientific Party
 Mechanisms leading to overpressure and slope instability in the Gulf of Mexico continental slope

14:45 END OF SESSION

SSP6 Submarine Mass Movements and Their Consequences (co-listed in NH) – Posters

Convener: Urgeles, R.
 Co-Convener(s): Locat, J., Mienert, J., Solheim, A., Krastel, S.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00
 Poster Area Hall A
 Chairperson: N.N.

A0350; EGU2007-A-02668; SSP6-1WE5P-0350
Vanneste, M.; Harbitz, C.B.; De Blasio, F.V.; Glimsdal, S.; Mienert, J.; Elverhøi, A.
 Mass-Transport Deposits from the Hinlopen Slide, Arctic Ocean - Their Geomorphology, Slide Dynamics and Tsunami Potential

A0351; EGU2007-A-01953; SSP6-1WE5P-0351
Winkelmann, D.; Stein, R.
 The Hinlopen/Yermak Megaslides (north of Svalbard, Arctic Ocean): Size, Timing and Dynamic of an exceptional Submarine Slide

A0352; EGU2007-A-04132; SSP6-1WE5P-0352
Yang, S.L.; Solheim, A.; Forsberg, C.F.
 Comparison of sediment properties from two geological settings

A0353; EGU2007-A-10779; SSP6-1WE5P-0353
Hafliðason, H.; Sejrup, H.P.; Brendryen, J.; Grasmø, K.
 The refined age of the giant Tampen Slide, Mid-Norwegian margin; evidence from marine and terrestrial records

A0354; EGU2007-A-10077; SSP6-1WE5P-0354
Gafeira, J.; Bulat, J.; Evans, D.
 Submarine mass movement in the North Sea Fan

A0355; EGU2007-A-09057; SSP6-1WE5P-0355
Trincardi, F.; Minisini, D.; Verdicchio, G.; Asioli, A.; Piva, A.
 Dating mass-transport deposits along continental margins affected by bottom currents

A0356; EGU2007-A-09430; SSP6-1WE5P-0356
 Lobkovsky, L.; Levchenko, O.; Merklin, L.; **Verzhbitsky, V.**
 Submarine slumping structures in the Quaternary deposits of the Northern and Western slopes of Derbent basin (Caspian Sea)

A0357; EGU2007-A-08265; SSP6-1WE5P-0357
Brune, S.; Babeyko, A.Y.; Sobolev, S.V.; Harig, S.; Androsova, A.; Behrens, J.
 Hazard assessment of underwater landslide-generated tsunamis for the Padang region, Indonesia

A0358; EGU2007-A-07917; SSP6-1WE5P-0358
Harders, R.; Brueckmann, W.; Feeser, V.; Kutterolf, S.; Hensen, C.; Moerz, T.
 Are ash layers the controlling factor on translational sliding offshore Central America?

A0359; EGU2007-A-08916; SSP6-1WE5P-0359
Urgeles, R.; Camerlenghi, A.; Ercilla, G.
 Scientific ocean drilling behind the assessment of geo-hazards from submarine slides

SSP7 Cenozoic basin evolution and uplift of the Paratethys basin system (co-listed in TS)

Convener: Wagreich, M.
 Co-Convener(s): Harzhauser, M., Mandic, O.
 Lecture Room 32
 Chairperson: N.N.

15:30–15:45; EGU2007-A-10497; SSP7-1WE4O-001
 Rifelj, H.; **Jelen, B.**
 Paratethys basins and their dynamics at its western end in Slovenia

15:45–16:00; EGU2007-A-03764; SSP7-1WE4O-002
Cosovic, V.; Drobne, K.; Simunic, A.; Turnsek, D.; Moro, A.
 Shallow Marine Benthic Communities in the Late Eocene Carbonate Platform Placed between the Eastern Alps and Dinarids (Central Slovenia, NW Croatia)

16:00–16:15; EGU2007-A-10286; SSP7-1WE4O-003
Schulz, H.-M.; Sachsenhofer, R. F.; Bechtel, A.
 Lower Oligocene organic-rich sediments in the Alpine Foreland Basin (Upper Austria): A model for syn- and postdepositional source rock features in the Paratethys

16:15–16:30; EGU2007-A-09802; SSP7-1WE4O-004
Mikes, T.; Báldi-Beke, M.; Kázmér, M.; Dunkl, I.; von Eynatten, H.
 Age and timing of flysch development in the Dinaride foreland basin system

16:30–16:45; EGU2007-A-02745; SSP7-1WE4O-005
Kvacek, Z.
 Novelities in macrofloristic correlation between the Paratethys and Bohemian Massif during the Miocene.

16:45–17:00; EGU2007-A-03932; SSP7-1WE4O-006
Dolákova, N.; Brzobohaty, R.; Hladilova, S.; Nehyba, S.
 Lower Badenian red algal limestones in the Carpathian Foredeep in Moravia, Czech Republic – reflection of basin paleogeography, tectonics and climate

17:00 COFFEE BREAK

Chairperson: N.N.

17:30–17:45; EGU2007-A-08680; SSP7-1WE5O-001
de Leeuw, A.; Mandic, O.; Kuiper, K.; Harzhauser, M.; Krijgsman, W.
 Constructing a chronostratigraphy for the Miocene Dinaride Lake System

17:45–18:00; EGU2007-A-05425; SSP7-1WE5O-002
Sztanó, O.; Magyar, I.; Horváth, F.
 Changes of water depth in Late Miocene Lake Pannon revisited: the end of an old legend

18:00–18:15; EGU2007-A-08886; SSP7-1WE5O-003
Leever, K.; Garcia-Castellanos, D.; Matenco, L.; Cloet- ingh, S.
 Re-establishing the connection between Central and Eastern Paratethys: incision of the Danube in the Iron Gates

18:15–18:30; EGU2007-A-08156; SSP7-1WE5O-004
Stoica, M.; Jipa, D.; Krijgsman, W.; Vasiliev, I.
 Palaeoenvironmental evolution of the Dacian Basin during the Messinian Salinity Crisis

18:30–18:45; EGU2007-A-07793; SSP7-1WE5O-005
Vasiliev, I.; Reichart, G.-J.; Davies, G.; Stoica, M.; Krijgs- man, W.
 Trace elements and strontium isotopic composition of late Mio-Pliocene molluscs and ostracods from the Carpathians foredeep of Romania

18:45–19:00; EGU2007-A-03559; SSP7-1WE5O-006
Utescher, T.; Bruch, A.A.; Francois, L.; Ivanov, D.; Mosbrugger, V.
 Vegetation and climate patterns in the Late Miocene of the Central and Eastern Paratethys in the context of palaeogeography

19:00 END OF SESSION

SSP8/CL43/CL33 Closing the gap between geological data and numerical modelling / Oxygen-18 in climate models, observations and palaeo-data (co-organized by CL)

Convener: Flecker, R.
 Co-Convener(s): Krijgsman, W., Paul, A., Hoffmann, G., Schmidt, G.
 Lecture Room 32
 Chairperson: N.N.

8:30–8:45; EGU2007-A-10419; SSP8/CL43/CL33-1WE1O-001
Valdes, P.J.

The future of deep time palaeo-climate modelling: bringing the models to the data. (solicited)

8:45–9:00; EGU2007-A-00816; SSP8/CL43/CL33-1WE1O-002

Eames, KAT; Matthews, AJ; Rowe, PJ
 Predicting the isotopic ratio of western European precipitation using an isotope trajectory model

9:00–9:15; EGU2007-A-10362; SSP8/CL43/CL33-1WE1O-003

Roche, D.M.; Donnadiou, Y.; Puc  at, E.; Paillard, D.
 Effect of changes in $\delta^{18}O$ content of the surface ocean on estimated sea surface temperatures in past warm climate

9:15–9:30; EGU2007-A-10458; SSP8/CL43/CL33-1WE1O-004

Tindall, J.; Valdes, P.J.; Flecker, R.
 Modelling Oxygen isotopes in the Eocene

9:30–9:45; EGU2007-A-06172; SSP8/CL43/CL33-1WE1O-005

Martin, C.; Bentaleb, I.; Tafforeau, P.
 Analytical and numerical $d^{18}O$ high-resolution signals comparison in rhinoceros enamel: implications for rainwater paleo-seasonal reconstructions

9:45–10:00; EGU2007-A-07922; SSP8/CL43/CL33-1WE1O-006

Kouwenhoven, T.J.; Ernst, S.R.; Duijnste, I.A.P.; van der Zwaan, G.J.
 Paleoenviromental data from benthic foraminifera: proxies and problems – the case of the Messinian of the Mediterranean

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-03267; SSP8/CL43/CL33-1WE2O-001

Meijer, P.Th.; Alhammoud, B.; KaramiArokhloo, M.P.
 Past circulation of the Mediterranean Sea: Applying a hierarchy of models (solicited)

10:45–11:00; EGU2007-A-04036; SSP8/CL43/CL33-1WE2O-002

Brachert, T.C.; Bosellini, F.R.; Reuter, M.; Vescogni, A.; Mertz-Kraus, R.
 Early Messinian aragonite event reveals high salinity variability prior to the “Messinian Salinity Crisis” (Late Miocene) in the Mediterranean region

11:00–11:15; EGU2007-A-08454; SSP8/CL43/CL33-1WE2O-003

Bickert, T.; Butzin, M.; Kuhnert, H.; Lohmann, G.
 Southern Ocean dynamics and Antarctic glaciation during the Miocene

11:15 END OF SESSION

SSP8/CL43/CL33 Closing the gap between geological data and numerical modelling / Oxygen-18 in climate models, observations and palaeo-data (co-organized by CL) – Posters

Convener: Flecker, R.
 Co-Convener(s): Krijgsman, W., Paul, A., Hoffmann, G., Schmidt, G.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Hall A
 Chairperson: N.N.

A0360; EGU2007-A-05399; SSP8/CL43/CL33-1WE5P-0360

Ridgwell, A.
 Bridging the model-data divide: Use of sediment core modeling in interpreting the marine geologic record

A0361; EGU2007-A-09183; SSP8/CL43/CL33-1WE5P-0361

Lunt, D.J.; Valdes, P.J.; **Flecker, R.**
 Late Miocene model-data comparisons and challenges

A0362; EGU2007-A-07490; SSP8/CL43/CL33-1WE5P-0362

Tindall, J. C.; Valdes, P. J.; Sime, L.
 Modelling the 8.2Ka event using a fully coupled general circulation model including isotope tracers

A0363; EGU2007-A-09300; SSP8/CL43/CL33-1WE5P-0363

Debret, M.; Masson-Delmotte, V.; Petit, J.-R.
 Regional trends and variability during the Holocene in Greenland and Antarctica

A0364; EGU2007-A-02800; SSP8/CL43/CL33-1WE5P-0364

Lirer, F.; Harzhauser, M.; Pelosi, N.; Piller, W.E.
 Long-period variations in the Earth’s obliquity and their relation to third-order eustatic cycles during the Middle-Late Miocene record from Mediterranean and the Paratethys area

A0365; EGU2007-A-05385; SSP8/CL43/CL33-1WE5P-0365

Amirov, E
 O-18 isotope in upper absheron substage succession in the Western flank of the South Caspian depression

A0366; EGU2007-A-04116; SSP8/CL43/CL33-1WE5P-0366

Vimeux, F.; Ginot, P.; de Angelis, M.; Magand, O.; Pouyau, B.; Casassa, G.
 The San Valentin glacier (Chilean Patagonia): a potential high-elevation deep ice core site for paleoclimate studies. First results from a shallow ice core

A0367; EGU2007-A-03953; SSP8/CL43/CL33-1WE5P-0367

Vimeux, F; Cattani, O; Falourd, S; Gallaire, R; Fuertes, R
Daily isotopic composition of atmospheric water vapor in Bolivia: new insights into climate controls on isotopic composition of Andean precipitation and ice cores

A0368; EGU2007-A-08613; SSP8/CL43/CL33-1WE5P-0368

Lohmann, G.; Butzin, M.; Micheels, A.; Bickert, T.; Mosbrugger, V.
Strong meridional overturning circulation during the Late Miocene

A0369; EGU2007-A-01669; SSP8/CL43/CL33-1WE5P-0369

Risi, C; Bony, S

Influence of convective processes on the isotopic composition (O18 and D) of precipitation and atmospheric water in the tropics: a 1-D numerical study with Emanuel's convection scheme

A0370; EGU2007-A-04101; SSP8/CL43/CL33-1WE5P-0370

Flecker, R; Valdes, P; Pancost, R; Ellam, R

Quantifying continental-scale river run-off in the past: a tool for validating climate models

SSP20 Epeiric shelves - geochemistry, sedimentology, paleohydrology (co-sponsored by IAS) – Posters

Convener: Pratt, B.

Co-Convener(s): Aurell, M.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 10:30–12:00

Poster Area Hall A

Chairperson: N.N.

A0371; EGU2007-A-02185; SSP20-1WE2P-0371

Steuber, T.; Lokier, S.W.

Carbonate and evaporite precipitation reflected in the hydrochemistry of inter- to supratidal waters of a modern arid coast (Arabian Gulf, Abu Dhabi)

A0372; EGU2007-A-02176; SSP20-1WE2P-0372

Steuber, T.; Lokier, S.W.

Anthropogenic CO₂ recorded in the isotopic composition of a modern prograding carbonate ramp (Arabian Gulf, Abu Dhabi)

A0373; EGU2007-A-05392; SSP20-1WE2P-0373

Islam, H.; Mahmood, N; Chowdhury, S; Chowdhury, Z

Sedimentation pattern along the coastal water of the Bay of Bengal (BOB), Bangladesh

A0374; EGU2007-A-03120; SSP20-1WE2P-0374

Pratt, B.R.

Adverse effects of heating in ancient tropical epeiric seas

A0375; EGU2007-A-03205; SSP20-1WE2P-0375

Chardon, D.; Austin, J.A.; Cabioch, G.; Pelletier, B.; Saustrop, S.

Late Cenozoic sea level rise from clastic slope sedimentation to barrier reef installation: seismic imaging of upper margin sequences, New Caledonia continental ridge (Southwest Pacific)

A0376; EGU2007-A-05335; SSP20-1WE2P-0376

Malkin, B. V.

Calibration of Upper Cretaceous sea level transgression peaks by method of vertical-motionless reference points in epeiric seas sedimentary cover (East European platform).

A0377; EGU2007-A-08830; SSP20-1WE2P-0377

Ipas, J.; Bádenas, B; Aurell, M

From peritidal to open marine, from carbonates to siliciclastics: different expression of sedimentary cycles (Tithonian, NE Spain)

A0378; EGU2007-A-06308; SSP20-1WE2P-0378

Bádenas, B.; Aurell, M.; Bosence, D.

Origin of high-frequency cycles on a Sinemurian epeiric platform: pulses of accommodation gain and lateral facies heterogeneities (NE Spain)

A0379; EGU2007-A-01328; SSP20-1WE2P-0379

Al-Juboury, A.; Al-Hadidy, A.

Paleozoic Shallow Epeiric Seas of Iraq: Sedimentologic and Basin Evolution Study

A0380; EGU2007-A-08045; SSP20-1WE2P-0380

Sovetov, J.K.

Middle Vendian postglacial sea transgressions and Ediacaran Metazoa expansion in the Siberian craton shelf

SSP23 The Messinian desiccation of the Mediterranean Sea, its causes, phenomena and consequences (co-listed in CL & TS) – Posters

Convener: Mart, Y.

Co-Convener(s): Gorini, C.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 10:30–12:00

Poster Area Hall A

Chairperson: N.N.

A0381; EGU2007-A-02325; SSP23-1WE2P-0381

Tamburini, F.; McKenzie, J.A.; Sprovieri, R.

Diachronous flooding in the Mediterranean region at the end of the Messinian salinity crisis

A0382; EGU2007-A-04868; SSP23-1WE2P-0382

Kirk-Davidoff, D.; Murphy, L; Mahowald, N; Otto-Bliesner, B

Modeling the Climate Implications of the Messinian Desiccation

A0383; EGU2007-A-06041; SSP23-1WE2P-0383

Sprovieri, R.; Di Stefano, E.; Bonomo, S.; Tamburini, F.; McKenzie, J.

The Messinian - Pliocene boundary in the north Italy regions

A0384; EGU2007-A-06648; SSP23-1WE2P-0384

Huebscher, C.; Cartwright, J.; Cypionka, H.; Krijgsman, W.; De Lange, G.; Robertson, A.; Suc, J.-P.; Urai, J.

Capturing a salt Giant – riser drilling perspectives for the Levantine Basin

A0385; EGU2007-A-10469; SSP23-1WE2P-0385

Govers, R.; Meijer, P.; Krijgsman, W.

Solid earth response to Messinian Salinity Crisis events

Tectonics and Structural Geology

TS1.1 The strengths and challenges of analogue and numerical models (co-listed in GD) – Posters

Convener: Buiters, S.

Co-Convener(s): Schreurs, G.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0847; EGU2007-A-10258; TS1.1-1WE3P-0847
Davaille, A.; Limare, A.; Vidal, V.; Vatteville, J.; Le Bars, M.; Carbonne, C.; Bienfait, G
 Imaging isotherms and velocity fields in convective viscous fluid

XY0848; EGU2007-A-05596; TS1.1-1WE3P-0848
Deubelbeiss, Y.; Kaus, B.J.P
 A comparison of numerical formulations for the Stokes equations with strongly variable viscosity

XY0849; EGU2007-A-09063; TS1.1-1WE3P-0849
Ebert, H.D.; Lavorante, L.P.
 Tensor3d: a computer graphics program to simulate 3d real-time deformation and visualization of geometric bodies

XY0850; EGU2007-A-03383; TS1.1-1WE3P-0850
Cubas, N.; Maillot, B.; Leroy, Y. M.
 Predicting sequences of thrusting in accretionary wedge based on the maximum rock strength

XY0851; EGU2007-A-03377; TS1.1-1WE3P-0851
Souloumiac, P.; Leroy, Y.M.; Krabbenhoft, K.; Maillot, B.
 Predicting stress in fault-bend fold by optimization

XY0852; EGU2007-A-05863; TS1.1-1WE3P-0852
Miyakawa, A.; Yamada, Y.; Matsuoka, T
 Study of interaction between wedge deformation and friction change in decollement zone by Distinct Element simulations.

XY0853; EGU2007-A-00589; TS1.1-1WE3P-0853
Garcia, V.H.; Cristallini, E.O.
 Numerical modeling of the relationships between erosion-sedimentation processes and neotectonic structures

XY0854; EGU2007-A-08566; TS1.1-1WE3P-0854
Deckert, H.; Seyferth, M.
 Dynamic decollement formation in high-resolution distinct-element models of accretionary wedges

XY0855; EGU2007-A-06378; TS1.1-1WE3P-0855
Rosenau, M.; Oncken, O.; Cailleau, B.; Hoth, S.; Kukowski, N.; Lohrmann, J.; Stange, M.; TIPTEQ Research Group, the
 Evaluating the earthquake machine: Strengths and limits of analogue seismotectonic simulations in megathrust settings

XY0856; EGU2007-A-01479; TS1.1-1WE3P-0856
Geyer, A.; Martí, J.; Folch, A.
 Reproducing collapse calderas processes: Analogue vs. numerical models

XY0857; EGU2007-A-09068; TS1.1-1WE3P-0857
Schreurs, G.; Buiter, S.; Ellis, S.; Osmundsen, P.T.
 Analogue and Numerical Models Investigating the Formation of Parallel-dipping Normal Fault Arrays

XY0858; EGU2007-A-11281; TS1.1-1WE3P-0858
Gac, S.; Geoffroy, L.; Callot, JP
 Analogue and numerical modelling of the soft point hypothesis

XY0859; EGU2007-A-09744; TS1.1-1WE3P-0859
Gressier, J.B.; Defosse, P.; Mourgues, R.
 Numerical modelisation of hydraulic fracturing in anisotropic cohesive material

XY0860; EGU2007-A-05391; TS1.1-1WE3P-0860
Yakovlev, F.
 "Similar" folds in theory and in nature – the comparison of two models by their application to the study of hinterland folds of Greater Caucasus

TS1.2 Quantitative Structural Geology: Comparison of model results with natural examples – Posters

Convener: Grasemann, B.
 Co-Convener(s): Schmid, D.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 13:30–15:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0861; EGU2007-A-08252; TS1.2-1WE3P-0861
Gómez-Rivas, E.; Bons, P.D.; Giera, A.; Carreras, J.; Druguet, E.; Evans, L.
 Strain and vorticity analysis using minor faults and associated drag folds

XY0862; EGU2007-A-06611; TS1.2-1WE3P-0862
Grasemann, B.; Wiesmayr, G.; Exner, U.
 Three-dimensional slip distribution and fault-drag: mechanical modelling of a natural fault system

XY0863; EGU2007-A-02953; TS1.2-1WE3P-0863
 Krawczyk, C.M.; Lohr, T.; Tanner, D.C.; Endres, H.; Samiee, R.; Trappe, H.; Oncken, O.; Kukla, P.A.
 Sub-/seismic structure and deformation quantification from 3D reflection seismics across different scales

XY0864; EGU2007-A-03448; TS1.2-1WE3P-0864
Toscani, G.; Di Bucci, D.; Ravaglia, A.; Seno, S.; Fracassi, U.; Valensise, G.
 Propagation of an inherited strike-slip fault through an undeformed cover: quantitative aspects from analogue modeling and applications.

XY0865; EGU2007-A-05652; TS1.2-1WE3P-0865
Yongjun, Z.; Chunan, T.; Zimin, Z.; Ruidong, P.
 Experimental study of forecasting rock burst in coal mine with infrared radiation

XY0866; EGU2007-A-05551; TS1.2-1WE3P-0866
BISTACCHI, A.; BITONTE, R.; BONETTO, F.; MASSIRONI, M.; ROZZO, G.
 3D modeling of gold-bearing quartz veins in the footwall of a major post-metamorphic normal fault (Aosta-Ranzola fault, Brusson, Valle d'Aosta)

XY0867; EGU2007-A-06612; TS1.2-1WE3P-0867
Jettestuen, E.; Mair, K.; Hazzard, JF
 Characterisation of contact forces and force chains in sheared granular systems

XY0868; EGU2007-A-08049; TS1.2-1WE3P-0868
Piana, F.; Cravero, M.; Ponti, S.; Tallone, S.; Balestro, G.; Morelli, M.
 Aggregated 3D simulation of "fracture ensembles"

XY0869; EGU2007-A-09198; TS1.2-1WE3P-0869
Rohrmoser, I.; Pelz, K.
 Comparison of analogue modeling results with pull-apart structures in the Neogene Fortuna basin (SE Spain)

XY0870; EGU2007-A-10235; TS1.2-1WE3P-0870
Gómez-Rivas, E.; Giera, A.
 Analogue modelling of ductile-to-brittle transition in viscoplastic anisotropic materials: influence of strength on shear fracture localization and network geometry

XY0871; EGU2007-A-10839; TS1.2-1WE3P-0871
Wellmann, J.F.; Charissé, T.; Bublitz, J.; Schill, E.
 3D geological modeling and geophysical inversion in a fault dominated regime for geothermal resource analysis

XY0872; EGU2007-A-09985; TS1.2-1WE3P-0872
Medvedev, S.; Braeck, S.; Fusseis, F.; Podladchikov, Y. Y.
 Development of shear zones by shear heating instability: analytical and numerical models and comparison to natural example

XY0873; EGU2007-A-10099; TS1.2-1WE3P-0873
Schill, E.; Wellmann, J.F.; Regenauer-Lieb, K.
 Shear zone pattern in the lower crust caused by indentation and its effect on the upper crustal geothermal resources

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 15:30–17:00

Poster Area Halls X/Y
 Chairperson: N.N.

XY0874; EGU2007-A-03411; TS1.2-1WE4P-0874
Leroy, Y.M.; Maillot, B.; Cubas, N.; Souloumiac, P.; Krabbenhoft, K.
 Selection of folding mechanisms based on the maximum rock strength

XY0875; EGU2007-A-08621; TS1.2-1WE4P-0875
Dabrowski, M.; Krotkiewski, M.; Schmid, D.W.
 Fold morphologies and effective mechanical properties in 3D

XY0876; EGU2007-A-09790; TS1.2-1WE4P-0876
Yakovlev, F.
 Common principles of construction of 3D structural model for sedimentary cover of the hinterland part of a thrust-folded belt and the results of its first application to the North-West Caucasus

XY0877; EGU2007-A-09726; TS1.2-1WE4P-0877
Yakovlev, F.; **Sim, L.**; Marinin, A.
 Tectonic paleostress fields and deformation state of nappe: comparison of theoretical models with natural data for elucidation of the formation mechanisms, example of Vorontsovsky overthrust (North-West Caucasus)

XY0878; EGU2007-A-11392; TS1.2-1WE4P-0878
Durney, D. W.
 Elementary spherical harmonic functions as an aid to solving coupled sliding, interface diffusion and incompressible straining flow around a sphere

XY0879; EGU2007-A-08821; TS1.2-1WE4P-0879
Schmid, D. W.
 Rigid polygons in shear

XY0880; EGU2007-A-00447; TS1.2-1WE4P-0880
 Carosi, R.; **Iacopini, D.**; Montomoli, C.; Edwards, M.A.; Grasemann, B.
 Constraints on three-dimensional vorticity analysis using the porphyroblast system: natural examples and theoretical discussion.

XY0881; EGU2007-A-08433; TS1.2-1WE4P-0881
Björk, T.; Schmid, D.
 Intrusion between rigid plates applied to flow between boudins

XY0882; EGU2007-A-08529; TS1.2-1WE4P-0882
Schmalholz, S.M.; Schmid, D.W.; Fletcher, R.C.
 Finite Amplitude Necking and Evolution of Pinch-and-Swell Structures in Power-Law Fluids

XY0883; EGU2007-A-02597; TS1.2-1WE4P-0883
 Ebner, M.; Koehn, D.; Renard, F.; Toussaint, R.
 Scaling of natural and simulated stylolites and their use as stress gouges

XY0884; EGU2007-A-07769; TS1.2-1WE4P-0884
Stüwe, K.
 Metamorphic field gradients - the best petrological evidence for overpressure we can get ?

XY0885; EGU2007-A-10238; TS1.2-1WE4P-0885
 Dabrowski, M.; **Podladchikov, Y.Y.**; Schmid, D.W.
 Overpressure induced by phase transformation strain under far-field hydrostatic loads and why eclogites are often boudins with isotropic texture in their cores?

XY0886; EGU2007-A-01101; TS1.2-1WE4P-0886
Fletcher, R.C.
 Rheological parameters from interpretation of decollement folds

TS5.1 Failed vs. successful rifts: mechanisms for rift evolution

Convener: Van Wijk, J.
 Co-Convener(s): Corti, G., Meyer, R., Mauduit, T.
 Lecture Room 3
 Chairperson: VAN WIJK, J., CORTI, G.

13:30–13:45; EGU2007-A-07900; TS5.1-1WE3O-001
Huismans, R.S.; Beaumont, C.
 Sensitivity of rift mode to thermal-tectonic regime: what is the force required for lithospheric rupture?

13:45–14:00; EGU2007-A-02876; TS5.1-1WE3O-002
Manatschal, G.; Lavier, L.; Péron-Pinvidic, G.; Müntener, O.
 What controls continental breakup at magma-poor rifted margins? (solicited)

14:00–14:15; EGU2007-A-03197; TS5.1-1WE3O-003
Weinberg, R.F.; Regenauer-Lieb, K.; Rosenbaum, G.
 Mantle detachment faults and the break-up of cold continental lithosphere

14:15–14:30; EGU2007-A-05745; TS5.1-1WE3O-004
Ebinger, C.; Keir, D.; d'Acremont, E.; Leroy, S.; Tiberi, C.; Ayele, A.; Lewi, E.; Al-Lazki, A.; Stuart, G.
 Linking rifting episodes with evolution models: Lessons from the Afro-Arabian rift system (solicited)

14:30–14:45; EGU2007-A-05164; TS5.1-1WE3O-005
Geoffroy, L.; Leroy, M.; Gac, S.; Callot, J.P.
 Magmatism and extension at LIP-related volcanic rifts and volcanic margins (solicited)

14:45–15:00; EGU2007-A-11285; TS5.1-1WE3O-006
Sassi, W.; Mattioni, L.; Callot, J.-P.; Kallel, N.
 Stress regime evolution in small-scale experiments of inversion and transpression of rifted sedimentary basins

15:00 END OF SESSION

TS5.2/SSP24 Processes of rifting, sediment transport, fluid flow and biogenic activity: EUROMARGINS open session (co-organized by SSP) (co-listed in BG & CL)

Convener: Mienert, J.
 Co-Convener(s): Avril, B.
 Lecture Room 3
 Chairperson: N.N.

8:30–8:45; EGU2007-A-09462; TS5.2/SSP24-1WE1O-001
N. Zitellini, N.Z.; S. Diez, S.D.; F. D'Oriano, F.D.; E. Gracia, E.G.; L. Matias, L.M.; P. Terrinha, P.T.; L. Torelli, L.T.
 Neogene and Quaternary tectonic evolution of the Gulf of Cadiz-SW Portugal's offshore

8:45–9:00; EGU2007-A-03016; TS5.2/SSP24-1WE1O-002
Arzola, R.; Wynn, R.; Lastras, G.; Masson, D.; Weaver, P.
 Landslide and gravity flow features and processes in Nazaré and Setúbal Canyons, west Iberian margin

9:00–9:15; EGU2007-A-08759; TS5.2/SSP24-1WE1O-003
Costa, S.; Accettella, D.; Lastras, G.; Camerlenghi, A.; Acosta, J.; Canals, M.; Ceramicola, S.; Rebesco, M.; Wardell, N.

Shallow sediment deformation, sediment sliding and mud volcanoes in the SW Balearic continental margin and abyssal plain (SBAL-DEEP Cruise)

9:15–9:30; EGU2007-A-08465; TS5.2/SSP24-1WE1O-004
Yelles, A.K.; Déverchère, J.; Domzig, A.; Bracène, R.; Mercier de Lépinay, B.; Boudiaf, A.; Kherroubi, A.; Graindorge, D.; Bertrand, G.; Winter, T.

New evidences for offshore recent tectonic activity near Algiers: the Khayr-Al-Din bank, Algeria

9:30–9:45; EGU2007-A-06007; TS5.2/SSP24-1WE1O-005
Garcia, D.; Caja, M.A.; Marfil, R.; Remacha, E.; Mansuberg, H.; Morad, S.; Amorosi, A.

K-feldspar albitization in the Hecho Group turbidites (south-central Pyrenean Basin, Spain) and fluid-rock exchange models

9:45–10:00; EGU2007-A-04170; TS5.2/SSP24-1WE1O-006

Scheck-Wenderoth, M.; Maystrenko, Y.; Faleide, J. I.; Mjelde, R.; Horsfield, B.

The continent ocean transition at the Norwegian Margin - constraints from 3D structural and gravity modelling

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-07624; TS5.2/SSP24-1WE2O-001

Breivik, A. J.; Faleide, J. I.; Mjelde, R.; Tsikalas, F.
Timing of Continental breakup at the mid-Norwegian margin, Euromargins 2003 OBS Experiment

10:45–11:00; EGU2007-A-04950; TS5.2/SSP24-1WE2O-002

Hogan, K.; Dowdeswell, J.
Erosion, transport and deposition of sediment on the formerly glaciated north and east Svalbard continental margin.

11:00–11:15; EGU2007-A-10642; TS5.2/SSP24-1WE2O-003

Vanneste, M.; North Sea Fan Integrated Study Group
The North Sea Fan – an integrated slope stability study

11:15–11:30; EGU2007-A-09320; TS5.2/SSP24-1WE2O-004

Mastalerz, V.; de Lange, G. J.; Dählmann, A.; Feseker, T.
Origin and driving mechanisms of hydrocarbons-enriched mud expulsions at mud volcanoes in the Nile deep sea fan.

11:30–11:45; EGU2007-A-06128; TS5.2/SSP24-1WE2O-005

Depreiter, D.; Naudts, L.; Foubert, A.; Henriët, J.P.
Externally driven subsurface fluid pumping and consequences.

11:45–12:00; EGU2007-A-10122; TS5.2/SSP24-1WE2O-006

Boetius, A.; Foucher, J.P.; de Lange, G.; Duperron, S.; Dupre, S.; Kholeif, S.; Mascle, J.; Stadnitskaia, A.; Marfia, C.

Fluid flow associated ecosystems of the Nile deep-sea fan, Eastern Mediterranean (MEDIFLUX)

12:00 END OF SESSION

TS7.1 Orogen-basin coupling in intracontinental orogenic setting

Convener: Neubauer, F.

Co-Convener(s): Liu, Y.

Lecture Room 5 (I)

Chairperson: N.N.

13:30–13:45; EGU2007-A-03219; TS7.1-1WE3O-001

Robl, J.; Stüwe, K.; Hergarten, S.; Fritz, H.
Response of Drainage Systems on Himalayan Tectonics (solicited)

13:45–14:00; EGU2007-A-06473; TS7.1-1WE3O-002

Trifonov, V.; Artyushkov, E.
Collision and mountain building

14:00–14:15; EGU2007-A-03868; TS7.1-1WE3O-003

Cunningham, D.; Davies, S.; van Hinsbergen, D.; Roberts, N.

Intracontinental Transpressional Mountain Building and Coupled Basin Development in the Gobi Altai Region, Mongolia

14:15–14:30; EGU2007-A-02415; TS7.1-1WE3O-004

Henk, A.; Davaa, B.; Geerds, P.; Vogler, M.; Wemmer, K.
Structure and Evolution of the Tamtsag Basin / NE Mongolia

14:30–14:45; EGU2007-A-11556; TS7.1-1WE3O-005

Zulauf, G.; Friedl, G.; Klein, T.; Neubauer, F.; Romano, S.
From early Paleozoic rifting to Cenozoic subduction: Records of pre-Alpine and Alpine orogenic processes in the External Hellenides

14:45–15:00; EGU2007-A-06297; TS7.1-1WE3O-006

Dorobek, S.L.;
Foreland-basin carbonate systems: an overview

15:00 END OF SESSION

TS7.2 Arc-continent collision orogens (including Stephan Mueller Medal Lecture)

Convener: Brown, D.

Co-Convener(s): Huang, C.

Lecture Room 5 (I)

Chairperson: BROWN, D.

15:30–16:00; EGU2007-A-01143; TS7.2-1WE4O-001

Dewey, J.F.; Mange, M.A.; Ryan, P.D.
Arc-continent collision: orogeny and continental growth (solicited)

16:00–16:15; EGU2007-A-01437; TS7.2-1WE4O-002

Herrington, R.; Scotney, P.; Roberts, S.; Boyce, A.; Harrison, D.
Isotopic evidence for progressive contamination to magmas generated during arc-continent collision in the Banda arc and the relationship to gold-rich massive sulphide deposit formation

16:15–16:30; EGU2007-A-07914; TS7.2-1WE4O-003

Charvet, J.; Laurent-Charvet, S.; Shu, L.S.
Processes of arc-continent collision involved in the Paleozoic evolution of East Tianshan (NW China): accretion mode of the southern Central Asian Orogenic Belt.

16:30–17:00; EGU2007-A-02135; TS7.2-1WE4O-004

Wu, F.;
TAIGER (Taiwan Integrated GEodynamics Research) project for testing models of Taiwan orogeny (solicited)

17:00 COFFEE BREAK

Chairperson: RANERO, C.

17:30–17:45; EGU2007-A-07166; TS7.2-1WE5O-001
Jagoutz, O.; Burg, J.P.; Dawood, H.; Hussain, S.S.
 Preservation of pre-collisional structures in the accreted Kohistan island arc in the Pakistani Himalaya.

17:45–18:00; EGU2007-A-07111; TS7.2-1WE5O-002
Korja, A.; Heikkinen, P.; Lahtinen, R.
 Savo Arc-Karelian continent -collision – evidence of Paleoproterozoic continental growth in Fennoscandia from FIRE profiles

18:00–18:45; EGU2007-A-06769; TS7.2-1WE5O-003
Gee, D.G.
 From the Orogens of Europe to the Origin of the Arctic (Stephan Mueller Medal Lecture) (solicited)

18:45 END OF SESSION

TS7.5 The tectonics and dynamics of subduction: from shallow to deep processes

Convener: Phipps Morgan, J.
 Co-Convener(s): Vannucchi, P.
 Lecture Room 5 (I)
 Chairperson: N.N.

8:30–8:45; EGU2007-A-03336; TS7.5-1WE1O-001
Tilmann, FJ; Grevenmeyer, I; Gossler, J; Scherwath, M; Flueh, E; Dahm, T; TIPTEQ Research Group
 Evidence for fluids in crust and mantle of the outer rise offshore southern Chile from passive seismic monitoring

8:45–9:00; EGU2007-A-01492; TS7.5-1WE1O-002
 Bialas, J; Greinert, J; Barnes, P; Jegen, M; Klaucke, I; Krabbenhöft, A; **Netzeband, G L;** Pecher, I; Petersen, J; scientific party of SO 191, 1
 Cold vents and gas hydrates – first results from the cruise SO 191-1 to the Hikurangi Plateau offshore New Zealand

9:00–9:15; EGU2007-A-05342; TS7.5-1WE1O-003
Behrmann, J.H.; Stipp, M.
 Subducted crust and sediments – a source for intermediate depth earthquakes?

9:15–9:30; EGU2007-A-06565; TS7.5-1WE1O-004
Agard, P.; Yamato, P.; Jolivet, L.; Burov, E.
 Discontinuous exhumation of oceanic crust: insights from blueschists and eclogites into the subduction channel

9:30–9:45; EGU2007-A-01311; TS7.5-1WE1O-005
Heise, W.; Bibby, H.M.; Caldwell, T.G.
 Imaging magmatic Processes in the Taupo Volcanic Zone (New Zealand) with Magnetotellurics

9:45–10:00; EGU2007-A-10763; TS7.5-1WE1O-006
Abers, G.A.; Fischer, K.M.; Auger, L.; Syracuse, E.; Rychert, C.; Protti, J.M.; Gonzales, V.; Strauch, W.
 Imaging the arc source region in Central America: The TUCAN broadband seismic experiment

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-01438; TS7.5-1WE2O-001
Herrington, R.; Scotney, P; Roberts, S; Boyce, A; Harrison, D
 Isotopic evidence for progressive contamination to magmas generated during arc-continent collision in the Banda arc and the relationship to gold-rich massive sulphide deposit formation

10:45–11:00; EGU2007-A-00646; TS7.5-1WE2O-002
Schellart, W.P.; Freeman, J.; Stegman, D.R.; Moresi, L.; May, D.
 Slab width as the dominant factor in determining trench migration velocity and subduction zone curvature

11:00–11:15; EGU2007-A-07891; TS7.5-1WE2O-003
Pérez-Gussinyé, M.; Lowry, A.R.; Phipps Morgan, J.
 Spatial variations in the effective elastic thickness, T_e , along the Andes: implications for subduction geometry.

11:15–11:30; EGU2007-A-05404; TS7.5-1WE2O-004
Kaus, B.; Steedman, C.; Becker, T
 How to build mountain belts at passive continental margins? - insights from numerical and analytical modelling.

11:30–11:45; EGU2007-A-10776; TS7.5-1WE2O-005
Kusznir, N.J.; Kennedy, A.; Izarra, C.; Nippres, S.; Booth, S.
 Horizontal tectonic stress in lithosphere overlying subducting slab, dynamic topography and subduction mass balance

11:45–12:00; EGU2007-A-01894; TS7.5-1WE2O-006
Khristoforova, D. A.
 Heat flow and mantle convection in subduction zones

12:00 END OF SESSION

TS8.1 Tectonics and magmatism: Interactions from the grain- to the orogen-scale

Convener: Rosenberg, C.
 Co-Convener(s): Berger, A.
 Lecture Room 3
 Chairperson: N.N.

15:30–16:00; EGU2007-A-01456; TS8.1-1WE4O-001
Weinberg, R.F.; Mark, G.
 Melt extraction and migration during folding: an example from the Karakoram, India (solicited)

16:00–16:15; EGU2007-A-02378; TS8.1-1WE4O-002
 Caricchi, L.; Faccenda, M.; Burlini, L.; Ulmer, P.; Gerya, T.; Ardia, P.
 Increase of Viscosity and Shear Thinning: why do Crystals promote complex Rheological Behavior?

16:15–16:30; EGU2007-A-05389; TS8.1-1WE4O-003
Galland, O.; Cobbold, P. R.; de bremond d'Ars, J.; Hal-lot, E.
 Magma-controlled tectonics in compressional settings: insights from experimental modelling

16:30–16:45; EGU2007-A-05675; TS8.1-1WE4O-004
 Rey, P; **Teyssier, C.;** Whitney, D.L.; Fayon, A.K.
 Generation and flow of partially molten crust during orogenic collapse studied by ELLIPSIS dynamic modeling

16:45–17:00; EGU2007-A-04121; TS8.1-1WE4O-005
Burg, J.-P.; Gerya, T.
 Crust rheology controls morphology of ultramafic intrusions: numerical investigation

17:00 END OF SESSION

TS10.2 Tectonic evolution of Tethys in the Eastern Mediterranean Region – Posters

Convener: KOLLER, F.

Co-Convener(s): PARLAK, O., Robertson, A.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: PARLAK, O.

XY0887; EGU2007-A-00055; TS10.2-1WE3P-0887

Uysal, I.; Kaliwoda, M.; Karsli, O.; Tarkian, M.; Sadiklar, M.B.

Compositional variations of whole-rock and coexisting phases with partial melting and melt-rock interaction of peridotite in an upper mantle section from Ortaca area, SW Turkey

XY0888; EGU2007-A-01347; TS10.2-1WE3P-0888

Uysal, I.; Zaccarini, F.; Garuti, G.; Meisel, T.; Bernhardt, H.J.; Tarkian, M.; Sadiklar, M.B.

Cr-PGE mineralizations and Os-isotope signatures of chromitites in the Kahramanmaraş ophiolitic complex, Southeastern Turkey

XY0889; EGU2007-A-00670; TS10.2-1WE3P-0889

Ustaömer, P.A.; Ustaömer, T.; Collins, A.S.; Reischpeitsch, J.

Eocene continental arc magmatism along the southern Eurasian margin: New U-Pb LA-ICPMS, Sm-Nd and whole-rock geochemical data from Marmara Island, NW Turkey (solicited)

XY0890; EGU2007-A-06131; TS10.2-1WE3P-0890

Ustaömer, P.A.; Ustaömer, T.; Collins, A.S.; Robertson, A.H.F

Geochronology and tectonic setting of granitoidic intrusions in the Bitlis Massif, SE Turkey (solicited)

XY0891; EGU2007-A-00403; TS10.2-1WE3P-0891

Bozkurt, E.

Interplay Between Magmatism, Metamorphism and Core-Complex Formation: Evidence from the Menderes Massif, SW Turkey (solicited) (cancelled)

XY0892; EGU2007-A-02373; TS10.2-1WE3P-0892

Mackintosh, P.; Robertson, A

Late Triassic uplift and erosion of the Tauride platform: testing models of 'Cimmerian' orogenesis (solicited)

XY0893; EGU2007-A-04263; TS10.2-1WE3P-0893

Rice, S.; Robertson, A; Ustaömer, T

Deformation and emplacement of the Upper Cretaceous Izmir-Ankara-Erzincan Suture Zone in the Eastern Pontides, Turkey. (solicited)

XY0894; EGU2007-A-04760; TS10.2-1WE3P-0894

Boztug, D.; Jonckheere, R.C.; Heizler, M.; Ratschbacher, L.; Harlavan, Y.; Tichomirowa, M.

Integrated geothermochronology (207Pb-206Pb, 40Ar-39Ar, K-Ar, fission-track) of central Anatolian granitoids revealing continent-oceanic island arc and continent-continent collisions in central Anatolia, Turkey

XY0895; EGU2007-A-04814; TS10.2-1WE3P-0895

Kuscu, I.; Gencalioglu-Kuscu, G.; Tosdal, R.M.; Ullrich, T.D.; Friedman, R.

Link between magmatism and subduction-related events in southeastern Turkey

XY0896; EGU2007-A-04815; TS10.2-1WE3P-0896

Alcicek, M.C.; ten Veen, J.

The final stage of Lycian nappe emplacement in SW Anatolia (Turkey) constrained by late Early Miocene syn-orogenic sedimentation

XY0897; EGU2007-A-05505; TS10.2-1WE3P-0897

Tüysüz, O.; Tekin, U.K.

Timing and mechanism of imbrication of an active continental margin facing the Neotethys, Kargı; Massif, northern Turkey

XY0898; EGU2007-A-05990; TS10.2-1WE3P-0898

Parlak, O.; Rizaoglu, T.; Karaoglan, F.; Hames, W.E.; Billor, Z.

Timing of subduction-related magmatism and metamorphism during the evolution of the Southeast Anatolian Orogen, Turkey (solicited)

XY0899; EGU2007-A-06075; TS10.2-1WE3P-0899

Genc, S.C.; Tuysuz, O.

An unusual Jurassic extensional magmatism in the central and western Pontides, Northern Turkey: a geochemical and isotopic evaluation

XY0900; EGU2007-A-01036; TS10.2-1WE3P-0900

Bektas, O.; Eyuboglu, Y.; Bozkurt, E.; Sen, C.; Rojay, B.

Reversely Zoned Alaskan-Type Mafic-Ultramafic Cumulates In The Eastern Pontide Magmatic arc, NE Turkey

XY0901; EGU2007-A-07416; TS10.2-1WE3P-0901

Inwood, J.; Anderson, M; Morris, A; Robertson, A; Unlu-genc, U

Successive structural events in the Hatay ophiolite of southeast Turkey: distinguishing oceanic, emplacement and post-emplacement phases of faulting (solicited)

XY0902; EGU2007-A-08507; TS10.2-1WE3P-0902

Nzegge, O.M.; Satir, M.; Boztuğ, D.; Taubald, H.

Zircon ages, geochemistry and isotope systematics of the Devrekani intrusion, Kastamonu granitoid belt (Central Pontides, Turkey), and geodynamic interpretation

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 15:30–17:00

Poster Area Halls X/Y

Chairperson: PARLAK, O.

XY0903; EGU2007-A-08626; TS10.2-1WE4P-0903

Nzegge, O.M.; Satir, M.

Geochemistry and geochronology of the Eurasian-derived basement of the Central Pontides, NW Turkey

XY0904; EGU2007-A-08739; TS10.2-1WE4P-0904

Moix, P.; Kozur, H.W.; Stampfli, G.M.

Evidence for Palaeotethyan origin of a part of the Mersin Mélange (southern Turkey)

XY0905; EGU2007-A-09208; TS10.2-1WE4P-0905

Stoykov, S.

Comparative petrology, geochemistry and mineral chemistry of the Late Cretaceous magmatic rocks from the Central Srednogie magmatic zone, Bulgaria

XY0906; EGU2007-A-11107; TS10.2-1WE4P-0906

Stoykov, S.; Moritz, R.; Fontignie, D.

Comparative petrology, geochemistry, Sr and Nd isotope characteristics and mineral chemistry of the Late Cretaceous magmatic rocks in the northern part of the Panagyurishte ore region, Srednogie magmatic zone, Bulgaria

XY0907; EGU2007-A-10034; TS10.2-1WE4P-0907

Zachariadis, P.; Kostopoulos, D.; Reischmann, T.; Sklavounos, S.

Petrogenesis and tectonic setting of the Oraeokastro Ophiolite, N. Greece: Petrological, geochemical and isotopic constraints

XY0908; EGU2007-A-10069; TS10.2-1WE4P-0908
Zachariadis, P.; Reischmann, T.; Kostopoulos, D.
The Thessaloniki Ophiolite. A Middle Jurassic supra-subduction zone ophiolite between the Vardar Zone and the Serbomacedonian Massif, N. Greece

XY0909; EGU2007-A-01913; TS10.2-1WE4P-0909
Kaplanis, A.; Xypolias, P.; Koukouvelas, I.
Development and inversion of a Neo-Tethyan strand in the central Greece

XY0910; EGU2007-A-06848; TS10.2-1WE4P-0910
Koglin, N.; Reischmann, T.; Kostopoulos, D.; Matukov, D.; Sergeev, S
Zircon SHRIMP ages and the origin of ophiolitic rocks from the NE Aegean region, Greece.

XY0911; EGU2007-A-03622; TS10.2-1WE4P-0911
Diamantopoulos, A.; Krohe, A.; Mposkos, E.
Structural asymmetry and distributed strain of low-T shear planes inducing evidence for orogen-scale kinematic partitioning during denudation of high-P rocks

XY0912; EGU2007-A-03891; TS10.2-1WE4P-0912
Schefer, S.; Fügenschuh, B.; Schmid, S.; Egli, D.; Ustaszewski, K.
Tectonic evolution of the suture zone between Dinarides and Carpatho-Balkan: Field evidence from the Kopaonik region, southern Serbia

XY0913; EGU2007-A-03659; TS10.2-1WE4P-0913
Ustaszewski, K.; Schmid, S. M.; Lugovic, B.; Schuster, R.; Schaltegger, U.; Fügenschuh, B.; Kounov, A.; Bernoulli, D.; Hottinger, L.; Schefer, S.
The Late Cretaceous supra-subduction magmatism of North Kozara (northern Bosnia and Herzegovina): implications for the Cretaceous to Paleogene collisional history between Tisza and the Dinarides

XY0914; EGU2007-A-06336; TS10.2-1WE4P-0914
Koller, F.; Hoeck, V.; Onuzi, K.; Meisel, T.; **Ionescu, C.**
Contrasting peridotites in Albanian Ophiolites: Evidence from Spinels (solicited)

XY0915; EGU2007-A-06738; TS10.2-1WE4P-0915
Gvirtzman, Z.; Zilberman, E.
Reactivation of the Levant passive margin during the late Tertiary and formation of the Jaffa Basin offshore central Israel

XY0916; EGU2007-A-03239; TS10.2-1WE4P-0916
Korbar, T
Upper Cretaceous to Paleogene tectonostratigraphy of NE Adriatic region: geodynamic implications

XY0917; EGU2007-A-01020; TS10.2-1WE4P-0917
Harutyunyan, A
Earth crust of Lesser Caucasus is a Marginal sea or a Subduction zone of Tethys?

TS10.3 Middle East Basins Evolution – Posters

Convener: Barrier, E.
Co-Convener(s): Gaetani, M., Stephenson, R.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0918; EGU2007-A-06840; TS10.3-1WE3P-0918
Vrielynck, B.; Bochud, M.; Barrier, E.; Brunet, M.F.; Bergerat, F.; Brouillet, J.F.; Morgant, I.; Pasquier, D.
The MEBE GIS database: A tool for Middle East geology

XY0919; EGU2007-A-01387; TS10.3-1WE3P-0919
Stovba, S.; Khriachtchevskaia, O.; Stephenson, R.
Cretaceous-Cenozoic tectonic evolution of Odessa Shelf from seismic data (Ukrainian Black Sea)

XY0920; EGU2007-A-10690; TS10.3-1WE3P-0920
Stephenson, R.A.; Barrier, E.
Some issues having to do with the origins and evolution of the Black Sea – and some new ideas that need to be tested

XY0921; EGU2007-A-06296; TS10.3-1WE3P-0921
Meijers, M.J.M.; Okay, A.I.; Langereis, C.G.; Stephenson, R.A.; Van Hinsbergen, D.J.J
Paleolatitude reconstruction of upper Permian limestone olistoliths within the Karakaya Complex (Turkey): Eurasia or Gondwana?

XY0922; EGU2007-A-05506; TS10.3-1WE3P-0922
Kaymakci, N.; Langereis, C.G.; Meijers, M.J.M.; Ertepinar, P.; Hippolyte, J-C
Paleomagnetic Evolution of the Pontides (N Turkey)

XY0923; EGU2007-A-05983; TS10.3-1WE3P-0923
Oberhaensli, R.; Candan, O.; Rimmele, G.; Bousquet, R.; Okay, A.
Metamorphism in the Bitlis Massif Its geodynamic consequences

XY0924; EGU2007-A-09182; TS10.3-1WE3P-0924
Galoyan, G.; Rolland, Y.; **Sossou, M.;** Corsini, M.; Billo, S.; Melkonyan, R.; Jrbashyan, R
Age of emplacement and geodynamic significance of Armenian ophiolites: evidence for Jurassic Back-arc opening between the Armenian block and the Asian active margin

Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 15:30–17:00

Poster Area Halls X/Y
Chairperson: N.N.

XY0925; EGU2007-A-09755; TS10.3-1WE4P-0925
Homberg, C.; Collin, P. Y.; Ferry, S.; Müller, C.; **Barrier, E.;** Mroueh, M.; Hamdan, W.; Hijazi, F.; Mancinelli, A.
Meso-cenozoic tectonic evolution of Lebanon

XY0926; EGU2007-A-07236; TS10.3-1WE4P-0926
Al-Zoubi, AS
Sagging of the Dead Sea basin: geometry of the southern and northern ends

XY0927; EGU2007-A-01402; TS10.3-1WE4P-0927
Asadiyan, M.H.; Zamani, A.
Morphotectonic study of rivers in southeastern Mesopotamian Depression

XY0928; EGU2007-A-09829; TS10.3-1WE4P-0928
Henry, B.; Homberg, C.; Barrier, E.; Mroueh, M.; Hamdan, W.; Hijazi, F.
Palaeomagnetism of Aptian-Albian sedimentary formation in Lebanon and structural implications

XY0929; EGU2007-A-01269; TS10.3-1WE4P-0929
Sirat, M.; de Jong, S.; Werner, E.; Sokoutis, D.; Willingshofer, E.; Ali, M.
The tectonic evolution of Jebel Hafit and Al-Jaww Plain: structural style and fracture analysis

XY0930; EGU2007-A-04895; TS10.3-1WE4P-0930
Dolati, A.; Smit, J.; Seward, D.; Burg, J.-P.
Structural analysis and low-temperature thermochronometry

XY0931; EGU2007-A-05055; TS10.3-1WE4P-0931
Angiolini, L.; Gaetani, M.; Muttoni, G.; Stephenson, M.H.; **Zanchi, A.**
The biotic affinity of N Iran during Carboniferous-Early Permian times: was N Iran in the peri-Gondwanan fringe?

XY0932; EGU2007-A-09853; TS10.3-1WE4P-0932

Ballato, P.; Landgraf, A.; Strecker, M. R.; Uba, C. E.; Friedrich, A.; Tabatabaei, S.
Cyclicality of prograding coarse-grained facies in a foreland basin system: an example from the southern Alborz, northern Iran

XY0933; EGU2007-A-11682; TS10.3-1WE4P-0933

Berra, F.; Zanchi, A.; Mattei, M.; Marinoni, N.; Nawab, A.
Stratigraphy across the Cimmerian unconformity in Eastern Alborz (Neka Valley, Iran): Late Cretaceous glauconitic facies as indicator of a geodynamic event

XY0934; EGU2007-A-05059; TS10.3-1WE4P-0934

Zanchi, A.; Balini, M.; Berra, F.; Garzanti, E.; Mattei, M.; Muttoni, G.; Zanchetta, S.; Nicora, A.; Bollati, I.; Mossavari, F.

The Cimmerian evolution of the Nakhla-Anarak area (Central Iran) and its bearing for the reconstruction of the history of the Eurasian margin

XY0935; EGU2007-A-06391; TS10.3-1WE4P-0935

Balini, M.; Nicora, A.; Berra, F.; Garzanti, E.; Mattei, M.; Zanchi, A.; Bollati, I.; Levera, M.; Salamati, R.; Mossavari, F.
The Triassic stratigraphic succession of Nakhla (Central Iran), record of an active margin

XY0936; EGU2007-A-11146; TS10.3-1WE4P-0936

Abdollahie Fard, I.; Mokhtari, M.; Alavi, S.A.
The main structural elements of the Abadan Plain (SW Iran) and the N. Persian Gulf based on the integrated geophysical data.

TS10.5/GD12/SM19 Geodynamics, kinematics and crustal tectonics of the African/Arabian/Eurasian collision zone in the eastern Mediterranean/northern Arabian region (co-organized by GD & SM) – Posters

Convener: van Hinsbergen, D.

Co-Convener(s): Agard, P., Tírel, C., Edwards, M.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0937; EGU2007-A-01046; TS10.5/GD12/SM19-1WE3P-0937

Asadiyan, M.H.; Zamani, A.

Tectonophysical interpretation of river anomaly using equation of Euler and Fermat-Bernoulli: a case in southwest Iran

XY0938; EGU2007-A-00717; TS10.5/GD12/SM19-1WE3P-0938

Sarkarinejad, K.; **Faghih, A.;** Heyhat, M.R.

Tectonic evolution of accretion- and collision-related structures in the southern Iran

XY0939; EGU2007-A-00716; TS10.5/GD12/SM19-1WE3P-0939

Sarkarinejad, k.; **Heyhat, M.R.;** Faghih, A.

Deformation conditions, kinematics, and displacement history in Dehbid shear zones, Iran

XY0940; EGU2007-A-04910; TS10.5/GD12/SM19-1WE3P-0940

Djamour, Y.; Nankali, H. R.; Sedighi, M.; Sadeghi, F.; Rahimi, Z.; Tavakoli, F.; Mousavi, Z.; Khorrami, F.; Aghamohammadi, A.; Hosseini, S.

First results inferred from the new Iranian Permanent GPS Network for Geodynamics (IPGN)

XY0941; EGU2007-A-00199; TS10.5/GD12/SM19-1WE3P-0941

Nankali, H.; Djamour, Y.; Vossoghi, B.

Establishment of permanent GPS network for crustal deformation monitoring in Iran

XY0942; EGU2007-A-04692; TS10.5/GD12/SM19-1WE3P-0942

Cowgill, E.

Neotectonic evidence of active folding in NE Iraq and SE Turkey suggests the Taurus-Zagros thrust belt is underlain by a locked, northeast-dipping megathrust

XY0943; EGU2007-A-04464; TS10.5/GD12/SM19-1WE3P-0943

Authemayou, C.; Bellier, O.; Chardon, D.; Tavakoli, F.; Walpersdorf, A.; Benedetti, L.; Malekzade, Z.; Shabanian, E.; Abbassi, M.; Hatzfeld, D.

Evolving partitioning of oblique convergence between Arabia/Eurasia in the northwestern Zagros (Iran)

XY0944; EGU2007-A-06628; TS10.5/GD12/SM19-1WE3P-0944

Agard, P.; Omrani, J.; Jolivet, L.; Whitechurch, H.; Monié, P.

New petrological and geodynamic constraints for the Zagros orogeny

XY0945; EGU2007-A-06773; TS10.5/GD12/SM19-1WE3P-0945

Yamato, P.; Agard, P.; Goffé, B.; De Andrade, V.; Vidal, O.; Jolivet, L.

New, high-precision P-T estimates for Oman blueschists: Implications for obduction, nappe stacking and exhumation processes

XY0946; EGU2007-A-00032; TS10.5/GD12/SM19-1WE3P-0946

Sharkov, E.

Interaction of a mantle plume's heads and continental crust under conditions of within-plate deformations: evidence for the NW of Arabian plate

XY0947; EGU2007-A-09804; TS10.5/GD12/SM19-1WE3P-0947

Meqbel, N.; Becken, M.; Ritter, O.; Weckmann, U.; Muñoz, G.; DESIRE Team

A magnetotelluric traverse across the Dead-Sea Transform and the Dead Sea pull-apart basin

XY0948; EGU2007-A-03453; TS10.5/GD12/SM19-1WE3P-0948

Khalil, H.; Mahmoud, S.; Rayan, A.; Fernandes, R.M.S.; Miranda, J.M.; Bastos, L.

Crustal deformation patterns in Northern Egypt derived from GPS campaign data

XY0949; EGU2007-A-03136; TS10.5/GD12/SM19-1WE3P-0949

Forté, A.M.; Cowgill, E.S.

Neotectonic and cross-sectional evidence of along strike variation of strain in the Greater Caucasus mountains

XY0950; EGU2007-A-05976; TS10.5/GD12/SM19-1WE3P-0950

Nadirov, R.; Asgarov, H.; Finneran, J.; Tingay, M.; Muller, B.
Contemporary Tectonic Stress Orientation at Azeri-Chirag-Ginashli field, South-Caspian Basin

XY0951; EGU2007-A-00796; TS10.5/GD12/SM19-1WE3P-0951

Nazarevych, A.; Nazarevych, L.

Geodynamics, tectonics and seismicity of North-Eastern Pannardi (modern look)

XY0952; EGU2007-A-03214; TS10.5/GD12/SM19-1WE3P-0952
Koval, A.; Chepil, P.; Demianchuk, O.; Dovzhok, T.; Yankevych, U
New views on the geological structures of the Carpathian region

XY0953; EGU2007-A-04138; TS10.5/GD12/SM19-1WE3P-0953
Katz, Yu.; **Eppelbaum, L.**; Ben-Avraham, Z.
Tectonic setting in Israel derived from examination of facial distribution and magnetic-thermal data analysis

XY0954; EGU2007-A-02263; TS10.5/GD12/SM19-1WE3P-0954
Gonenc, T.; Pamukcu, O.; Akgun, M.; Ozyalin, S.; **Yurdakul, A.**
Evaluation of Gravity and Magnetic Data of Eastern Mediterranean

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 15:30–17:00

Poster Area Halls X/Y
Chairperson: N.N.

XY0955; EGU2007-A-04142; TS10.5/GD12/SM19-1WE4P-0955
Ozden, S.; Over, S.; Kavak, K.; Inal, S.
Late Cenozoic stress states along the North Anatolian Fault, Bolu basin, NW Anatolia

XY0956; EGU2007-A-07068; TS10.5/GD12/SM19-1WE4P-0956
Erturac, M.K.; Özeren, M.S.; Tari, E.; Yavasoglu, H.
GPS-Based Strain-Rate Inversions and the Behavior of the Middle Section of the Convex Arc of the North Anatolian Fault: Remarks on Splay Faulting

XY0957; EGU2007-A-06283; TS10.5/GD12/SM19-1WE4P-0957
Gencalioglu-Kuscu, G.; **Kuscu, I.**
Nature of post-collisional phreatomagmatic volcanism in the Cappadocian Volcanic Province: Cora Maar, central Anatolia, Turkey

XY0958; EGU2007-A-01525; TS10.5/GD12/SM19-1WE4P-0958
Pinar, A.; Honkura, Y.; Kuge, K.; Matsushima, M.; Sezgin, N.; Yilmazer, M.; Ogutcu, Z.
The November 15, 2000 Lake Van Earthquake (Mw=5.6) in Eastern Turkey: Seismotectonic Implications for Arabian-Eurasian Collision Zone

XY0959; EGU2007-A-00290; TS10.5/GD12/SM19-1WE4P-0959
Toker, M.; Ediger, V.; Evans, G
Intra-basin salt regime and its thin-skinned tectonism into delta sedimentation of the Cilicia-Adana Basin, the NE-Mediterranean

XY0960; EGU2007-A-05735; TS10.5/GD12/SM19-1WE4P-0960
Dilek, Y.
Collision tectonics and crustal evolution of the eastern Mediterranean region since the late Mesozoic

XY0961; EGU2007-A-01412; TS10.5/GD12/SM19-1WE4P-0961
Hüsing, S.K.; Inceöz, M.; Zachariasse, J.W.; Krijgsman, W.; van Hinsbergen, D.J.J
Neogene foreland basin evolution in SE Anatolia and the evolution of the eastern Tethys gateway through Turkey

XY0962; EGU2007-A-04508; TS10.5/GD12/SM19-1WE4P-0962
Wüthrich, E.; Seward, D.; Dimov, D.; Burg, J.-P.
Preliminary thermochronological data on the tectonic evolution of the Bulgarian Rhodope

XY0963; EGU2007-A-01425; TS10.5/GD12/SM19-1WE4P-0963
van Hinsbergen, D.J.J.; Zachariasse, W.J.; Krijgsman, W.; Langereis, C.G.; Govers, R.; Wortel, M.J.R.; Fortuin, A.R.
Early Pliocene onset of left-lateral strike-slip tectonics, rotations and uplift in the southern Aegean region related to STEP faulting

XY0964; EGU2007-A-02841; TS10.5/GD12/SM19-1WE4P-0964
van Hinsbergen, D.J.J.; Boekhout, F.
Neogene brittle detachment faulting on Kos during formation of the Cycladic-Menderes metamorphic core complex (Greece/Turkey)

XY0965; EGU2007-A-02629; TS10.5/GD12/SM19-1WE4P-0965
Ebner, M.; Grasemann, B.
Pliocene-Pleistocene tectonics in the Dodecanese (W-Kos, Greece)

XY0966; EGU2007-A-07042; TS10.5/GD12/SM19-1WE4P-0966
Neubauer, F.
Geodynamic control of shear reversal, exhumation of metamorphic core complexes and ore mineralization in the Aegean arc

XY0967; EGU2007-A-09683; TS10.5/GD12/SM19-1WE4P-0967
Tirel, C.; Wortel, M.J.R.; Brun, J.-P.; Govers, R.; Burov, E.
Back-arc extension in the Aegean Sea

XY0968; EGU2007-A-04105; TS10.5/GD12/SM19-1WE4P-0968
Voit, K.; Grasemann, B.; Edwards, M.; Petrakakis, K.; Draganits, E.; Müller, M.
A crustal scale viscous-frictional shear zone (Kea, Western Cyclades, Greece)

XY0969; EGU2007-A-07967; TS10.5/GD12/SM19-1WE4P-0969
Mueller, M.; Grasemann, B.; Edwards, M.A.; Team ACCEL
New evidence of bidirectional extension in the Cyclades: SSW-directed low-angle normal faulting on the island of Kea, W. Aegean

XY0970; EGU2007-A-09331; TS10.5/GD12/SM19-1WE4P-0970
Edwards, M. A.; Grasemann, B.; Schneider, D.A.; ACCEL-Team, A.
Mediterranean snapshots of accelerated retreat and geodynamic instability in continental orogenesis.

XY0971; EGU2007-A-08769; TS10.5/GD12/SM19-1WE4P-0971
Iglseder, C.; Grasemann, B.; Edwards, M.A.; Petrakakis, K.; Schneider, D.A.; Müller, M.; Voit, K.; Draganits, E.
Multiphase shear zones with south directed kinematics in the Western Cyclades (Greece)

TS10.6 Active Tectonics of the Circum-Adriatic Region – Posters

Convener: Cunningham, D.
Co-Convener(s): Vittori, E., Piccardi, L.
Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 13:30–15:00

Poster Area Halls X/Y
Chairperson: N.N.

Keynote Lectures

XY0972; EGU2007-A-03889; TS10.6-1WE3P-0972
Cunningham, D.; Grebbby, S.; Tansey, K.; Gosar, A.; Kastelic, V.
 Application of airborne LiDAR to mapping seismogenic faults along the NE boundary of the Adria microplate, Slovenia

XY0973; EGU2007-A-10116; TS10.6-1WE3P-0973
Verbic, T.; Vrabec, M.; Sterle, O.; Stopar, B.
 Deformation rates and structural styles of active deformation in central Slovenia: Strike-slip tectonics vs. reverse faulting

XY0974; EGU2007-A-00279; TS10.6-1WE3P-0974
Bechtold, M.; Battaglia, M.; Tanner, D.; Zuliani, D.
 Tectonics of the Friuli area (NE Italy): results from continuous GPS and kinematic modeling

XY0975; EGU2007-A-00422; TS10.6-1WE3P-0975
Komatina-Petrovic, S.K.P
 Geodynamical Investigations in Serbia

XY0976; EGU2007-A-00405; TS10.6-1WE3P-0976
Muceku, B.; Bernet, M.; van der Beek, P.; Mascle, G.; Tashko, A.
 Thermochronological evidence for Mio-Pliocene late orogenic extension in the eastern Albanides

XY0977; EGU2007-A-03210; TS10.6-1WE3P-0977
Caputo, R.; Di Bucci, D.; Fracassi, U.; Mastronuzzi, G.; Sansò, P.; Selli, G.
 Stress field measurements from joints: evidence for Middle-Late Quaternary deformation of the southern Adriatic foreland (Southern Apulia, Italy)

XY0978; EGU2007-A-04880; TS10.6-1WE3P-0978
Ganas, A.; Drakatos, G.; Bosy, J.; Petro, L.; Kontny, B.; Stercz, M.; Melis, N.; Cacon, S.; Papanikolaou, M.; Kiratzi, A.
 COST Action 625 Results: Monitoring of the Kaparelli active fault, 2003-2006

XY0979; EGU2007-A-03600; TS10.6-1WE3P-0979
Szafián, P.; Bada, G.; Vincze, O.; **Székely, B.;** Spiess, V.
 Neotectonic analysis of high resolution seismic data, Lake Balaton, Pannonian basin

XY0980; EGU2007-A-06425; TS10.6-1WE3P-0980
Stepancikova, P.; Stemberk, J.; Kostak, B.; Vilimek, V.
 Neotectonic movements in the East Sudeten Mountains and monitoring of recent fault displacements (Czech Republic)

XY0981; EGU2007-A-01589; TS10.6-1WE3P-0981
Stanica, D.; Stanica, M.
 The main structural features of the Carpathian arc bend zone in connection with the torsion process of the seismogenic relic slab (Vrancea region)

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 15:30–17:00

TS Poster Area
 Chairperson: N.N.

KL01 C.F. Gauss Lecture of the Deutsche Geophysikalische Gesellschaft (DGG)

Convener: Schmeling, H.
 Co-Convener(s): Rudloff, A., Kuempel, H.
 Lecture Room 10 (E1)
 Chairperson: N.N.

19:00–20:00; EGU2007-A-11629; KL01-1WE6O-001
Igel, H.

Rupture, Waves, and Imaging: The Role of High-Performance Computing (solicited)

20:00 END OF SESSION

MEETING PROGRAMME

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GI – Geosciences Instrumentation and Data Systems	510
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F – Forums	/

MEETING PROGRAMME

THURSDAY

Union Symposia

US6 TOPO-EUROPE - 4-D Topography Evolution in Europe: Uplift, Subsidence and Sea Level Change (abstract submission by invitation only)

Convener: Cloetingh, S.

Co-Convener(s): Green, A., Thybo, H., Friedrich, A.

Lecture Room 25

Chairperson: GREEN, A AND LUDDEN, J.

8:30–8:45; EGU2007-A-08721; US6-1TH10-001

Cloetingh, S.; Green, A.; Thybo, H.; Friedrich, A.

4-D Topography Evolution in Europe: Uplift, Subsidence and Sea Level Change (TOPO-EUROPE) (solicited)

8:45–9:15; EGU2007-A-05451; US6-1TH10-002

Bunge, H.-P.; Steinle-Neumann, G.; Schubert, B.; Piazzoni, A.

Global models of mantle flow and density from geodynamic considerations (solicited)

9:15–9:30; EGU2007-A-03673; US6-1TH10-003

Artemieva, I M

Dynamic Topography of the East European Craton (solicited)

9:30–10:00; EGU2007-A-10081; US6-1TH10-004

Jones, A.G.; Moorkamp, M.; Hamilton, M.P.

Structures and geometries in the continental lithosphere: Insights from joint inversion and co-operative interpretation of seismic and electromagnetic data (solicited)

10:00 COFFEE BREAK

Chairperson: FRIEDRICH, A. AND FACCENNA, C.

10:30–11:00; EGU2007-A-03280; US6-1TH20-001

Steinberger, B.; Torsvik, T.H.

Relation between flow in the Earth's mantle, phase boundary topography and dynamic topography at the Earth's surface (solicited)

11:00–11:15; EGU2007-A-04734; US6-1TH20-002

BUROV, E.

Surface processes and tectonics: forcing of continental subduction and deep processes (solicited)

11:15–11:30; EGU2007-A-11453; US6-1TH20-003

Zerbini, S.; The WEGENER Board

The Contribution of the IAG Intercommission Project WEGENER to TOPO-Europe (solicited)

11:30–12:00; EGU2007-A-09132; US6-1TH20-004

Spakman, W.; Tanasecu, G.; Amaru, M.

Surface deformation and mantle structure of the European region (solicited)

12:00 LUNCH BREAK

Chairperson: THYBO, H. AND JONES, A.G.

13:30–13:45; EGU2007-A-11451; US6-1TH30-001

Ludden, J.

Involving the applied geological public sector and industry in TopoEurope research (solicited)

13:45–14:00; EGU2007-A-11454; US6-1TH30-002

Ledru, P.; Guillen, A.; Courrioux, G.; Calcagno, P.

Geological knowledge as a product of 3D modelling and inversion of geophysical data (solicited)

14:00–14:15; EGU2007-A-11449; US6-1TH30-003

Friedrich, A.; King, G.; Armijo, R.; Bowman, D.; Gaude-mer, Y.

Surface expression of lithospheric deformation on time-scales ranging from years to millions of years: The evolution of the East California Shear Zone and associated structures by propagation (solicited)

14:15–14:45; EGU2007-A-03014; US6-1TH30-004

Faccenna, C.; Funicello, F.; Becker, T.W.; Piromallo, C.

Slab disruption, mantle circulation and the rise of the Calabria-Apennine belt (solicited)

14:45–15:00; EGU2007-A-04219; US6-1TH30-005

Houseman, G.; Stuart, G.; Hegedüs, E.; Brückl, E.;

Radovanovic, S.; Achauer, U.; Brisbane, A.; Kovács, A.; Hausmann, H; Team CBP

The Carpathian Basins Project: an investigation of the evolution of the Pannonian-Carpathian orogenic system (solicited)

15:00 COFFEE BREAK

Chairperson: BUNGE, H.-P. AND CLOETINGH, S.

15:30–15:45; EGU2007-A-08443; US6-1TH40-001

Horváth, F.; Bada, G.; Sztanó, O.; Szafián, P.; Timár, G.

Topography of the Pannonian basin: a key to understand basin evolution (solicited)

15:45–16:15; EGU2007-A-06362; US6-1TH40-002

Schlunegger, F.; Schwab, M.

Possible environmental effects on modern lithospheric deformation in the Central Alps of Europe (solicited)

16:15–16:30; EGU2007-A-04031; US6-1TH40-003

Demoulin, A.

Middle Pleistocene to present-day crustal motion at the western border of the Roer graben and in Ardenne-Eifel: a geomorphic and geodetic perspective (solicited)

16:30–16:45; EGU2007-A-06493; US6-1TH40-004

Gallart, J.; Topo-Iberia Working Group

Integrated Geosciences in the Iberian plate domains: The Topo-Iberia project (solicited)

16:45–17:00; EGU2007-A-07863; US6-1TH40-005

Mosar, J.; Glasmacher, U.A.; Kangarli, T.; Bochud, M.; Rast, A.

Mountain building in the Greater Caucasus: Topography and Uplift/exhumation (solicited)

17:00 COFFEE BREAK

17:00 END OF SESSION

US10 Earth and Space Science Informatics (ESSI): Standardization and Interoperability of Web Services across the Geosciences

Convener: Nativi, S.
Co-Convener(s): Ramamurthy, M., Jackson, M.
Lecture Room 29
Chairperson: N.N.

8:30–8:45; EGU2007-A-05826; US10-1TH10-001

Husar, R.; Robinson, E.

Architectures and technologies enabling the diffusion and use of atmospheric science information. (solicited)

8:45–9:00; EGU2007-A-09135; US10-1TH10-002

Fox, P.; Cinquini, L.; West, P.; McGuinness, D.; Garcia, J.; Benedict, J.

Web Services in the Virtual Solar-Terrestrial Observatory: Semantic Query, and Data Access via OPeNDAP (solicited)

9:00–9:15; EGU2007-A-10949; US10-1TH10-003

Woolf, A

UK NERC DataGrid: thematic focus and international context (solicited)

9:15–9:30; EGU2007-A-04674; US10-1TH10-004

Ramamurthy, M.; Droegemeier, K.

Linked Environment for Atmospheric Discovery (LEAD): Transforming the Sensing and Numerical Prediction of High Impact Local Weather Through Dynamic Adaptation (solicited)

9:30–9:45; EGU2007-A-11622; US10-1TH10-005

Baru, C.

Standardization and Interoperability across the Geosciences: Insights from GEON (solicited)

9:45–10:00; EGU2007-A-04842; US10-1TH10-006

Domenico, B.; **Nativi, S.;** Caron, J.; Bigagli, L.

GALEON Phase 2: experimenting an interoperability framework between netCDF and the geospatial information communities (solicited)

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–11:00; EGU2007-A-04799; US10-1TH20-001

Marchetti, P.G.

Advancing Earth Observations Missions and Geospatial Interoperability within the Heterogeneous Missions Accessibility Project (solicited)

11:00–11:30; EGU2007-A-04676; US10-1TH20-002

Ullman, R.; Enloe, Y

NASA's Earth Science Data Systems Standards Process Experiences (solicited)

11:30–12:00; EGU2007-A-04501; US10-1TH20-003

Khalsa, S.J.; Nativi, S.; Shibasaki, R.; Ahern, T.; Rainer, J.-M.

The GEOSS Interoperability Process Pilot Project (solicited)

12:00 END OF SESSION

US12 The EC 7th RTD Framework Programme: addressing the challenges of global change

Convener: Ludden, J.
Lecture Room D
Chairperson: N.N.

Educational Symposia

ES2 ECORD Teachers Workshop: Exploring the Ocean Floor with the Integrated Ocean Drilling Program

Convener: Arnold, E.
Lecture Room 9 (P)
Chairperson: N.N.

Chairperson: N.N.

ES3 Integrating Activities in Environmental Science Education - Approaches and Perspectives

Convener: Schuepbach, E.
Co-Convener(s): Uhrek, E., Crosby, N.
Lecture Room 9 (P)
Chairperson: MAIONE, M.

13:30–13:45; EGU2007-A-06676; ES3-1TH30-001

Schuepbach, E.

The concept of integrated learning environments in ACCENT

13:45–14:00; EGU2007-A-06262; ES3-1TH30-002

Schuepbach, E.; Brimblecombe, P.; Moussiopoulos, N.;

Jacob, M.; Ubelis, A.; Kobernus, M.; Aarflot, A.

Learning about inter- and transdisciplinarity in atmospheric sciences - training of early career scientists in ACCENT

14:00–14:15; EGU2007-A-02255; ES3-1TH30-003

Moneo, M.; Saracoglu, S.; Iglesias, I

Capacity building for proactive drought management: Developing communication tools

14:15–14:30; EGU2007-A-10517; ES3-1TH30-004

Halenka, T.

On the educational activities of EMS

14:30–14:45; EGU2007-A-00195; ES3-1TH30-005

Ivanova, I.; **Shurelova, Sh.**

The environmental education in the bulgarian secondary school

14:45–15:00; EGU2007-A-00563; ES3-1TH30-006

Vlemmix, T.; Brinksma, E.J.; Levelt, P.F.; Braak, R.;

Veihelmann, B.; Veeffkind, J.P.

The GLOBE Aerosol Monitoring Project at KNMI

15:00 COFFEE BREAK

Chairperson: SCHUEPBACH, E.

15:30–15:45; EGU2007-A-01610; ES3-1TH40-001

Hasager, C.B.; Andersen, O.B.; Christiansen, M.B.; Højerslev, N.K.;

Høyer, J.L.; Jørgensen, P.V.; Lichtenegger, J.;

Pedersen, L.T.; Rasmussen, M.S.; Sørensen, P.B.

The world expedition Galathea 3 seen from Satellite Eye

15:45–16:00; EGU2007-A-06871; ES3-1TH40-002

Meijer, HAJ.; Goedhart, MJ

School CO2-Net: Network of secondary schools observing CO2 in the air, The Netherlands

16:00–16:30; EGU2007-A-05406; ES3-1TH40-003

Liberato, M.L.R.; Santos, J.A.; Pereira, M.G.; Amraoui, M.;

Liberato, J.; Cabugueira, A.; Oliveira, S.B.

Experimental teaching in Geosciences (solicited)

16:30–16:45; EGU2007-A-01911; ES3-1TH4O-004
Uherek, E.
 Web-based and Science driven Earth System Education

16:45–17:15; EGU2007-A-05544; ES3-1TH4O-005
Johnson, R.; Foster, S.; Carbone, L.; Eastburn, T.; Gardiner, L.; Russell, R.; Ward, D.; Bergman, J.; Henderson, S.; LaGrave, M.
 Climate and Global Change Education at the National Center for Atmospheric Research in Boulder, Colorado: Opportunities for Collaboration (solicited)

17:15 END OF SESSION

ES3 Integrating Activities in Environmental Science Education - Approaches and Perspectives – Posters

Convener: Schuepbach, E.
 Co-Convener(s): Uherek, E., Crosby, N.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: CROSBY, N.

XY0001; EGU2007-A-02137; ES3-1TH5P-0001
Stan-Sion, A.; Arabas, S.
 EUFAR - new perspectives in education and training for students and young researchers

XY0002; EGU2007-A-09079; ES3-1TH5P-0002
Coll, P.; THE SGE MASTER and STEP MASTER METROLOGY TEAM
 Water, Air and Soil field study in South of France for Master students

XY0003; EGU2007-A-05308; ES3-1TH5P-0003
Intsiful, J.; Jones, R.; Hassell, D.; Moufouma-Okia, W.; Hein, D.; Wilson, S.
 Providing REgional Climates for Impact Studies (PRECIS) in Developing Countries: Provision of Tools, Training, Support and Services

XY0004; EGU2007-A-02659; ES3-1TH5P-0004
Maione, M.; Mangani, G.; Teachers and Students of Liceo Marconi
 Evaluation of Urban Air Quality: results of a School Experimentation

XY0005; EGU2007-A-09451; ES3-1TH5P-0005
Weidinger, T.; Gyuró, Gy.; Orgoványi, A.; Döri, I.; Kalapos, T.; Victor, A.; Juhász, I.; Tóth, P.; Machon, A.
 The GLOBE program in the Hungarian environmental education

XY0006; EGU2007-A-10083; ES3-1TH5P-0006
Plotnikova, A. N.; Lambeva, E. D.
 Geoscience in Russian Secondary School

Atmospheric Sciences

AS1.03 Observation, Prediction and Verification of Precipitation (General Session) (co-listed in HS)

Convener: Michaelides, S.
 Co-Convener(s): Amitai, E., Wernli, H.
 Lecture Room 10 (E1)
 Chairperson: MICHAELIDES, S., AHRENS, B.

8:30–8:45; EGU2007-A-07781; AS1.03-1TH1O-001
Glasl, S.; Anselm, M.
 The Droplet spectrometer - an instrument for detailed rain characterisation

8:45–9:00; EGU2007-A-08636; AS1.03-1TH1O-002
Leroy, D.; Wobrock, W.; Flossmann, A.; Boudevillain, B.; Chapon, B.; Delrieu, G.

A comparison of volumetric radar and disdrometer measurements with rain and ice crystal spectra simulated by a 3D bin resolved cloud model during intense precipitation events over the Cévennes' foothills

9:00–9:15; EGU2007-A-06231; AS1.03-1TH1O-003
Lanza, L.G.; Stagi, L.

Improving the accuracy of operational tipping-bucket rain gauges by calibration techniques

9:15–9:30; EGU2007-A-10370; AS1.03-1TH1O-004
Halfon, n.; Kutiel, h.

Precipitation mapping assisted by means of subjective methods

9:30–9:45; EGU2007-A-08891; AS1.03-1TH1O-005
Cancelliere, A.; Sciuto, G.; Bonaccorso, B.; Rossi, G.
 Probabilistic quality control of daily precipitation data

9:45–10:00; EGU2007-A-00060; AS1.03-1TH1O-006
Fargey, S.; Marshall, S.
 Spatial evaluation of storm processes in southwestern Canada, with links to seasonal rainfall patterns

10:00 COFFEE BREAK

Chairperson: AMITAI, E., MORIN, E.

10:30–10:45; EGU2007-A-11254; AS1.03-1TH2O-001
Alpert, P.; Rayitsfeld, A.; Firsten, A.; David, N.; Goldshtein, O.; Messer, H.; Zinevich, A.
 Rainfall monitoring by cellular networks (solicited)

10:45–11:00; EGU2007-A-05252; AS1.03-1TH2O-002
Nauss, T.; Thies, B.; Bendix, J.
 Detection of high Rain Clouds using Water Vapour Emission - Transition from Meteosat First (MVIRI) to Second Generation (SEVIRI)

11:00–11:15; EGU2007-A-07953; AS1.03-1TH2O-003
Germann, U.; Panziera, L.
 Which do you trust more: a radar echo 3km above your head or a raingauge measurement 8km away?

11:15–11:30; EGU2007-A-10368; AS1.03-1TH2O-004
Amitai, E.; Nystuen, J. A.; Anagnostou, E. N.; Anagnostou, M. N.
 Underwater and radar rainfall measurements

11:30–11:45; EGU2007-A-10917; AS1.03-1TH2O-005
Berenguer, M.; Zawadzki, I.
 Toward a representation of the error covariance matrix for the assimilation of radar rainfall measurements

11:45–12:00; EGU2007-A-02045; AS1.03-1TH2O-006
Morin, E.; Gabella, M.
 Radar-based quantitative precipitation estimation over Mediterranean and dry climate regimes

12:00 LUNCH BREAK

Chairperson: WERNLI, H., HAIDEN, T.

13:30–13:45; EGU2007-A-09017; AS1.03-1TH3O-001
Brynjólfsson, S.; Ólafsson, H.
 Observations of precipitation in Svarfaðadalur valley, N-Iceland

13:45–14:00; EGU2007-A-10722; AS1.03-1TH3O-002
Kidd, C.; Joe, P.
 Precipitation occurrence: comparison of model, satellite and surface measurements (cancelled)

14:00–14:15; EGU2007-A-01300; AS1.03-1TH3O-003
Federico, S.; Avolio, E.; Bellecci, C.; Lavagnini, A.; Colacino, M.
 Sensitivity of rainstorms in Central Mediterranean Basin to upper level forcing: a case study

14:15–14:30; EGU2007-A-02701; AS1.03-1TH3O-004
Iturrioz, I.; Hernández, E.; Ribera, P.; Teso, MT; Méndez, R
 A separation between stratiform and convective precipitation from instability indices and a backward trajectories study

14:30–14:45; EGU2007-A-06600; AS1.03-1TH3O-005
Marshall, J.; Morcrette, C.; Blyth, A.; Browning, K.; Corsmeier, U.; Kalthoff, N.; Kohler, M.; Norton, E.; Parker, D.
 Effects of variable cirrus-shading on convective initiation during CSIP IOP 5

14:45–15:00; EGU2007-A-07428; AS1.03-1TH3O-006
Hohenegger, C.; Walser, A.; Schär, C.
 Cloud-resolving ensemble simulations of the August 2005 Alpine flood

15:00 COFFEE BREAK

Chairperson: ALPERT, P., NAUSS, T.

15:30–15:45; EGU2007-A-01634; AS1.03-1TH4O-001
Ahrens, B.; Walser, A.; Jaun, S.
 Evaluation of probabilistic precipitation forecasts with a probabilistic reference in Swiss catchments

15:45–16:00; EGU2007-A-07188; AS1.03-1TH4O-002
Ament, F.; Baehler, T.; Ebert, E. E.
 Evaluation of Fuzzy Scores for Quantitative Precipitation Forecast Verification using a Testbed Approach

16:00–16:15; EGU2007-A-09306; AS1.03-1TH4O-003
Nurmi, P.; Näsman, S.; Zingerle, C.
 Entity-based verification in the intercomparison of three NWP models during a heavy snowfall event

16:15–16:30; EGU2007-A-08527; AS1.03-1TH4O-004
 Keil, C.; Craig, G.C.
 Fuzzy verification of high-resolution ensemble forecasts using a displacement-based quality measure

16:30–16:45; EGU2007-A-02032; AS1.03-1TH4O-005
Ivanov, S.; Palamarchuk, J.
 Verification of precipitation and humidity forecasts in the MM5 model versus reanalysis

16:45–17:00; EGU2007-A-07316; AS1.03-1TH4O-006
Haiden, T.; Pistotnik, G.
 On the problem of merging nowcasts into NWP model forecasts

17:00 END OF SESSION

AS1.05 Recent developments in Geophysical Fluid Dynamics

Convener: Harlander, U.
 Co-Convener(s): Ehrendorfer, M., Will, A.
 Lecture Room 29
 Chairperson: HARLANDER, U., WILL, A.

15:30–15:45; EGU2007-A-05269; AS1.05-1TH4O-001
Klein, R.
 An unified Approach to Meteorological Modelling based on Multiple-Scales Asymptotics (solicited)

15:45–16:00; EGU2007-A-02155; AS1.05-1TH4O-002
Wedi, N.P.; Smolarkiewicz, P.K.
 Direct numerical simulation of the Plumb-McEwan laboratory analogue of the QBO

16:00–16:15; EGU2007-A-01313; AS1.05-1TH4O-003
Achatz, U.
 Modal and nonmodal perturbations of monochromatic high-frequency gravity waves: Primary nonlinear dynamics

16:15–16:30; EGU2007-A-01941; AS1.05-1TH4O-004
LaCasce, J. H.; Isachsen, P. E.
 On Madagascar, Mozambique and Agulhas Eddies

16:30–17:00; EGU2007-A-06988; AS1.05-1TH4O-005
Rieutord, M.
 Current progress in stellar fluid dynamics: the case of rotating stars (solicited)

17:00–17:15; EGU2007-A-00680; AS1.05-1TH4O-006
Rutkevich, P.B.; Rutkevich, P.P.
 Oscillatory instability in the free turbulent atmosphere

17:15 END OF SESSION

AS1.05 Recent developments in Geophysical Fluid Dynamics – Posters

Convener: Harlander, U.
 Co-Convener(s): Ehrendorfer, M., Will, A.
 Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 13:30–15:00

Poster Area Halls X/Y
 Chairperson: EHRENDORFER, M.

XY0007; EGU2007-A-00262; AS1.05-1TH3P-0007
de Vries, H.
 Finite-time instability of atmospheric flow (solicited)

XY0008; EGU2007-A-03047; AS1.05-1TH3P-0008
 Reznik, G.M.; **Zeitlin, V.**
 Semi-transparent waveguides in GFD: resonant excitation of waveguide modes and their nonlinear evolution

XY0009; EGU2007-A-00795; AS1.05-1TH3P-0009
 Zavolgensky, M.V.; **Rutkevich, P.B.**
 Turbulent wind waves over the water stream

XY0010; EGU2007-A-03357; AS1.05-1TH3P-0010
Harlander, U.
 Do smooth non-viscous atmospheric normal modes exist?

XY0011; EGU2007-A-08598; AS1.05-1TH3P-0011
Venaille, A.; Bouchet, F.
 Free jets solutions of inertial ocean circulation

XY0012; EGU2007-A-09902; AS1.05-1TH3P-0012
Peeters, B.; Frank, J.
 Hamiltonian-based numerical methods for forced-dissipative climate prediction

XY0013; EGU2007-A-10561; AS1.05-1TH3P-0013
Bouchet, F.; Chavanis, P. H.; Sommeria, J.
 Great Red Spot and Jovian vortices as statistical equilibria of the Shallow Water model

XY0014; EGU2007-A-10967; AS1.05-1TH3P-0014
Will, A.
 Limits of predictability in a nonhydrostatic limited area model

XY0015; EGU2007-A-01014; AS1.05-1TH3P-0015
 Golitsyn, G.S.; Rutkevich, B.P.; Rutkevich, P.B.
 Dynamics of cloud formation in atmosphere due to evaporation from the ocean (solicited)

XY0016; EGU2007-A-03027; AS1.05-1TH3P-0016
 Lynch, P.; **Clark, M.**
 Parametric sensitivity of geostrophic turbulence

AS1.09 The tropical tropopause region – Posters

Convener: Schiller, C.

Co-Convener(s): Schlager, H., Pommereau, J., Vaughan, G.
 Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 08:30–10:00

Poster Area Halls X/Y

Chairperson: POMMEREAU, J.-P.

XY0017; EGU2007-A-02936; AS1.09-1TH1P-0017
Atlas, E.; Lueb, R.; Zhu, X.; Custals, L.; Tremblay, R.
 Measurements of organic bromine compounds in the UT/LS region

XY0018; EGU2007-A-04232; AS1.09-1TH1P-0018
Dorf, M.; Butz, A.; Camy-Peyret, C.; Chipperfield, M.P.;
 Feng, W.; Grunow, K.; Kritten, L.; Simmes, B.; Weidner, F.;
 Pfeilsticker, K.
 The budget of bromine and iodine and the aerosol extinction
 in the tropical UT/LS as derived from spectroscopic balloon
 observations

XY0019; EGU2007-A-10792; AS1.09-1TH1P-0019
Sturges, W.T.; Worton, D.R.; O'Sullivan, D.A.; Engel, A.;
 Laube, J.
 Very short lived halogenated organic gases in the tropical
 upper troposphere and lower stratosphere

XY0020; EGU2007-A-00853; AS1.09-1TH1P-0020
Kritten, L.; Butz, A.; Dorf, M.; Grunow, K.; Oelhaf, H.;
 Reichl, U.; Simmes, B.; Weidner, F.; Wetzel, G.; Pfeil-
 sticker, K.
 Time Resolved Profiling of Stratospheric Radical Species by
 Balloon-borne Skylight Limb Observations

XY0021; EGU2007-A-08706; AS1.09-1TH1P-0021
Mébarki, Y.; Catoire, V.; Marecal, V.; Huret, N.; Fre-
 itas, S.R.; Longo, K.; Pirre, M.
 Unexpected CO, NO_x and HCl mixing ratios above the TTL
 derived from balloon measurements at 5°S: a signature of
 air mass injection from the troposphere into the tropical
 stratosphere ?

XY0022; EGU2007-A-11081; AS1.09-1TH1P-0022
Mitev, V.; Matthey, R.; Martucci, G.; Yushkov, V.; Sit-
 nikov, N.; Lukyanov, A.; Lapshova, E.; Ulanovsky, A.;
 Ravegnani, F.
 Evidences for vertical transport connected to cirrus clouds
 formation in the tropical UTLS, observed with stratospheric
 aircraft "Geophysica"

XY0023; EGU2007-A-08435; AS1.09-1TH1P-0023
Baehr, J.; Volk, C.M.; Kuhn, A.C.; Viciani, S.;
 Ulanovski, A.; Ravegnani, F.; Schlager, H.; Stohl, A.;
 Konopka, P.
 Convective transport and mixing processes in the tropical
 tropopause region during TROCCINOX

XY0024; EGU2007-A-08238; AS1.09-1TH1P-0024
 Homan, C.D.; **Volk, C.M.;** Baehr, J.; Kuhn, A.C.;
 Werner, A.; Viciani, S.; Ulanovski, A.; Ravegnani, F.;
 Günther, G.; Brunner, D.
 Mixing of overshooting air in the TTL during the SCOUT-
 O3 Aircraft Campaign

XY0025; EGU2007-A-08007; AS1.09-1TH1P-0025
Kuhn, A.C.; Volk, C.M.; Baehr, J.; Werner, A.; Ivanova, E.;
 Konopka, P.; Ulanovski, A.; Ravegnani, F.; Viciani, S.;
 Schlager, H.

Isentropic transport and mixing in the sub-tropical UTLS
 over Brazil: Analysis of airborne tracer measurements
 during Troccinox II

XY0026; EGU2007-A-07804; AS1.09-1TH1P-0026
Yushkov, V.; Lukyanov, A.; Sitnikov, N.; MacKenzie, R.;
 Ravegnani, F.; Karpechko, A.
 Water vapour and ozone as an indicator of dynamical
 processes in the tropical UTLS

XY0027; EGU2007-A-04295; AS1.09-1TH1P-0027
Cairo, F.; Di Donfrancesco, G.; Viterbini, M.; Cardillo, F.;
 Fierli, F.; Snels, M.
 Clouds and aerosols detected by balloonborne lidars and
 backscattersondes in the UTLS during the SCOUT-AMMA
 campaign

XY0028; EGU2007-A-06631; AS1.09-1TH1P-0028
Fierli, F.; Didonfrancesco, G.; Cairo, F.; Zampieri, M.;
 Orlandi, E.
 Analysis of cirrus optical properties in convective outflow
 during the Hibiscus campaign

XY0029; EGU2007-A-07230; AS1.09-1TH1P-0029
Fierli, F.; Silvia, V.; Cairo, F.; Damato, F.; Ravegnani, F.;
 Didonfrancesco, G.; Mazzinghi, P.
 Observations and analysis of small-scale motions by Aircraft
 in the tropical UT-LS during the Troccinox 2004 field
 campaign

XY0030; EGU2007-A-07839; AS1.09-1TH1P-0030
Allen, G.; May, P.; Brunner, D.; Vaughan, G.; Zhu, M.;
 Harris, N.
 Observations of a deep tropopause fold over Darwin during
 ACTIVE and SCOUT-O3 – Implications for the TTL and
 local meteorology

XY0031; EGU2007-A-10006; AS1.09-1TH1P-0031
Heyes, W.; Vaughan, G.; Allen, G.
 A climatological evolution of ozone as expressed by
 ozonesonde measurements collected throughout the AC-
 TIVE campaign

XY0032; EGU2007-A-07534; AS1.09-1TH1P-0032
Immler, F.; Krüger, K.; Verver, G.; Fujiwara, M.;
 Schrems, O.
 Equatorial Kelvin Waves, Cirrus Clouds, and Dehydration in
 the TTL.

XY0033; EGU2007-A-03848; AS1.09-1TH1P-0033
Wetzel, G.; Oelhaf, H.; Reddmann, T.; Ruhnke, R.;
 Friedl-Vallon, F.; Kleinert, A.; Lengel, A.; Maucher, G.;
 Nordmeyer, H.
 Nitrogen chemistry and tracer correlations in the tropical
 UT/LS region from MIPAS-B measurements

XY0034; EGU2007-A-08999; AS1.09-1TH1P-0034
Chauhan, S.; THE MIPAS UTLS TEAM
 IMK/IAA retrievals of temperature and trace gases from MI-
 PAS reduced resolution (RR) mode in support of SCOUT-O3
 and AMMA campaigns

XY0035; EGU2007-A-00760; AS1.09-1TH1P-0035
Steinwagner, J.; Milz, M.; von Clarmann, T.; Höpfner, M.;
 Glatthor, N.; Grabowski, U.; Stiller, G. P.; Röckmann, T.
 HDO measurements from space

XY0036; EGU2007-A-07693; AS1.09-1TH1P-0036
Ekström, M.; Eriksson, P.; Rydberg, B.; Murtagh, D. P.
 Upper tropospheric humidity observations by Odin-SMR

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 10:30–12:00

Poster Area Halls X/Y
Chairperson: SCHILLER, C.

XY0037; EGU2007-A-09974; AS1.09-1TH2P-0037
Grosvenor, D. P.; Choularton, T. W.; Coe, H.; Held, G.
Potential effects of deep convection observed during HIBISCUS 2004 on the water vapour content of the TTL as simulated by a Cloud Resolving Model.

XY0038; EGU2007-A-10364; AS1.09-1TH2P-0038
Russo, M. R.; Hosking, J. S.; Pyle, J.
A high resolution mesoscale model of North Australia: tropical convection and its role on transport through the tropical tropopause layer (cancelled)

XY0039; EGU2007-A-02377; AS1.09-1TH2P-0039
Henriot, J. M.; Marecal, V.; Pirre, M.; Freitas, S. R.; Longo, K. M.
Vertical transport of tracers in the TTL simulated using a 3D mesoscale model

XY0040; EGU2007-A-07310; AS1.09-1TH2P-0040
Ferretti, R.; Gentile, S.; Redaelli, G.; Taddei, A.
Evaluation of the dynamical structure of deep convection in the tropics using a mesoscale model and high resolution back trajectories: a Hector event during SCOUT-O3 campaign

XY0041; EGU2007-A-09948; AS1.09-1TH2P-0041
Bonazzola, M.; James, R.; Legras, B.; Fueglistaler, S.
The Indian monsoon anticyclone water vapour trap

XY0042; EGU2007-A-06470; AS1.09-1TH2P-0042
Fueglistaler, S.; Dessler, A.; Dunkerton, T.; Folkins, I.; Fu, Q.; Mote, P.
Towards a synthesis definition of the TTL

XY0043; EGU2007-A-03886; AS1.09-1TH2P-0043
Fueglistaler, S.; Legras, B.
Fountains and drains: What do we know about the heat balance of the Tropical Tropopause Layer?

XY0044; EGU2007-A-02559; AS1.09-1TH2P-0044
Fueglistaler, S.; Fu, Q.
The impact of deep convective clouds on lower stratospheric heating rates

XY0045; EGU2007-A-08967; AS1.09-1TH2P-0045
Hamann, U.; Mayer, B.
Horizontal structure of the radiative heating rate in the tropical tropopause layer

XY0046; EGU2007-A-02343; AS1.09-1TH2P-0046
Wohltmann, I.; Rex, M.
Improved vertical and residual velocities on pressure coordinates in analysis data and application to trajectory calculations in the TTL

XY0047; EGU2007-A-08521; AS1.09-1TH2P-0047
James, R.; Legras, B.
Mixing processes at the tropical and sub-tropical tropopause

XY0048; EGU2007-A-07083; AS1.09-1TH2P-0048
Braesicke, P.; Streibel, M.; Harris, N.R.P.; Hurwitz, M.M.; Levine, J.G.; Morgenstern, O.; Pyle, J.A.
Ozone mixing ratios along the tropopause: How do models represent the transition from the tropics to the extra-tropics?

AS1.12/ST15 Joint Session of the MLT and the CAWSES program (co-organized by ST)

Convener: Lübken, F.
Co-Convener(s): Gray, L., Oberheide, J., Preusse, P., Ward, W.
Lecture Room 12 (E2)
Chairperson: PREUSSE, P.

8:30–8:45; EGU2007-A-09323; AS1.12/ST15-1TH1O-001
Yee, J. H.; Talaat, E.; Zhu, X.; Russell, J. M.; Mlynczak, M.; Paxton, L.; Skinner, W.R.
Mesosphere and Lower Thermosphere (MLT) Climatology and Variabilities

8:45–9:00; EGU2007-A-04618; AS1.12/ST15-1TH1O-002
Feofilov, A.G.; **Goldberg, R.A.;** She, C.Y.; Kutevov, A.A.; Pesnell, W.D.; Krueger, D.A.; Russell III, J.M.
The MLT over Fort Collins, Colorado (41N, 105W) as seen by SABER and lidar

9:00–9:15; EGU2007-A-01973; AS1.12/ST15-1TH1O-003
Luebken, F.-J.; Berger, U.; Herbolt, F.
Interhemispheric differences of mesospheric ice layers and implications for coupling mechanisms

9:15–9:30; EGU2007-A-08274; AS1.12/ST15-1TH1O-004
Nesse, H.; Heinrich, D.; Williams, B.; Hoppe, U.-P.; Stad-snes, J.; Rietveld, M.; Singer, W.; Blum, U.; Sandanger, M. I.; Trondsen, E.
A Case Study of a Sudden Sodium Layer Observed by the ALOMAR Weber Na Lidar

9:30–9:45; EGU2007-A-01477; AS1.12/ST15-1TH1O-005
Offermann, D.; Koppmann, R.; Oberheide, J.; Donner, M.; Jarisch, M.; Steinbrecht, W.
Recent mesosphere OH results on different time scales

9:45–10:00; EGU2007-A-08561; AS1.12/ST15-1TH1O-006
Pilger, C.; Bittner, M.
Propagation of infrasound in the atmosphere and effects on mesopause temperatures

10:00 COFFEE BREAK

Chairperson: OBERHEIDE, J.

10:30–10:45; EGU2007-A-08081; AS1.12/ST15-1TH2O-001
Gerdning, M.; Rauthe, M.; Hoeffner, J.; Schoech, A.; Luebken, F.-J.
Lidar temperature soundings from 1 - 100 km: Mean state, variability and comparison of different latitudes

10:45–11:00; EGU2007-A-04185; AS1.12/ST15-1TH2O-002
Ern, M.; **Preusse, P.;** Krebsbach, M.; Schmidt, T.; Wick-ert, J.; Picard, R.; Mlynczak, M.; Russell III, J.
QBO and SAO effects in gravity wave activity derived from SABER temperatures

11:00–11:15; EGU2007-A-02223; AS1.12/ST15-1TH2O-003
Haldoupis, C.;
Neutral atmosphere wave forcing of midlatitude sporadic E layers (solicited)

11:15–11:30; EGU2007-A-04383; AS1.12/ST15-1TH2O-004
Zhang, S. P.; McLandress, C.; Shepherd, G. G.
Monthly observations of mean winds and tides in the lower thermosphere for 1992 and 1993 by WINDII on UARS

11:30–11:45; EGU2007-A-02762; AS1.12/ST15-1TH2O-005

Grieger, N.; Achatz, U.; Schmitz, G.; Schmidt, H.; Mclandress, C.

The linear interpretation of semi-annual oscillations of migrating and nonmigrating diurnal tides in the mesosphere and lower thermosphere, revealed from different general circulation models

11:45–12:00; EGU2007-A-09200; AS1.12/ST15-1TH2O-006

Ward, W.E.; Oberheide, J.; CAWSES Tidal Campaign Team

The CAWSES global observing campaign on tides: An overview

12:00–12:15; EGU2007-A-11627; AS1.12/ST15-1TH2O-007

Sridharan, R.; Rao, P.B.; Chakravarty, S.C.

CAWSES-India: An Overview

12:15 END OF SESSION

AS1.12/ST15 Joint Session of the MLT and the CAWSES program (co-organized by ST) – Posters

Convener: Lübken, F.

Co-Convener(s): Gray, L., Oberheide, J., Preusse, P., Ward, W.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 15:30–17:00

Poster Area Halls X/Y

Chairperson: OBERHEIDE, J.

XY0049; EGU2007-A-10298; AS1.12/ST15-1TH4P-0049

Chernogor, L. F.; **Kyzyurov, Yu.**

The influence of electron heating on plasma irregularities in the lower ionosphere

XY0050; EGU2007-A-04750; AS1.12/ST15-1TH4P-0050

Rama Rao, P.V.S.; Gopi Krishna, S; Prasad, DSVVD; Raja Babu, A

Studies on space weather effects of the GPS signals during the storms of November 2004

XY0051; EGU2007-A-00719; AS1.12/ST15-1TH4P-0051

Hoffmann, P.; Jacobi, Ch.; Stober, G.; Jakowski, N.; Borries, C.; Pogoreltsev, A.

The response of the ionospheric total electron content to the stratospheric $m = 2$ westward quasi 6-day wave

XY0052; EGU2007-A-08284; AS1.12/ST15-1TH4P-0052

Zecha, M.

Characteristics of polar mesosphere summer echoes at 78N

XY0053; EGU2007-A-08585; AS1.12/ST15-1TH4P-0053

Schoech, A.; Baumgarten, G.; Fiedler, J.; **Gerding, M.**

Gravity wave variability at 69N above ALOMAR in Northern Norway

XY0054; EGU2007-A-10242; AS1.12/ST15-1TH4P-0054

Strelnikov, B.; Rapp, M.; Blix, T. A.; Luebken, F.-J.

In-situ observations of small-scale processes in the MLT at high northern latitudes

XY0055; EGU2007-A-08378; AS1.12/ST15-1TH4P-0055

Schmidt, C.; Höppner, K.; Pilger, C.; Wüst, S.; Bittner, M. Variation of $OH^*(3-1)$ rotational temperature variability on timescales of 2-60 minutes: evidence for solid earth modes and infrasound?

XY0056; EGU2007-A-03311; AS1.12/ST15-1TH4P-0056

Schmidt, T.; de la Torre, A.; Beyerle, G.; Heise, S.; Viehweg, C.; Wickert, J.; Rothacher, M.

Global analysis of gravity wave potential energy in the lower stratosphere derived from GPS radio occultation data

XY0057; EGU2007-A-04633; AS1.12/ST15-1TH4P-0057

de la Torre, A.; Schmidt, T.; Wickert, J.

A long period (2001–2007) wave activity global analysis in the troposphere-stratosphere system, from GPS RO CHAMP temperature data

XY0058; EGU2007-A-05128; AS1.12/ST15-1TH4P-0058

Sridharan, S.; Vishnu Prasanth, P; Bhavani Kumar, Y; Narayana Rao, D

Rayleigh Lidar Observations of Long-term Variations in Middle Atmospheric Temperature over Gadanki (13.5N, 79.2E)

XY0059; EGU2007-A-08684; AS1.12/ST15-1TH4P-0059

Höppner, K.; Bittner, M.

Solar Activity observed by means of OH^* -Temperature Fluctuations utilising the Differential Rotation of the Sun

XY0060; EGU2007-A-06961; AS1.12/ST15-1TH4P-0060

Selvamurugan, Raman; Narayanarao, D

Upper Mesosphere-Lower Thermosphere neutral wind Observations using Meteor trails as tracers above a low Latitude station in India

XY0061; EGU2007-A-01905; AS1.12/ST15-1TH4P-0061

Jacobi, C.; Hoffmann, P.; Kürschner, D.; Fröhlich, K.

Trends and climatic shifts in upper mesosphere/lower thermosphere planetary waves

XY0062; EGU2007-A-04367; AS1.12/ST15-1TH4P-0062

Hibbins, R.E.; Jarvis, M.J.

Quasi-biennial modulation of the semidiurnal tide in the MLT above Halley, Antarctica

XY0063; EGU2007-A-03099; AS1.12/ST15-1TH4P-0063

Kirchner, I.; Gabriel, A.; Peters, D.; Graf, H.-F.

Planetary wave propagation and circulation effects forced by zonally asymmetric ozone

XY0064; EGU2007-A-00707; AS1.12/ST15-1TH4P-0064

Dikty, S.; Pagarán, J. A.; Weber, M.; Burrows, J. P.

On the use of Fourier analysis power spectra to identify temporal connections between total ozone gain and solar UV radiation increase

XY0065; EGU2007-A-09374; AS1.12/ST15-1TH4P-0065

Palm, M.; Kopp, G.; Golchert, S.; Sinnhuber, M.; Küllmann, H.; Notholt, J.; Hochschild, G.; Hoffmann, P.

Strato-mesospheric O_3 measurements above polar and tropical regions

XY0066; EGU2007-A-01577; AS1.12/ST15-1TH4P-0066

Mlynczak, M.; Marshall, B; Martin-Torres, F; Russell, J; Thompson, R; Remsberg, E; Gordley, L

SABER observations of mesospheric ozone at 9.6 μm and from the singlet oxygen airglow

XY0067; EGU2007-A-04486; AS1.12/ST15-1TH4P-0067

Lehmann, C.; Kaufmann, M.; Hoffmann, L.; Riese, M.; v. Savigny, C.; Lopez-Puertas, M.; Funke, B.

SCIAMACHY Hydroxyl Airglow Emissions in the Mesopause Region

XY0068; EGU2007-A-09252; AS1.12/ST15-1TH4P-0068

Baumgaertner, A.J.G.; Brühl, Ch.; Jöckel, P.

Responses of Middle Atmosphere Chemistry and Dynamics to Particle Precipitation simulated with ECHAM5/MESSy

XY0069; EGU2007-A-06340; AS1.12/ST15-1TH4P-0069

Reddmann, T.; Ruhnke, R.; Wiehle, M.; Uhl, R.; Kouker, W.

Analysis of a CTM multi-annual run for solar induced variability

XY0070; EGU2007-A-09155; AS1.12/ST15-1TH4P-0070
Spanghel, T.; Cubasch, U.; Langematz, U.; Schimanke, S.
Holocene simulations to investigate the role of low frequent solar irradiance changes and stratospheric processes for climate

XY0071; EGU2007-A-07069; AS1.12/ST15-1TH4P-0071
Nissen, K.; Matthes, K.; Langematz, U.; Mayer, B.
FUBRad - a high resolution short wave radiation scheme for solar cycle studies

AS1.14 African Monsoon Multidisciplinary Analysis (AMMA) (co-listed in OS, BG, CL & SSS) – Posters

Convener: Taylor, C.

Co-Convener(s): Janicot, S.; Marticorena, B.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: REEVES, C

XY0072; EGU2007-A-04597; AS1.14-1TH3P-0072

Lumpkin, R.; McPhaden, M.; Foltz, G

Instability wave advection of SST anomalies at the Southern Boundary of the Tropical North Atlantic

XY0073; EGU2007-A-06190; AS1.14-1TH3P-0073

Key, E.; Caniaux, G.; Weill, A.; Bourras, D.; Lagain, D.; Bourlès, B.

Overview of air-sea interactions from the EGEE3/AMMA cruise

XY0074; EGU2007-A-07766; AS1.14-1TH3P-0074

Hormann, V.; Brandt, P.; Fischer, J.; Bourles, B.

Simulated and observed interannual EUC variability

XY0075; EGU2007-A-00386; AS1.14-1TH3P-0075

Gaetani, M.; Baldi, M.; Dalu, G.

A multi-linear regression method for the interannual variability of the West Africa monsoon

XY0076; EGU2007-A-03949; AS1.14-1TH3P-0076

Vintzileos, A.; Thiaw, W.; Pan, H.-L.

Subseasonal forecast of cumulative precipitation over the Sahel with the NCEP Climate Forecasting System: Impact of model resolution and initial conditions in the simulation and prediction of the West African Monsoon

XY0077; EGU2007-A-07268; AS1.14-1TH3P-0077

Cui, X.; **Morse, A. P.**

West Africa weather forecasting in AMMA-UK

XY0078; EGU2007-A-10884; AS1.14-1TH3P-0078

Rodríguez-Fonseca, B.; **Polo, I.**; Losada, T.; **García-Serrano, J.**

Summer to late winter atmospheric response to the Atlantic Equatorial mode

XY0079; EGU2007-A-07567; AS1.14-1TH3P-0079

Dell'Aquila, A.; **Ruti, PM.**; Cavaleri, O

The summer northern african circulation: a global perspective

XY0080; EGU2007-A-06630; AS1.14-1TH3P-0080

Bielli, S.; Roca, R

Water vapour budget and its spatial scale decomposition over West Africa during summer 2006 from NCEP analyses

XY0081; EGU2007-A-07373; AS1.14-1TH3P-0081

Bock, O.; Meynadier, R.; Guichard, F.; Roucou, P.; Lafore, J.P.; Janicot, S.; Bouin, M.N.; Doerflinger, E.; Masson, F.

Precipitable water and water vapour transport over West Africa from GPS data and ECMWF analysis during the AMMA project

XY0082; EGU2007-A-07661; AS1.14-1TH3P-0082

Leroux, S.; Hall, N.

African Easterly Waves in a Regional Climate Model

XY0083; EGU2007-A-08668; AS1.14-1TH3P-0083

Messenger, CJ.; Reitebuch, O.; Parker, D

Structure and dynamics of the Saharan Heat Low observed during the AMMA-SOP 2006 campaign

XY0084; EGU2007-A-02279; AS1.14-1TH3P-0084

Sultan, B.; **Janicot, S.**; Drobinski, P.J.

Characterization of the diurnal cycle of the West African monsoon around the monsoon onset

XY0085; EGU2007-A-02436; AS1.14-1TH3P-0085

Chaboureaud, J.-P.; Tulet, P.; Mari, C.

Diurnal cycle of dust and cirrus over West Africa as seen from Meteosat Second Generation satellite and a regional forecast model

XY0086; EGU2007-A-08594; AS1.14-1TH3P-0086

Stanelle, T.; Vogel, B.; Vogel, H.; Bäumer, D.; Kottmeier, C.

A dust outbreak over West Africa and its impact on the state of the atmosphere: A model study with LM-ART

XY0087; EGU2007-A-09249; AS1.14-1TH3P-0087

Roehrig, R.; Grandpeix, J.-Y.; Lafore, J.-P.

Implementation of a density current parametrization in the LMDZ4 GCM

XY0088; EGU2007-A-05480; AS1.14-1TH3P-0088

Fink, A. H.; Knippertz, P.

An unusual rainfall episode north and south of the Sahara: the interaction of an extratropical disturbance with the dry-season heat low

XY0089; EGU2007-A-05533; AS1.14-1TH3P-0089

Pohle, S.; Fink, A.H.; Knippertz, P.

Case studies of extra-tropically forced rainfall events during the AMMA SOP year 2006

XY0090; EGU2007-A-10447; AS1.14-1TH3P-0090

Bongioannini Cerlini, P.; Fantini, M.; Malguzzi, P.

Idealized study of convection using a 3D CRM in radiative-convective equilibrium

XY0091; EGU2007-A-09199; AS1.14-1TH3P-0091

Melani, S.; Pasqui, M.; Antonini, A.; Gozzini, B.; Guarnieri, F.; Ortolani, A.

Convective precipitation patterns analysis in the Sahelian area: satellite rainfall estimates and regional numerical modelling

XY0092; EGU2007-A-08207; AS1.14-1TH3P-0092

Söhne, N.; Chaboureaud, J.-P.; Guichard, F.

Cloud system variability over West Africa in summer 2006 as seen from Meteosat Second Generation satellite and a regional forecast model

XY0093; EGU2007-A-03363; AS1.14-1TH3P-0093

Arnault, J.; Roux, F.; Chong, M

Characteristics of West African MCS observed with dropsondes during AMMA

XY0094; EGU2007-A-01899; AS1.14-1TH3P-0094

Lamrani, N.; Chong, M.

Doppler radar observations of precipitation systems during AMMA SOP 2-a2

XY0095; EGU2007-A-08015; AS1.14-1TH3P-0095

Pollack, D.; Beau, I.; Beucher, F.; Guerey, J-F; Marquet, P
Validation of convective and turbulence parameterizations in tropical areas. The case of Neutral and convective Planetary Boundary Layer

XY0096; EGU2007-A-02023; AS1.14-1TH3P-0096

Lothon, M.; Durand, P.; **Lohou, F.**; Said, F.

Airborne measurements in the lower atmosphere for the study of small scales processes involved in the West African Monsoon system

XY0097; EGU2007-A-07105; AS1.14-1TH3P-0097

Guichard, F.; Kergoat, L.

variability of the daytime sahelian boundary layer sampled at Agoufou via tethered balloon and kite flights in August 2006

XY0098; EGU2007-A-03274; AS1.14-1TH3P-0098

Taylor, C. M.; Parker, D. J.; Harris, P. P.

Airborne observations of mesoscale airflow induced by soil moisture: a case study from the AMMA Special Observing Period

XY0099; EGU2007-A-08651; AS1.14-1TH3P-0099

Kohler, M.; Preko, K.; Kalthoff, N.; Gantner, L.; Schädler, G.; Kottmeier, Ch.

Soil moisture variability and the impact of soil moisture on the energy balance and PBL structure

XY0100; EGU2007-A-03289; AS1.14-1TH3P-0100

Lohou, F.; Serça, D.; Campistron, C.; Lothon, M.; Kergoat, L.; Mariscal, A.

Ground-based measurement in a humid savannah of West Africa (Benin)

XY0101; EGU2007-A-07420; AS1.14-1TH3P-0101

Zribi, M.; André, C.; Decharme, B.

Soil moisture mapping in Western Africa based on ERS Scatterometer

XY0102; EGU2007-A-10216; AS1.14-1TH3P-0102

Pellarin, T.; Tran, T.; Messager, C.

First comparisons between surface soil moisture products derived from land surface temperature anomalies and microwave radiometric measurements over West Africa

XY0103; EGU2007-A-08481; AS1.14-1TH3P-0103

Samain, O; Hiernaux, P; Mougou, E; Timouk, F; Lavenu, F; Guichard, F; **Kergoat, L**

Sahelian albedo variability from in situ and MODIS data

XY0104; EGU2007-A-10383; AS1.14-1TH3P-0104

Todd, MC; Washington, R

Dust emission from the Bodélé Depression, Northern Chad: Results from BoDEx 2005

XY0105; EGU2007-A-03853; AS1.14-1TH3P-0105

Sow, M.; Rajot, J.L.; Alfaro, S.C.; Marticorena, B.

On-field measurement of size resolved dust emission flux in Niger during AMMA

XY0106; EGU2007-A-09140; AS1.14-1TH3P-0106

Formenti, P.; THE AMMA-DUST TEAM

Properties of aerosols in the west African dry and wet seasons: results from the ground-based and airborne measurements within the AMMA campaign

XY0107; EGU2007-A-09185; AS1.14-1TH3P-0107

Formenti, P.; THE AMMA-UKBAe146 aerosols TEAM

Size distribution, morphology, and composition of mineral dust and biomass burning aerosols from western Africa as observed by scanning and transmission electron microscopy

XY0108; EGU2007-A-06982; AS1.14-1TH3P-0108

Di Donfrancesco, G.; Cairo, F.; Fierli, F.; Viterbini, M.; Cardillo, F.; Snels, M.; Rajot, J.L.; Marticorena, B.; Formenti, P.; Chatenet, B.

Lidar measurements of aerosol vertical profiles from Bani-zoumbou (Niger), Cinzana (Mali), M'bour (Senegal)

XY0109; EGU2007-A-08962; AS1.14-1TH3P-0109

Hamburger, Th.; Minikin, A.; Schlager, H.; **Fiebig, M.**; Petzold, A.

Airborne measurements of tropospheric aerosol up to 12 km over West Africa during the monsoon season in August 2006

XY0110; EGU2007-A-09871; AS1.14-1TH3P-0110

Chazette, P.; Sanak, J.; Dulac, F.

Observation of multilayer aerosol structures from an ultra light aircraft in the frame of the African Monsoon Multidisciplinary Analysis

XY0111; EGU2007-A-04267; AS1.14-1TH3P-0111

Boukaram, D.B.; Flamant, C.; Chaboureaud, J.-P.; Tulet, P. Saharan dust lofting by Harmattan and monsoon flows convergence: Numerical Modelling and Lidar observations.

XY0112; EGU2007-A-04041; AS1.14-1TH3P-0112

Capes, G.; Coe, H

Biomass Burning and Dust Aerosol in West Africa: Highlights from the AMMA SOP0 experiment

XY0113; EGU2007-A-04186; AS1.14-1TH3P-0113

Mallet, M.; Pont, V.; Lioussé, C.; Gomes, L.; Pelon, J.; Osborne, S.; Haywood, J.; Mariscal, A.; Dubuisson, P.; Roger, J.C.

Aerosols direct radiative forcing on Djougou (Northern Benin) during the AMMA dry season experiment.

XY0114; EGU2007-A-00930; AS1.14-1TH3P-0114

Journet, E.; Desboeufs, K.; Triquet, S.; Rajot, J.L.; Formenti, P.

What are the aerosols serving as CCN for the formation of squall lines? And what are their impacts on the atmospheric iron flux to the marine biosphere?

XY0115; EGU2007-A-09709; AS1.14-1TH3P-0115

LAVAYSSE, C.; PELON, J.; FLAMANT, C.

Validation and synoptic environment of dust aerosol events detected by OMI index during the AMMA SOP

XY0116; EGU2007-A-08074; AS1.14-1TH3P-0116

McConnell, C; **Highwood, E**; Coe, H; Haywood, J; Formenti, P; Osborne, S; Capes, G; McQuaid, J; Harrison, M; Ackerley, D

The DODO project: Dust Outflow and Deposition to the Ocean

XY0117; EGU2007-A-03883; AS1.14-1TH3P-0117

Lioussé, C.; Guillaume, B; Konaré, A; Grégoire, J.M.; Solmon, F; Poirson, A; Granier, C; Rosset, R; Cachier, H

Fossil fuel, Biofuel and Biomass burning emission inventories for gases and particles in Africa with tentative validations with global TM4 and regional RegCM aerosol modeling for the year 2000.

XY0118; EGU2007-A-01947; AS1.14-1TH3P-0118

Delon, C.; Serça, D.; Dupont, R.; Mari, C.; Chaboureaud, J.P.

Impact of NO emissions from soils on ozone formation under tropical conditions

XY0119; EGU2007-A-03585; AS1.14-1TH3P-0119

Stewart, D.; Taylor, C; Reeves, C

Influence of soil moisture on the chemical composition of the boundary layer during AMMA 2006.

XY0120; EGU2007-A-10398; AS1.14-1TH3P-0120

Commane, R.; Floquet, C.; Ingham, T.; **Heard, D.**

Aircraft FAGE measurements of OH and HO₂ radicals over West Africa during the AMMA campaign, July/August 2006

XY0121; EGU2007-A-06921; AS1.14-1TH3P-0121

Borbon, A.; Afif, C.; Bechara, J.; Jambert, C.; Kukui, S.; Madec, P.; Perros, PE

First perspective on the impact of West African Monsoon on tropospheric chemistry : some lessons from the French Airborne Measurements of Major Photooxidants during the AMMA Experience

XY0122; EGU2007-A-06802; AS1.14-1TH3P-0122

Methven, J.; Schlager, H.; Kukui, A.

Intercomparison of measurements made from 4 research aircraft during the AMMA experiment

XY0123; EGU2007-A-00391; AS1.14-1TH3P-0123

Saunois, M.; Mari, C.; Thouret, V.; Cammas, J.P.; Peyrillé, P.; Lafore, J.P.; Redelsperger, J.L.; Sauvage, B.; Nédélec, P.; Pinty, J.P.

An idealized two-dimensional model approach to study the impact of the West African monsoon on the tropospheric ozone latitudinal gradient.

XY0124; EGU2007-A-08034; AS1.14-1TH3P-0124

Yang, X.; Carver, G.; Pyle, J

Model simulations of atmospheric oxidation and chemical species transports over West Africa

XY0125; EGU2007-A-09517; AS1.14-1TH3P-0125

Bouarar, I.; Law, K.; Pham, M.; Filiberti, M.; Hourdin, F.; Hauglustaine, D.; THE AMMA DATA TEAM

Evaluation of the LMDzINCA chemistry transport model during the West African monsoon 2006

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 15:30–17:00

AS Poster Area

Chairperson: N.N.

AS3.04 Tropospheric Composition: Variability and Trends

Convener: Tarasova, O.

Co-Convener(s): Schultz, M.

Lecture Room 12 (E2)

Chairperson: MANNING, A. J.; BEIRLE, S.

13:30–13:45; EGU2007-A-08799; AS3.04-1TH3O-001

Vollmer, M. K.; SOGE-A Team

Continuous in-situ measurements of atmospheric halocarbons and SF6 from Shangdianzi station, China

13:45–14:00; EGU2007-A-06438; AS3.04-1TH3O-002

Legrand, M.; Preunkert, S.; Wagenbach, D.; Cerquair, M.; Fagerli, H.; Pio, C.; Simpson, D.; Vestreng, V.

Major 20th century changes of carbonaceous aerosol components (EC, WinOC, DOC, and carboxylic acids) derived from Alpine ice cores

14:00–14:30; EGU2007-A-09168; AS3.04-1TH3O-003

Novelli, P.C.; Conway, T.J.; Dlugokencky, E.J.; Masarie, K.A.; Tans, P.P.

Time series of CO, CO2 and CH4 as a function of altitude above Molokai, Hawaii and Rarotonga, Cook Islands. (solicited)

14:30–14:45; EGU2007-A-00281; AS3.04-1TH3O-004

Yates, E.; Shallcross, D. E.; Simmonds, P. G.; Grealley, B.; O'Doherty, S.; Nickless, G

Seasonal Variations of Nonmethane Hydrocarbons at Mace Head, Ireland.

14:45–15:00; EGU2007-A-01380; AS3.04-1TH3O-005

Stohl, A.; Arctic smoke team

Arctic smoke - the role of biomass burning for the chemical composition and aerosol content of the Arctic atmosphere

15:00 COFFEE BREAK

Chairperson: TARASOVA, O.; RICHTER, A.

15:30–15:45; EGU2007-A-05795; AS3.04-1TH4O-001

Struzewska, J.; Kaminski, J. W.

Long term analysis of surface ozone from EMEP station and comparison with GEM-AQ

15:45–16:00; EGU2007-A-03821; AS3.04-1TH4O-002

Manning, A. J.; O'Doherty, S.; Grealley, B.; Simmonds, P.; Derwent, R. G.

Understanding the annual and seasonal trends in observations from Mace Head, Ireland using an atmospheric transport model

16:00–16:15; EGU2007-A-04400; AS3.04-1TH4O-003

Schultz, M.G.; The RETRO team

Long-term changes in the global emissions of CO and NOx and implications for the tropospheric chemical composition

16:15–16:30; EGU2007-A-02383; AS3.04-1TH4O-004

Rast, S.; Schultz, M.G.

A modelling study on trends and variability of the tropospheric chemical composition over the last 40 years - sensitivity to emission and meteorological variability and insights from multi-model ensembles

16:30–16:45; EGU2007-A-08525; AS3.04-1TH4O-005

Pérez, C.; Jiménez, P.; Jorba, O.; Baldasano, J.M.; Cuevas, E.; Nickovic, S.; Querol, X.

Long-term trends (1987-2006) of Saharan dust over the Mediterranean and the Canary Islands with the DREAM regional dust model

16:45–17:00; EGU2007-A-07530; AS3.04-1TH4O-006

Ishijima, K.; Patra, P. K.; Takigawa, M.; Miyazaki, K.; Nakazawa, T.; Machida, T.; Morimoto, S.

Effect of atmospheric transport on seasonal and interannual variations in the atmospheric nitrous oxide concentration

17:00 END OF SESSION

AS3.05 Vertical and Long-Range Transport of Trace Gases and Aerosols

Convener: Lawrence, M.

Co-Convener(s): Stohl, A.

Lecture Room 1 (G)

Chairperson: N.N.

8:30–8:45; EGU2007-A-03903; AS3.05-1TH1O-001

Lund Myhre, C.; Toledano, C.; Myhre, G.; Stebel, K.; Frioud, M.; Yttri, K. E.; Johnsrud, M.

Aerosol optical properties and distribution during the extreme Arctic haze event in spring 2006

8:45–9:00; EGU2007-A-01494; AS3.05-1TH1O-002

Eckhardt, S.; Breivik, K.; Manoe, S.; Stohl, A.

Record high peaks in PCB concentrations in the Arctic atmosphere due to long-range transport of biomass burning emissions

9:00–9:15; EGU2007-A-01392; AS3.05-1TH1O-003

Golitsyn, G.; **Granberg, I.**; Dobryshman, E.; Grechko, E.; Artamonova, M.; Dzhol, A.; Kramar, V.; Maksimenkov, L.; Pogarsky, F.; Ponomarev, V.

Modeling of transport of trans-boundary carbon dioxide and other admixtures over Siberia within the AEROSIB-YAK project

9:15–9:30; EGU2007-A-00197; AS3.05-1TH1O-004
Paton-Walsh, C.; Gueroa, G.; Jones, N.; Wilson, S.;
 Deutscher, N.; Griffith, D.; Forgan, B.
 Modeling Biomass Burning Emissions using Satellite
 Observations of Aerosol Optical Depth

9:30–9:45; EGU2007-A-06238; AS3.05-1TH1O-005
Labonne, M.; Bréon, F-M; Chevallier, F
 Injection height of biomass burning aerosol as seen from a
 spaceborne lidar

9:45–10:00; EGU2007-A-09730; AS3.05-1TH1O-006
Lupu, A.; The ACE-MAQNet team
 Alaskan and western Canadian wildfires in the summer
 2004: GEM-AQ simulations and comparison with ACE
 satellite measurements

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-10013; AS3.05-1TH2O-001
Wang, P. K.
 Recent new evidences of deep convective vertical transport
 of water vapor through the tropopause

10:45–11:00; EGU2007-A-07548; AS3.05-1TH2O-002
Ordóñez, C.; Cammas, J. P.; Stein, O.; Segers, A.;
 Moinat, P.; Schultz, M. G.; Volz-Thomas, A.; Thomas, K.
 Evaluation of modelled upper tropospheric carbon monoxide
 and ozone over the Northern Hemisphere by comparison
 with MOZAIC measurements

11:00–11:15; EGU2007-A-04366; AS3.05-1TH2O-003
Bozem, H.; THE GABRIEL TEAM
 Influence of convection on ozone production in the free
 troposphere during GABRIEL

11:15–11:30; EGU2007-A-03788; AS3.05-1TH2O-004
Fabian, P.; Rollenbeck, R.; Spichtinger, N.; Brothers, L.;
 Thiemens, M.
 Sahara Dust, Biomass Burning, Volcanoes: Pathways of nutri-
 ent transport into South American Rainforests

11:30–11:45; EGU2007-A-03785; AS3.05-1TH2O-005
Belmonte, J.; Alarcon, M.; Avila, A.
 Long-range transport of Fagus pollen over Catalonia (North-
 East Spain)

11:45–12:00; EGU2007-A-05111; AS3.05-1TH2O-006
Liu, J.; Mauzerall, D.; Horowitz, L.
 Evaluating the global health impact of inter-continental
 transport of sulfate aerosol

12:00 END OF SESSION

AS3.05 Vertical and Long-Range Transport of Trace Gases and Aerosols – Posters

Convener: Lawrence, M.
 Co-Convener(s): Stohl, A.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 13:30–15:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0126; EGU2007-A-04218; AS3.05-1TH3P-0126
Tost, H.; Jöckel, P.; Lawrence, M.; Lelieveld, J.
 Convective transport and scavenging of trace species in
 the atmosphere - How to treat these two contrarian vertical
 transport mechanisms in global models?

XY0127; EGU2007-A-02313; AS3.05-1TH3P-0127
Orgis, Th.; Brand, S.; Schwarz, U.; Kurths, J.; Dethloff, K.
 3D Tracer advection in ECHO-GiSP GCM

XY0128; EGU2007-A-04287; AS3.05-1TH3P-0128
Guillaume, B.; Liousse, C.; Rosset, R.; Mallet, M.; Pois-
 son, N.
 Global modelling of aerosol transport and optical properties
 with ORISAM-TM4 model in sectional framework includ-
 ing organics, inorganics, dust and sea-salts

XY0129; EGU2007-A-02891; AS3.05-1TH3P-0129
Menegoz, M.; Etchevers, I.; Martet, M.; Michou, M.;
 Peuch, V-H.; Salas melia, D.; Teyssèdre, H.
 A global three-dimensional study of sulphates, black-carbon,
 dust and sea-salt aerosols

XY0130; EGU2007-A-11171; AS3.05-1TH3P-0130
Tombette, T.; Chazette, C.; Sportisse, S.
 Model-to-data AOT Comparisons between Aeronet mea-
 surements and simulations with the Polyphemus system over
 Europe

XY0131; EGU2007-A-08348; AS3.05-1TH3P-0131
Veihelmann, B.; Veeffkind, J.P.; Braak, R.; Sneep, M.; de
 Haan, J.F.; Levelt, P.F.
 Aerosol properties from OMI: Validating height information
 using space borne lidar data

XY0132; EGU2007-A-07756; AS3.05-1TH3P-0132
Szegvary, T.; Ginoux, P.; Leuenberger, M.C.; Conen, F.
 European ²²²Rn flux map for atmospheric tracer applica-
 tions

XY0133; EGU2007-A-05971; AS3.05-1TH3P-0133
Miyazaki, K.; Patra, P.; Nakazawa, T.; Takigawa, M.
 Transport analysis of tropospheric carbon dioxide

XY0134; EGU2007-A-08892; AS3.05-1TH3P-0134
Font, A.; Morguí, J.A.; Rodó, X
 Assessing the spatial coverage of aircraft CO₂ measurements
 in the Iberian Peninsula

XY0135; EGU2007-A-00510; AS3.05-1TH3P-0135
Macatangay, R.; Warneke, T.; Notholt, J.; Gerbig, C.;
 Schrems, O.
 Carbon Dioxide Concentrations from Solar Absorption
 FTIR Spectrometry and Inferring CO₂ Sources and Sinks
 using the STILT / ROAM

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 15:30–17:00

Poster Area Halls X/Y
 Chairperson: N.N.

XY0136; EGU2007-A-09408; AS3.05-1TH4P-0136
Real, E.; Law, K.; Methven, J.; Roiger, A.; Holloway, J.;
 Neuman, A.; Ryerson, T.; Schlager, H.; Parrish, D
 Factors controlling pollutant plume processing in the lower
 troposphere

XY0137; EGU2007-A-03162; AS3.05-1TH4P-0137
Jones, N. B.; Paton-Walsh, C.; Gueroa, G.; Wilson, S. R.;
 Griffith, D. W.; Fromm, M.; Wood, S. W.; Bodeker, G. E.;
 Thomas, A. J.
 Long range transport of intense biomass plumes from
 forest fires in Australia during the 2002/2003 summer:
 measurements and 3-D chemical transport modeling of the
 emission plumes

XY0138; EGU2007-A-01378; AS3.05-1TH4P-0138
Pfister, G.G.; Emmons, L.K.; Edwards, D.P.; Hess, P.G.;
 Gille, J.C.
 Transpacific Pollution Transport during INTEX-B in Rela-
 tion to Other Years

XY0139; EGU2007-A-08296; AS3.05-1TH4P-0139
Braak, R.; Torres, O.; Veiheilmann, B.; Veeffkind, J. P.; Kroon, M.; Levelt, P.
 OMI UV absorbing aerosol index as a tracer for transport of Australian biomass burning aerosols

XY0140; EGU2007-A-10179; AS3.05-1TH4P-0140
Müller, D.; Mattis, I.; Ansmann, A.; Wandinger, U.; Ritter, C.; Kaiser, D.
 Particle Growth During Long-Range Transport of Forest-Fire Smoke in the Free Troposphere Observed with Multiwavelength Raman Lidar

XY0141; EGU2007-A-06255; AS3.05-1TH4P-0141
Henne, S.; Klausen, J.; Kariuki, J.; Buchmann, B.
 Air Pollution Transport towards Mt. Kenya Global GAW Station

XY0142; EGU2007-A-07859; AS3.05-1TH4P-0142
Marinoni, A.; THE ABC-Pyramid TEAM
 Continuous measurements of aerosol parameters at the ABC-Pyramid Observatory (Nepal, 5079 m asl)

XY0143; EGU2007-A-07913; AS3.05-1TH4P-0143
Cristofanelli, P.; Calzolari, F.; Bonafè, U.; Marinoni, A.; Roccato, F.; Vuillermoz, E.; Verza, G.P.; Bonasoni, P.
 Tropospheric ozone behaviour at the ABC-Pyramid Observatory (Nepal, 5079 m asl)

XY0144; EGU2007-A-02265; AS3.05-1TH4P-0144
Kaiser, A.; Scheffinger, H.; Spangl, W.; Weiss, A.; Gilge, S.; Fricke, W.; Ries, L.; Cemas, D.; Jesenovec, B.
 Transport of nitrogen oxides, carbon monoxide and ozone to the Alpine Global Atmosphere Watch stations Jungfraujoch (Switzerland), Zugspitze and Hohenpeissenberg (Germany), Sonnblick (Austria) and Mt. Kravec (Slovenia). A contribution to the GAW-DACH co-operation.

XY0145; EGU2007-A-01582; AS3.05-1TH4P-0145
Retalis, A.; Michaelides, S.; Paronis, D.; Tymvios, F.; Constantinides, P.; Evripidou, P.; Kleanthous, S.
 Air quality study over Cyprus: The AERAS project

XY0146; EGU2007-A-03729; AS3.05-1TH4P-0146
Meloni, D.; di Sarra, A.; Biavati, G.; DeLuisi, J. J.; Monteleone, F.; Pace, G.; Piacentino, S.; Sferlazzo, D. M.
 Seasonal behavior of Saharan dust events at the Mediterranean island of Lampedusa in the period 1999-2005

XY0147; EGU2007-A-09844; AS3.05-1TH4P-0147
Kosmopoulos, P.; Kaskaoutis, D.G.; Kambezidis, H.D.; Nastos, P.; Badarinarath, K.V.S.
 Identification of Saharan dust events over Athens using remote sensing data and back-trajectory analysis

XY0148; EGU2007-A-10080; AS3.05-1TH4P-0148
Tsamalis, C.; Ravetta, F.; Ancellet, G.; Gheusi, F.; Chevalier, A.; Delmas, R.; Delbarre, H.; Leroy, C.; Colette, A.; Campistron, B.
 Analysis of ozone variability during the campaign PIC2005

AS3.08 Reactive Halogen Compounds in the Lower and the Free Troposphere

Convener: Sander, R.
 Co-Convener(s): von Glasow, R.
 Lecture Room 1 (G)
 Chairperson: ROLF SANDER

13:30–13:45; EGU2007-A-02418; AS3.08-1TH3O-001
Saiz-Lopez, A.; Boxe, C.
 Modeling of gas phase halogen chemistry over Antarctic sea ice

13:45–14:00; EGU2007-A-01322; AS3.08-1TH3O-002
Piot, M.; v. Glasow, R.
 The Importance of Calcium Carbonate (CaCO₃) Precipitation on the Bromine Explosion

14:00–14:15; EGU2007-A-10921; AS3.08-1TH3O-003
Toyota, K.; McConnell, J. C.; The GEM-AQ Arctic Chemistry Science Team
 'Siberian Express' of reactive bromine transport from the Arctic Ocean: GEM-AQ model runs

14:15–14:30; EGU2007-A-11010; AS3.08-1TH3O-004
Ariya, P. A.; Raofie, F.; Snider, G.; Lin, S.
 Laboratory Redox Kinetic and Product Studies of Selected Mercury Species

14:30–14:45; EGU2007-A-00641; AS3.08-1TH3O-005
Cheng, J.; Vecitis, C. D.; Colussi, A. J.; Hoffmann, M. R.
 Experimental Anion Affinities for the Air/Water Interface

14:45–15:00; EGU2007-A-08936; AS3.08-1TH3O-006
Hemminger, J. C.; Krisch, M. J.; D'Auria, R.; Brown, M. A.; Ammann, M.; Starr, D. E.; Bluhm, H.; Tobias, D. J.
 The impact of organic surfactants on halide ion concentrations at the aqueous liquid/vapor interface

15:00 COFFEE BREAK

Chairperson: ROLAND VON GLASOW

15:30–15:45; EGU2007-A-10701; AS3.08-1TH4O-001
McFiggans, G.; The RHAMBLE coastal team
 Iodine-mediated ultrafine particle formation in the RHAMBLE Roscoff 2007 coastal experiment

15:45–16:00; EGU2007-A-10252; AS3.08-1TH4O-002
Whalley, L.; Furneaux, K.; Gravestock, T.; Bale, C.; Ingham, T.; Bloss, W.; **Heard, D.**
 IO measurements in the marine boundary layer using laser-induced fluorescence spectroscopy

16:00–16:15; EGU2007-A-06825; AS3.08-1TH4O-003
Jones, C. E.; Hornsby, K. E.; Carpenter, L. J.
 Coastal and open ocean sea-air fluxes of volatile halocarbons in the Atlantic Ocean

16:15–16:30; EGU2007-A-07919; AS3.08-1TH4O-004
Dillon, T.J.; Tucceri, M.E.; Crowley, J.N.
 The reactions IO + NO₃ → OIO + NO₂, and I + NO₃ → IO + NO₂, - rate coefficients and product yields by LIF detection of IO.

16:30–16:45; EGU2007-A-08704; AS3.08-1TH4O-005
Pfeilsticker, K.; Camy-Peyret, C.; Engel, A.; Laube, J.; Lotter, A.; Schwärzle, J.; O'Sullivan, D. A.; Sturges, W. T.; DOAS Balloon Team
 Inorganic iodine and bromine in the coastal troposphere of northeastern Brazil

16:45–17:00; EGU2007-A-03757; AS3.08-1TH4O-006
Kerkweg, A.; Jöckel, P.; Sander, R.; Tost, H.; Lelieveld, J.
 Consistent simulation of bromine chemistry from the marine boundary layer to the stratopause

17:00 END OF SESSION

AS3.08 Reactive Halogen Compounds in the Lower and the Free Troposphere – Posters

Convener: Sander, R.

Co-Convener(s): von Glasow, R.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: ROLF SANDER, ROLAND VON GLASOW

XY0149; EGU2007-A-07775; AS3.08-1TH2P-0149

Hutterli, M. A.; Huthwelker, T.; Ammann, M.; Miedaner, M. M.; Enzmann, F.; Schneebeli, M.; Jones, A. E.; Wolff, E.W.

Growing individual artificial frost flowers and first results from 3-D X-ray micro computer tomography

XY0150; EGU2007-A-09705; AS3.08-1TH2P-0150

Hay, T.; Kreher, K.; Riedel, K.; Johnston, P.; Thomas, A.; **McDonald, A**

Investigation of Bromine Explosion Events in McMurdo Sound, Antarctica

XY0151; EGU2007-A-10492; AS3.08-1TH2P-0151

ter Schure, A F H; Levin, L

The Global Importance of Bromine on the Atmospheric Chemistry of Mercury.. Is Br the missing mercury oxidant in the free troposphere?

XY0152; EGU2007-A-10505; AS3.08-1TH2P-0152

Theys, N.; Errera, Q.; Chabrilat, S.; Daerden, F.; Hendrick, F.; Loyola, D.; Valks, P.; Van Roozendaal, M.

A new stratospheric BrO climatology based on dynamical and photochemical tracers

XY0153; EGU2007-A-00592; AS3.08-1TH2P-0153

Schoenhardt, A.; Richter, A.; Wittrock, F.; Burrows, J. P.

First observations of atmospheric iodine oxide columns from satellite

XY0154; EGU2007-A-03038; AS3.08-1TH2P-0154

Roeselová, M.

Oxidation of NaBr aerosol by ozone and solvation of alkyl bromides at the air/water interface: Modeling heterogeneous atmospheric processes by molecular dynamics simulations

XY0155; EGU2007-A-05154; AS3.08-1TH2P-0155

Liu, Y.; Cain, J.; Ezell, M.; Wang, H.; Finlayson-Pitts, B.; **Laskin, A.**

Kinetic Studies of the Heterogeneous Reactions of NaCl Particles Using A Novel Experimental Approach.

XY0156; EGU2007-A-05078; AS3.08-1TH2P-0156

Sjostedt, S.; Abbatt, J

Gas-phase bromine production from NaBr and NaBr/NaCl: A study of aqueous and frozen solutions and dry salts

XY0157; EGU2007-A-09095; AS3.08-1TH2P-0157

Hemminger, J. C.; Brown, M. A.; Krisch, M. J.; Mun, B. S. An ambient pressure photoelectron spectroscopy study of the reaction of ozone with an alkali halide surface and the impact of water

XY0158; EGU2007-A-06716; AS3.08-1TH2P-0158

Parthipan, R.; Carpenter, LJ

Aqueous iodine chemistry : implications for the atmospheric chemistry

XY0159; EGU2007-A-06811; AS3.08-1TH2P-0159

Smoydzin, L.; von Glasow, R.

Modeling bromine chemistry in the lower boundary layer over the Dead Sea

XY0160; EGU2007-A-10695; AS3.08-1TH2P-0160

Putz, E.

the formation of trichloroacetic acid and its Input into the vegetation of various climatic zones in Russia

XY0161; EGU2007-A-00538; AS3.08-1TH2P-0161

Arsene, C.; Bougiatioti, A.; Mihalopoulos, N.

Indirect evidence of chlorine atom concentration in the lower troposphere of the Eastern Mediterranean

XY0162; EGU2007-A-07989; AS3.08-1TH2P-0162

Gershenson, Yu.; Shestakov, D.; Aparina, E.; Zelenov, V.; Park, J.; Ivanov, A.; Molina, M.

Chlorine Activation in Coastal and Remote Marine Boundary Layer (cancelled)

XY0163; EGU2007-A-03963; AS3.08-1TH2P-0163

Pechtl, S.; **von Glasow, R.**

Reactive chlorine in the marine boundary layer in the outflow of polluted continental air: a model study

XY0164; EGU2007-A-10124; AS3.08-1TH2P-0164

Butler, J.; Wallace, D.; Carpenter, L.; Hall, B.; Montzka, S.; Quack, B.; Atlas, E.

A need for intercalibration of atmospheric and oceanic measurements of short-lived halocarbons

XY0165; EGU2007-A-03639; AS3.08-1TH2P-0165

Seitz, K.; Platt, U.; Poehler, D.; Martin, M.; Stein, T.

DOAS measurements of halogens in the framework of the MAP (Marine Aerosol Production) project

XY0166; EGU2007-A-03144; AS3.08-1TH2P-0166

Vecitis, C. D.; Cheng, J.; Colussi, A. J.; **Hoffmann, M. R.**

Oxidation of aerosolized iodide by gaseous ozone

AS3.12 Megacity Impacts on Regional and Global Scales – Posters

Convener: Molina, L.

Co-Convener(s): Capilla, C., Gaffney, J., Kokhanovsky, A., Marley, N.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: MARLEY, N. AND CAPILLA, C.

XY0167; EGU2007-A-07196; AS3.12-1TH2P-0167

Butler, T. M.; Lawrence, M. G.; Gurjar, B. R.; van Aardenne, J.; Schultz, M.; Lelieveld, J.

Modelling the Effects of Megacities on Global Atmospheric Chemistry

XY0168; EGU2007-A-05937; AS3.12-1TH2P-0168

Markakis, K.; Katragkou, E.; Poupkou, A.; Melas, D

Compilation of an anthropogenic emission inventory for Greece and the two urban centres of Athens and Thessaloniki

XY0169; EGU2007-A-06537; AS3.12-1TH2P-0169

Mamtimin, B.; Meixner, F.X.

The characteristics of air pollution in the semi-arid City of Urumqi (NW China) and its relation to climatological processes

XY0170; EGU2007-A-06577; AS3.12-1TH2P-0170

Garcia-Manuel, A.; Martin-Vide, J.; Moreno, M. C.; Lopez-Bustins, J. A.; Sanchez-Lorenzo, A.

Detecting recent spatial changes in the urban heat island of a medium-sized city due to the increasing human activity

XY0171; EGU2007-A-08959; AS3.12-1TH2P-0171

Rose, D.; PRD CCN Team

Cloud condensation nuclei (CCN) concentrations and efficiencies measured near Guangzhou, China during the PRIDE-PRD2006 campaign

XY0172; EGU2007-A-05239; AS3.12-1TH2P-0172

Galle, B.; Mellqvist, J.; Johansson, M.; Rivera, C.; Samuels-son, J.; Zhang, Y.

Optical Remote Sensing measurements of air pollution in Mexico City during MCMA-2006

XY0173; EGU2007-A-02862; AS3.12-1TH2P-0173

Kokhanovsky, A. A.; von Hoyningen-Huene, W.

The determination of particulate matter concentration from space

XY0175; EGU2007-A-00901; AS3.12-1TH2P-0175

Velasco, E.; Marquez, C.; Bueno, E.; Bernabe, R.M.; Sanchez, A.; Fentanes, O.; Molina, L.T.; Wakamatsu, S.
Vertical profiles of ozone, VOCs, and meteorological parameters from the low boundary layer of a polluted megacity

XY0176; EGU2007-A-05383; AS3.12-1TH2P-0176

Colomb, A.; Nauret, F.; Gros, V.; Gaimoz, C.; Bonsang, B.; Ricard, V.; Kaluzny, P.

Volatile organic compounds mixing ratios in Santiago del Chile and along the Andes mountains.

XY0177; EGU2007-A-10091; AS3.12-1TH2P-0177

Merten, A.M.; Platt, U.P.; Sheehy, P.S.; Volkamer, R.V.; Molina, L.T.

Long-Path-DOAS measurements of aromatics, polyaromatics and HOx precursors in Mexico City

XY0178; EGU2007-A-07240; AS3.12-1TH2P-0178

d'Argouges, O.; **Sarda-Estève, R.;** Sciare, J.; Cachier, H.; Gaymoz, C.; Gros, V.; Bonsang, B.

Diurnal variations of organic aerosols in a suburban area of Paris (France): First results of the AEROCOV program

XY0179; EGU2007-A-10637; AS3.12-1TH2P-0179

Vega, E.; Ruiz, H.; Castillo, E.; Escalona, S.; Tapia, G.; Cervantes, A.; Sosa, G.; Peña, M.

PM2.5 and PM10 chemical characterization in Tula

XY0180; EGU2007-A-00999; AS3.12-1TH2P-0180

Ruiz, H.; **Vega, E.**

PM2.5 chemical composition in Mexico City during winter 2004

XY0181; EGU2007-A-02450; AS3.12-1TH2P-0181

Castro, T.; Salcido, A.; Saavedra, M.I.; Celada, A.T.; Mamani-Paco, R.; Martinez-Arroyo, M.A.

Impact of pollutants from Mexico City Metropolitan Area on three neighboring boundary sites

XY0182; EGU2007-A-00289; AS3.12-1TH2P-0182

Mamani-Paco, R.; Castro, T.; Herrera, E.; Trujillo, B.; Carabali, G.

Morphology and elemental analysis of fine particles during MILAGRO campaign (case study: T1 site)

XY0183; EGU2007-A-06952; AS3.12-1TH2P-0183

Szidat, S.; Wehrli, M.N.; Ruff, M.; Wacker, L.; Noda, J.; Gustafsson, T.; Pettersson, J.; Prévôt, A.S.H.; Baltensperger, U.
Emission sources of carbonaceous aerosols in Mexico City deduced from radiocarbon analysis

XY0184; EGU2007-A-09357; AS3.12-1TH2P-0184

Querol (1), X.; Minguillón (1), M.C.; Pey (1), J.; Pérez (1), N.; Alastuey (1), A.; Moreno (1), T.; Bernabé (2), R.M.; Blanco (2), S.; Cárdenas (2), B.

Levels and composition of particulate matter in the Mexico City metropolitan area: the MILAGRO campaign

XY0185; EGU2007-A-04645; AS3.12-1TH2P-0185

Russell, P.; J-31 & MILAGRO Collaborators Team

An overview of J-31 aircraft measurements in the Megacity Initiative – Local and Global Research Observations (MILAGRO) experiment

XY0186; EGU2007-A-05984; AS3.12-1TH2P-0186

Gaeggeler, K.; Dommen, J.; Prevot, A.S.H.; Baltensperger, U.; Merten, A.; Platt, U.; Molina, L.T.; Volkamer, R.

Online IC-MS measurements of organic acids in aerosols and gas phase in Mexico City

Biogeosciences

BG5.01/CL48 Calibration and validation of marine and terrestrial proxies: from empiricism towards a mechanistic understanding (co-organized by CL) (co-listed in SSP)

Convener: Bijma, J.

Co-Convener(s): Lotter, A., Benthien, A.

Lecture Room 20 (N)

Chairperson: BIJMA, J

8:30–8:45; EGU2007-A-10164; BG5.01/CL48-1TH1O-001

Ní Fhlaithearta, S.; Ernst, S. R.; Renema, W.; de Lange, G. J.; Reichart, G.-J.

Foraminiferal organic linings: molecular and isotopic composition.

8:45–9:00; EGU2007-A-01875; BG5.01/CL48-1TH1O-002

van der Meer, M.; Baas, M.; Rijpstra, I.; Marino, G.; Rohling, E.; Sinninghe Damsté, J.; Schouten, S.

New proxy for paleosalinity based on the stable hydrogen isotopic composition of C37 alkenones.

9:00–9:15; EGU2007-A-07129; BG5.01/CL48-1TH1O-003

Poulain, C.; Paulet, Y.M.; Benoît, M.; Dehairs, F.; Kepens, E.; Claeys, P.

Salinity effect on strontium and magnesium incorporation in clam, *Ruditapes philippinarum*, shells.

9:15–9:30; EGU2007-A-04311; BG5.01/CL48-1TH1O-004

Regenberg, M.; Steph, S.; Nürnberg, D.; Tiedemann, R.

Calibrating Mg/Ca of multiple planktonic foraminiferal species with $\delta^{18}\text{O}$ -calcification temperatures: Paleothermometry of the upper water column

9:30–9:45; EGU2007-A-03011; BG5.01/CL48-1TH1O-005

Blamart, D.; Rollion-Bard, C.; Cuif, J-P; Meibom, A.; Juillet-Leclerc, A.; Dauphin, Y.

High variability in boron isotopes of deep-sea corals (*Lophelia pertusa*): implications for biomineralization processes and for paleo- pCO_2 reconstruction.

9:45–10:00; EGU2007-A-06517; BG5.01/CL48-1TH1O-006

Kamenik, C.; THE VITA TEAM

Multi-proxy calibration and validation based on natural climate archives: a Swiss case study

10:00 END OF SESSION

BG5.01/CL48 Calibration and validation of marine and terrestrial proxies: from empiricism towards a mechanistic understanding (co-organized by CL) (co-listed in SSP) – Posters

Convener: Bijma, J.

Co-Convener(s): Lotter, A., Benthien, A.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 15:30–17:00

Poster Area Foyer BG

Chairperson: BENTHIEN, A.

BG0001; EGU2007-A-00709; BG5.01/CL48-1TH4P-0001

Kalugin, I.A.; Daryin, A.V.; Karabanov, E.B.; Smolyanina, L.G.; Vologina, E.G.

Abstract

BG0002; EGU2007-A-02188; BG5.01/CL48-1TH4P-0002

Duenas-Bohorquez, A.; Ernst, S.; Ní Fhlaithearta, S.; Bijma, J.; da Rocha, R.; Kuroyanagi, A.; Jorissen, F.J.; Reichart, G.J.

The effect of calcium carbonate saturation state on Mg-incorporation in foraminiferal calcite by controlled growth experiments

BG0003; EGU2007-A-02767; BG5.01/CL48-1TH4P-0003
da Rocha, R. E.; Kuroyanagi, A.; Lenderink, A.; Dueñas-Bohórquez, A.; Reichart, G. J.; Bijma, J.
 Testing the role of vital effects on foraminiferal trace metal incorporation

BG0004; EGU2007-A-07526; BG5.01/CL48-1TH4P-0004
Dissard, D.; Da Rocha, R.; Reichart, G.J.; Bijma, J.
 Development of a mechanistic understanding of trace elements incorporation into biogenic calcite (benthonic foraminifera)

BG0005; EGU2007-A-03306; BG5.01/CL48-1TH4P-0005
Juillet-Leclerc, A.
 The conversion into environmental parameters of multi-proxies derived from coral skeleton

BG0006; EGU2007-A-08051; BG5.01/CL48-1TH4P-0006
REYNAUD, S.; Houlbrèque, F.; Martinez, P.; Billy, I.; Allemand, D.; Ferrier-Pagès, C.
 Effect of feeding and light on the nitrogen isotopic composition of a zooxanthellate coral.

BG0007; EGU2007-A-09343; BG5.01/CL48-1TH4P-0007
Trachsel, M.; Blass, A.; Eggenberger, U.; Kamenik, C.; Grosjean, M.; Sturm, M.
 High resolution climate reconstruction (AD 1580 - 1950) from proglacial Lake Silvaplana based on biogenic silica and x-ray diffraction

BG0008; EGU2007-A-07691; BG5.01/CL48-1TH4P-0008
Giraud, X.
 Modelling the alkenone proxy: application to the NW African upwelling and the Atlantic Ocean

BG5.05 Environmental Micropaleontology: microfossils as proxies of recent and past environmental change (co-listed in CL)

Convener: Jorissen, F.
 Co-Convener(s): Spezzaferri, S.
 Lecture Room 20 (N)
 Chairperson: N.N.

13:30–13:45; EGU2007-A-02310; BG5.05-1TH3O-001
Wollenburg, J.E.; Mackensen, A.
 The ecology and distribution of benthic foraminifera at the hâkon mosby mud volcano

13:45–14:00; EGU2007-A-00420; BG5.05-1TH3O-002
Fontanier, C.; Jorissen, F.J.; Geslin, E.; Zaragosi, S.; Duchemin, G.; Laversin, M.; Gaultier, M.
 Live and dead foraminiferal faunas from Saint-Tropez Canyon (Bay of Fréjus): “In situ” and “culture” observations

14:00–14:15; EGU2007-A-02647; BG5.05-1TH3O-003
Ernst, S.; Duijnste, I.; Fontanier, C.; Jorissen, F.; Van der Zwaan, G.
 Infaunal habitats of bathyal benthic foraminifera in three successive laboratory experiments

14:15–14:30; EGU2007-A-03612; BG5.05-1TH3O-004
Alve, E.; Husum, K.
 Applied environmental micropaleontology and EU's Water Framework Directive

14:30–14:45; EGU2007-A-01408; BG5.05-1TH3O-005
 Hyams, O.; Almogi-Labin, A.; **Benjamini, C.;** Galil, B.S.; Herut, B.
 Opportunistic benthic foraminifera are superior to polychaetes for monitoring anthropogenic eutrophication on the Eastern Mediterranean oligotrophic shallow shelf

14:45–15:00; EGU2007-A-08541; BG5.05-1TH3O-006
McCloskey, B.; Hallock, P.
 Foraminiferal assemblage responses to naturally-induced high arsenic concentrations in a shallow-water hydrothermal system in northeastern Papua New Guinea

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-02871; BG5.05-1TH4O-001
Thibault, N.R.; Gardin, S.
 The calcareous nannoplankton response to climate change during the Maastrichtian

15:45–16:00; EGU2007-A-03065; BG5.05-1TH4O-002
Burgess, C. E.; Pearson, P. N.
 Milankovitch scale cyclicity in the Eocene Southern Ocean – an integrated micropaleontological and geochemical approach

16:00–16:15; EGU2007-A-01762; BG5.05-1TH4O-003
Coxall, H.; Wilson, P.; Pearson, P.; Sexton, P.
 Evolution and environmental significance of digitate planktonic foraminifera

16:15–16:30; EGU2007-A-03684; BG5.05-1TH4O-004
López-Otálvaro, G.-E.; Flores, J.-A.; Sierro, F.-J.; Grimalt, J.-O.
 Variations in paleoproductivity in Core MD03-2616 as were revealed by coccolithophores and long-chain alkenone production

16:30–16:45; EGU2007-A-06690; BG5.05-1TH4O-005
Incarbona, A.; Di Stefano, E.; Pelosi, N.; Sprovieri, R.
 Holocene millennial-scale climatic variability in the Sicily Channel (Mediterranean Sea)

16:45–17:00; EGU2007-A-02902; BG5.05-1TH4O-006
Halloran, P.; Colmenero-Hidalgo, E.; Hall, I.; Rickaby, R.
 Sedimentary evidence for increased phytoplankton calcification over the last two centuries

17:00 END OF SESSION

BG5.05 Environmental Micropaleontology: microfossils as proxies of recent and past environmental change (co-listed in CL) – Posters

Convener: Jorissen, F.
 Co-Convener(s): Spezzaferri, S.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 10:30–12:00
 Poster Area Foyer BG
 Chairperson: N.N.

BG0009; EGU2007-A-01131; BG5.05-1TH2P-0009
Barras, C.; Geslin, E.; Duplessy, J.-C.; Michel, E.; Jorissen, F.
 Ecology and geochemistry of deep-sea benthic foraminifera: a laboratory study

BG0010; EGU2007-A-09765; BG5.05-1TH2P-0010
Luciani, V.
 Test abnormalities in benthic foraminifera and heavy metal pollution at the Goro lagoon (Italy): a multi-year history

BG0011; EGU2007-A-11537; BG5.05-1TH2P-0011
 Pucci, F.; Geslin, E.; Jorissen, F.J.; Morigi, C.; **Negri, A.**
 Ecological responses of benthic foraminifera to hypoxic conditions: results of an experimental study using the CTG method

BG0012; EGU2007-A-07824; BG5.05-1TH2P-0012

Kouwenhoven, T.; Schweizer, M.; Langezaal, S.; van der Zwaan, B.
Considering evolutionary aspects of the proxy value of benthic foraminifera – Progress and limitations

BG0013; EGU2007-A-05329; BG5.05-1TH2P-0013

Amirov, E
Fe/Mn ratio in upper absheron substage succession in the Western flank of the South Caspian depression

BG0014; EGU2007-A-04174; BG5.05-1TH2P-0014

Di Bella, L.; Bergamin, L.; Frezza, V.; Bellotti, P.; Carboni, M.G.
Paleoenvironments in the Roman Claudius Harbour at the Tiber River Mouth (Central Italy). Evidences from benthic foraminifera.

BG0015; EGU2007-A-00831; BG5.05-1TH2P-0015

Nikulina, A.; Polovodova, I.; Schoenfeld, J.; Belozersky, G.; Dullo, W.-C.

The response of living benthic foraminifera to environmental geochemistry in the Kiel Bight, south-western Baltic Sea: preliminary results

BG0016; EGU2007-A-00050; BG5.05-1TH2P-0016

JAYARAJU, N
Recent benthic Foraminiferal species densities and environmental variables OF Pulicat Lake, India

BG0017; EGU2007-A-02496; BG5.05-1TH2P-0017

Mikhalevich, V.
Zoogeography of the bottom Foraminifera of the West-African coast

BG0018; EGU2007-A-00883; BG5.05-1TH2P-0018

Viehberg, F.A.; Pienitz, R.
Limnological and environmental Changes inferred from Microcrustaceans (Anemopoda and Ostracoda) in a shrub-tundra Lake in Arctic Québec, Canada

BG0019; EGU2007-A-00093; BG5.05-1TH2P-0019

Horne, D. J.
A Mutual Temperature Range method for European Quaternary nonmarine Ostracoda

BG0020; EGU2007-A-07340; BG5.05-1TH2P-0020

Pirson, S.; **Court-Picon, M.;** Damblon, F.; Haesaerts, P.; Debenham, N.; Drailly, C.
Belgian cave entrance and rock-shelter sequences as palaeoenvironmental and palaeoclimatic data recorders: the example of the Walou cave multi-proxy study.

BG0021; EGU2007-A-02563; BG5.05-1TH2P-0021

Kuoppamaa, M
Vegetation and land-use history in Nellim, Finnish Lapland, as revealed by near-annual pollen analysis

BG0022; EGU2007-A-01407; BG5.05-1TH2P-0022

Gruber, L.; Lazar, S.; Hyams, O.; Sivan, D.; Herut, B.; **Almogi-Labin, A.**
Amphistegina lobifera, a larger symbiont-bearing foraminiferal migrant from the Red Sea, now dominates rocky coasts of the Israeli Mediterranean

BG0023; EGU2007-A-10795; BG5.05-1TH2P-0023

Ochmański, T.
Microbial mat-related microstructures as proxies of depositional paleoenvironment in open marine clastic settings: case study from Silurian graptolitic shales (SGS), central Poland.

BG0024; EGU2007-A-02957; BG5.05-1TH2P-0024

Vedrine, S.; **Spezzaferri, S.**
Mohlerina basiliensis (benthic foraminifer) and Bacinella-Lithocodium oncoids: palaeoenvironmental and palaeoecological implications (Late Oxfordian, Swiss Jura)

BG0025; EGU2007-A-01879; BG5.05-1TH2P-0025

Dacer, D.; Stankovic, S.; Mesic, M.; Ivanicek, I.
Upper Campanian to Maastrichtian foraminiferal assemblages of the Palmyra Region, Syria

BG0026; EGU2007-A-01522; BG5.05-1TH2P-0026

Margreth, S.; Tamburini, F.; Grobety, B.; Coric, S.; Spezzaferri, S.; Bernasconi, S.
The transition from Marine Isotope Stage 6 to 5 at ODP Hole 1198 (Leg 194-Marion Plateau, Australia): micropaleontology and geochemistry.

BG0027; EGU2007-A-04904; BG5.05-1TH2P-0027

Lopes, C.; Mix, A. C.
Pleistocene mega-floods in the Northeast Pacific

BG0028; EGU2007-A-04970; BG5.05-1TH2P-0028

Bolliet, T.; Kuhnt, W.; Holbourn, A.; Beaufort, L.; Kissel, C.; Laj, C.; Andersen, N.
Investigating the inflow path of the Indonesian troughflow: a palaeontological and geochemical multiproxy reconstruction for the last 140 kyrs.

BG0029; EGU2007-A-05258; BG5.05-1TH2P-0029

Morabito, S.
Late Pleistocene-Holocene paleoclimatic and paleoenvironmental changes in the Ionian Sea (ODP Hole 964B) as revealed by planktonic foraminifera and calcareous nannofossils assemblages

BG0030; EGU2007-A-06722; BG5.05-1TH2P-0030

Baumann, K.-H.; Meggers, H.; Holtvoeth, J.
Variations in upper water-column dynamics in the northern North Atlantic during the last 20,000 years as revealed by coccolithophorid assemblages

BG0031; EGU2007-A-04430; BG5.05-1TH2P-0031

Casieri, S.; Frezza, V.; Landini, B.; Carboni, M.G.
Benthic foraminifera as proxies for a paleoenvironmental reconstruction of the mud-belt in the Holocene core VV00/6 bis (Central Adriatic Sea, Italy).

BG0032; EGU2007-A-08791; BG5.05-1TH2P-0032

Koho, K.A.; de Stigter, H.C.; Kouwenhoven, T.J.; Ruhl, M.; Kuijpers, A.; van der Zwaan, G.J.
The response of canyon-fan benthic foraminifera to changing sedimentary regimes since the Last Glacial Maximum

BG0033; EGU2007-A-06817; BG5.05-1TH2P-0033

Lirer, F.; Sprovieri, M.; Ferraro, L.; Cascella, A.; Pelosi, N.
A high-resolution integrated stratigraphy of the last 9kyr in the eastern Tyrrhenian margin continental shelf marine sediment

BG0034; EGU2007-A-09236; BG5.05-1TH2P-0034

Cléroux, C.; Cortijo, E.; Caillon, N.; Anand, P.; Bassinot, F.; Duplessy, J.-C.; Labeyrie, L.
d18O and trace element calibrations for 3 deep-dwelling planktonic foraminifera species : potential recorders of past thermocline temperature

BG6.03 Ecosystems of the deep sea-floor and their geological drivers (co-listed in SSP, OS & CL)

Convener: Weaver, P.
Lecture Room 19
Chairperson: N.N.

15:30–15:45; EGU2007-A-08928; BG6.03-1TH40-001

Richter, T.O.; de Stigter, H.C.; Boer, W.; Jesus, C.C.; van Weering, T.C.E
Dispersal of natural and anthropogenic lead through submarine canyons at the Portuguese margin

15:45–16:00; EGU2007-A-04607; BG6.03-1TH4O-002
Flexas, M.M.; Zúñiga, D.; Coenjaerts, J.; Company, J.B.;
 Sánchez, J.; Martin, D.; Calafat, A.; Espino, M.; Jordà, G.;
 Sardà, F.
 Circulation, particle fluxes and meiobenthos density in
 Blanes submarine canyon (NW Mediterranean)

16:00–16:15; EGU2007-A-04454; BG6.03-1TH4O-003
Verdicchio, G.; Freiwald, A.; Taviani, M.; Trincardi, F.
 The impact of cascading currents on deep-sea ecosystems in
 the South Adriatic (central Mediterranean)

16:15–16:30; EGU2007-A-02400; BG6.03-1TH4O-004
Gay, A.; Lopez, M.; Berndt, C.; Séranne, M.
 Typology of seafloor fluid seeps in the Lower Congo Basin

16:30–16:45; EGU2007-A-01509; BG6.03-1TH4O-005
Grünke, S.; Røy, H.; Ramette, A.; Boetius, A.
 Diversity of deep-water ecosystems: Investigating mat-
 forming giant sulfide-oxidizing bacteria at cold seeps

16:45–17:00; EGU2007-A-06904; BG6.03-1TH4O-006
 Kiel, S.
 What drives the evolution of methane seeps communities?
 A deep time perspective

17:00 END OF SESSION

BG6.04 Methane fluxes on continental margins: ecosystems, drivers and controls (co-listed in CL)

Convener: Boetius, A.
 Co-Convener(s): Foucher, J., Joye, S.
 Lecture Room 19
 Chairperson: N.N.

8:30–8:45; EGU2007-A-05617; BG6.04-1TH1O-001
Westbrook, G.K.; Haacke, R.R.
 Methane-hydrate BSRs as indicators of the rates of methane
 flux in continental margins.

8:45–9:00; EGU2007-A-04236; BG6.04-1TH1O-002
Heuer, V.; Collett, T.; Pohlman, J.; Holland, M.;
 Schultheiss, P.; Riedel, M.; Hinrichs, K.-U.
 Abundance of gas hydrates in the northern Cascadia Margin
 – Results from pressure core analysis during IODP Expedition 311

9:00–9:15; EGU2007-A-03078; BG6.04-1TH1O-003
Heeschen, K.U.; Haeckel, M.; Hohnberg, H.-J.; Abegg, F.;
 Bohrmann, G.
 Pressure coring at gas hydrate-bearing sites in the eastern
 Black Sea off Georgia

9:15–9:30; EGU2007-A-10571; BG6.04-1TH1O-004
Rehder, G.; Garbe Schöenberg, C.-D.; Linke, P.; Nie-
 mann, H.; Schleicher, T.; Wallmann, K.
 Tectonically induced fluid flow into a nearly anoxic water
 column: Methane cycling at Quepos Slide, Costa Rican
 continental margin

9:30–9:45; EGU2007-A-08870; BG6.04-1TH1O-005
Dando, P.; Clayton, C.; Fannin, N.; Schauer, J.
 Methane release from Pockmarks in the Witch Ground
 Basin, North Sea

9:45–10:00; EGU2007-A-00980; BG6.04-1TH1O-006
Leifer, I.; Clark, J.; Boles, J.; Lueyndyk, B.
 Catastrophic Seepage and Climate Change (solicited)

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-08293; BG6.04-1TH2O-001
Dupré, S.; Woodside, J.; Foucher, J.-P.; Mascle, J.; Buf-
 fet, G.; Klauke, I.; Boetius, A.; Marfia, C.
 MEDIFLUX surveys reveal fluid seepage through the Nile
 Deep Sea Fan seabed offshore Egypt (solicited)

10:45–11:00; EGU2007-A-09680; BG6.04-1TH2O-002
Felden, J.; Lichtschlag, A.; Wenzhöfer, F.; deBeer, D.;
 Foucher, J.P.; Boetius, A.
 In situ and ex situ measurements in methane enriched
 sediments of Amon Mud Volcano (Nile Deep Sea Fan)

11:00–11:15; EGU2007-A-00097; BG6.04-1TH2O-003
Niemann, H.; Lösekann, T.; de Beer, D.; Elvert, M.;
 Nadalig, T.; Knittel, K.; Amman, R.; Sauter, E.; Schlüter, M.;
 Klages, M.; Foucher, J. P., and Boetius, A.
 Microbial consumption of methane and methane emission at
 the Haakon Mosby Mud Volcano, Barents Sea

11:15–11:30; EGU2007-A-07864; BG6.04-1TH2O-004
Feseker, T.; Foucher, J.-P.; Harmegnies, F.; Schlüter, M.
 Long-term observation of sediment temperatures reveals
 high temporal variability of fluid seepage at Håkon Mosby
 mud volcano, Barents sea slope

11:30–11:45; EGU2007-A-06424; BG6.04-1TH2O-005
Sommer, S.; Pfannkuche, O.; Linke, P.; Schneider v.D., J.;
 Reitz, A.; Hensen, C.; Haeckel, M.
 In situ measurement of seabed methane emission from
 Captain Arutyunov mud volcano (Gulf of Cadiz)

11:45–12:00; EGU2007-A-05495; BG6.04-1TH2O-006
Ivanov, M.; Blinova, V.; Kozlova, E.; Pinheiro, L.; van Wer-
 ring, T.; Stadnitskaia, A.
 Natural gas hydrates from mud volcanoes in the Gulf of
 Cadiz

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2007-A-03314; BG6.04-1TH3O-001
Lin, S.; Lim, Y. C.; Yang, T. F.; Chen, Y. G.; Liu, C. S.;
 Wang, Y. S.; Chung, S. H.
 Authigenic carbonate formation and spatial venting phe-
 nomena on the active venting area of the passive continental
 margin offshore Southwestern Taiwan

13:45–14:00; EGU2007-A-06663; BG6.04-1TH3O-002
Aquilina, A.; Knab, N.; Mills, R.; Parkes, R.J.; Jor-
 gensen, B.B.; Boetius, A.; Pancost, R.D.
 Anaerobic oxidation of methane and its impact on metal
 cycling in European continental shelf settings

14:00–14:15; EGU2007-A-09346; BG6.04-1TH3O-003
Lichtschlag, A.; Wegener, G.; Boetius, A.; Schlüter, M.;
 DeBeer, D.
 The impact of methane on biogeochemical processes at the
 Håkon Mosby Mud Volcano

14:15–14:30; EGU2007-A-02179; BG6.04-1TH3O-004
 Wegener, G.; Niemann, H.; Elvert, M.; Boetius, A.
 Which microorganisms benefit from methane oxidation
 in seep sediments? - Tracing carbon pathways by isotope
 labeling experiments.

14:30–14:45; EGU2007-A-05350; BG6.04-1TH3O-005
Stadnitskaia, A.; Omeregíe, E.; Boetius, A.; Sinninghe
 Damsté, J.S.
 A novel association of methanotrophic archaea and bacteria
 in a cold seepage location: significance of aerobic methane
 utilization.

14:45–15:00; EGU2007-A-10501; BG6.04-1TH3O-006
Diem, T.; Wehrli, B.; Schubert, C. J.
 Small-scale methane and nitrous oxide measurements across the Black Sea chemocline (solicited)

15:00 END OF SESSION

BG6.04 Methane fluxes on continental margins: ecosystems, drivers and controls (co-listed in CL) – Posters

Convener: Boetius, A.
 Co-Convener(s): Foucher, J., Joye, S.
 Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 15:30–17:00

Poster Area Foyer BG
 Chairperson: N.N.

BG0035; EGU2007-A-07472; BG6.04-1TH4P-0035
Petsch, S.; Formolo, M.; Martini, A.; Salacup, J.; Nusslein, K.
 Hydrocarbon biodegradation in sedimentary rocks linked to atmospheric methane variations during continental deglaciation

BG0036; EGU2007-A-01044; BG6.04-1TH4P-0036
Shakhova, N.; Semiletov, I.
 The great Arctic Siberian rivers as methane sources: linking marine and terrestrial measurements.

BG0037; EGU2007-A-01071; BG6.04-1TH4P-0037
Shakhova, N.; Semiletov, I.; Salyuk, A.; Kosmach, D.; Bel'cheva, N.
 Methane release on the Arctic East Siberian shelf

BG0038; EGU2007-A-10229; BG6.04-1TH4P-0038
Schubert, C.J.; Loesekann, T.; Knittel, K.; Boetius, A.
 Anaerobic Oxidation of Methane in Sediments of a high Alpine Lake

BG0039; EGU2007-A-03704; BG6.04-1TH4P-0039
LaRowe, D. E.; Dale, A. W.; Regnier, P.
 A comparative study of the bioenergetic potential of intermediate compounds associated with the anaerobic oxidation of methane (AOM)

BG0040; EGU2007-A-01265; BG6.04-1TH4P-0040
 Reinhardt, F.; Mussmann, M.; Küver, J.; Krüger, M.
 Diversity of Functional Genes for Sulphate Reduction at Sites with High Activity of Anaerobic Oxidation of Methane

BG0041; EGU2007-A-07213; BG6.04-1TH4P-0041
Comesaña, A.S.; de Carlos, A.; Sanjuan, A.; Iglesias, J.; Garcia-Gil, S.
 Preliminary results on white mats from San Simon Bay (NW Iberian Peninsula) using DNA techniques

BG0042; EGU2007-A-10109; BG6.04-1TH4P-0042
Garcia-Gil, S.; Iglesias, J.; Martinez, N.; Perez, M.
 First identification of shallow gas in the Rías Altas (NW Iberian Peninsula)

BG0043; EGU2007-A-10159; BG6.04-1TH4P-0043
Garcia-Gil, S.; Muñoz Sobrino, C.; Diez, J.B.; Iglesias, J.
 Might be any shallow gas in the Ria de Vigo related to changes in the coastal environments?

BG0044; EGU2007-A-02049; BG6.04-1TH4P-0044
Iglesias, J.; Garcia-Gil, S.; Ercilla, G.
 Large pockmarks in the Landes Plateau (Bay of Biscay)

BG0045; EGU2007-A-06154; BG6.04-1TH4P-0045
Panieri, G.; Ramette, A.; Grünke, S.; Vigliotti, L.; Ponti, M.; Fonda, G.
 Multiproxy studies of methane seep: A case study from the northern Adriatic Sea (solicited)

BG0046; EGU2007-A-02209; BG6.04-1TH4P-0046
 Wegener, G.; Knittel, K.; Shovitri, M.; Niemann, H.; Hovland, M.; Boetius, A.
 Active methane seepage in the North Sea: Gullfaks and Tommeliten

BG0047; EGU2007-A-10726; BG6.04-1TH4P-0047
leifer, I.; Roberts, D.; Margolis, J.; Luyendyk, B.
 Validation of a methane remote sensing approach with in situ observations of emissions from natural marine hydrocarbon seeps (solicited)

BG0048; EGU2007-A-09432; BG6.04-1TH4P-0048
Lichtschlag, A.; Felden, J.; Wenzhöfer, F.; Grünke, S.; Wegener, G.; Boetius, A.; Foucher, J.P.; deBeer, D.
 Biogeochemical processes associated with microbial mats of the Nile Deep Sea Fan pockmark area

BG0049; EGU2007-A-09826; BG6.04-1TH4P-0049
Wenzhoefer, F.; Felden, J.; Inagaki, F.; Boetius, A.
 Investigation of biogeochemical activities at the deepest known Calyptogena habitat associated with a subduction-type cold seep in the Japan Trench

BG0050; EGU2007-A-11252; BG6.04-1TH4P-0050
Joye, S.B.; Bowles, M.W.; Orcutt, B.N.; Samarkin, V.A.; Brooks, J.M.; Bernard, B.B.; Roberts, H.H.
 Cold seeps from the deep continental slope, Gulf of Mexico and a comparison of microbial activity between shallow and deep water sites (solicited)

BG0051; EGU2007-A-08660; BG6.04-1TH4P-0051
Krieger, K.; Sommer, S.; Drews, M.; Pfannkuche, O.
 Increased standing stocks of metazoan meiofauna in Gulf of Mexico seeps: oil or methane driven?

BG0052; EGU2007-A-06361; BG6.04-1TH4P-0052
Sommer, S.; Gutzmann, E.; Schnell, J.; Pfannkuche, O.
 Sediments hosting gas hydrates - oases for metazoan meiofauna?

BG0053; EGU2007-A-10798; BG6.04-1TH4P-0053
Robin, P.-Y.; Wortmann, U.
 A Gas 'Slug' Model for large 'Worm Tubes' in Sediments above Methane Hydrates

BG0054; EGU2007-A-04415; BG6.04-1TH4P-0054
Boukongo, S.; Singh, S.; Lucazeau, F.
 Estimation of gas hydrate and free gas concentration at the Nankai active margin from full waveform inversion of 3D seismic reflection data

BG0055; EGU2007-A-07517; BG6.04-1TH4P-0055
Perez-Garcia, C.; Feseker, T.; Nouzé, H.; Mienert, J.
 Seismic analysis reveals the three-dimensional geometry of the active caldera of Håkon Mosby mud volcano, Barents Sea slope

BG0056; EGU2007-A-08857; BG6.04-1TH4P-0056
 Nouzé, H.; **Foucher, J.P.**; Pierre, C.; Fabri, M.C.; Olu, K.; Boetius, A.; Charlou, J.L.
 Active gas chimneys on the Storegga slope. New observations from the Vicking expedition.

BG0057; EGU2007-A-08850; BG6.04-1TH4P-0057
Foucher, J.-P.; Nouzé, H.; Normand, A.; Feseker, T.; Deschamps, A.; Simeoni, P.; Berger, L.; Le Drezen, E.; Scalabrin, C.
 High resolution seafloor mapping survey of the Hakon Mosby Mud Volcano, off northern Norway: results from the Vicking expedition (June 2006)

BG0058; EGU2007-A-08690; BG6.04-1TH4P-0058
Charlou, J. L.; Donval, J. P.; Bourry, C.; Chaduteau, C.; Lanteri, N.; Bignon, L.; Foucher, J. P.; Nouze, H.
 Gas bubbles and gas hydrates sampling from Hakon Mosby Mud Volcano – Preliminary results – VICKING cruise (2006).

BG0059; EGU2007-A-03614; BG6.04-1TH4P-0059
Bourry, C.; Charlou, J.L.; Donval, J.P.; Chaduteau, C.; Chazallon, B.; Foucher, J.P.; Nouzé, H.
 Geochemistry of pore waters and natural gas hydrates collected from the Norwegian margin - preliminary results from the Vicking cruise (2006) on Storegga slide and Håkon Mosby Mud Volcano.

BG0060; EGU2007-A-07142; BG6.04-1TH4P-0060
Matveeva, T.; Mazurenko, L.; Kulikova, M.; Beketov, E.; Blinova, V.; Ivanov, M.; Stadnitskaya, A.; van Weering, T.C.E
 Resource potential of gas hydrate-bearing mud volcanoes in the Gulf of Cadiz

BG0061; EGU2007-A-07049; BG6.04-1TH4P-0061
Mazurenko, L.; Blinova, V.; Ivanov, M.; Beketov, E.; Logvina, E.; Stadnitskaya, A.; van Weering, T.C.E
 Gas hydrate formation from low-saline mud volcano fluids in the Gulf of Cadiz

BG0062; EGU2007-A-04800; BG6.04-1TH4P-0062
Blinova, V.; Ivanov, M.; Stadnitskaia, A.; Pinheiro, L
 Activity and origin of hydrocarbon emission from mud volcanoes in the Gulf of Cadiz

BG0063; EGU2007-A-01405; BG6.04-1TH4P-0063
Stadnitskaia, A.; Ivanov, M.K.; van Weering, T.C.E; Sinninghe Damsté, J.S.
 Factors that regulate seepage activity, related microbial anaerobic methanotrophy and carbonate precipitation: the Sorokin Trough (NE Black Sea) vs the Gulf of Cadiz (NE Atlantic).

BG0064; EGU2007-A-06912; BG6.04-1TH4P-0064
Kozlova, E.; Ivanov, M.; Blinova, V
 The replacement of aragonite by authigenic carbonates (in the mud diapiric ridges, the Gulf of Cadiz)

BG0065; EGU2007-A-02376; BG6.04-1TH4P-0065
Teichert, B.M.A.; Delisle, G.; Heuer, V.; Lückge, A.; Schippers, A.; Schlömer, S.; Wiedicke-Hombach, M.
 The Simeulue Seep – observations on a methane seep in the forearc of Sumatra

BG0066; EGU2007-A-10177; BG6.04-1TH4P-0066
Lembke-Jene, L.; Tiedemann, R.; Nuernberg, D.; Obzhirov, A.; Dullo, C.
 Variable Holocene methane emissions from cold seeps in the Okhotsk Sea - links to seismo-tectonic activity?

BG0067; EGU2007-A-08381; BG6.04-1TH4P-0067
Logvina, E.; Mazurenko, L.; van Weering, T.C.E; Ivanov, M.; Stadnitskaia, A.; Blinova, V.
 The formation history of dolomite chimneys based on the $\delta^{18}\text{O}$ and $\delta^{13}\text{C}$ data (the Gulf of Cadiz, NE Atlantic)

BG0068; EGU2007-A-01857; BG6.04-1TH4P-0068
Lietard, C.; Pierre, C.
 Sclerochronology and high resolution isotopic profiles (d^{18}O and d^{13}C) in bivalve shells from methane seeps

BG0069; EGU2007-A-09483; BG6.04-1TH4P-0069
Bouloubassi, I.; Pancost, R.D.; Nabais, E.; Taphanel, M.-H.
 Sedimentary microbial lipids at active methane seeps in the Congo-Angola margin (SE Atlantic)

BG0070; EGU2007-A-06771; BG6.04-1TH4P-0070
Kasten, S.; Pfeifer, K.
 Mineral authigenesis in sediments of pockmark sites of the Northern Congo Fan (solicited)

BG0071; EGU2007-A-02958; BG6.04-1TH4P-0071
Gay, A.; Lopez, M.; Berndt, C.; Séranne, M.; Flemings, P.B.; Behrmann, J.H.; John, C.M.
 Sea level fall and rise controlling cyclic fluid expulsion: comparison between pockmarks in the Congo Basin and mud volcanoes in the Gulf of Mexico. (solicited)

BG0072; EGU2007-A-11715; BG6.04-1TH4P-0072
Perissoratis, C.; Lykousis, V.; Ioakim, Chr.
 The hydrocarbons, usually methane, locked in solid forms within the Gas Hydrates present in the Eastern Mediterranean sea floor: characteristics, formation and impacts

Climate: Past, Present, Future

CL6 Past atmospheric circulation

Convener: Rousseau, D.
 Co-Convener(s): Hatté, C., Kiefer, T.
 Lecture Room 14
 Chairperson: ROUSSEAU, D., HATTE, C., KIEFER, T.

10:30–10:45; EGU2007-A-08532; CL6-1TH2O-001
Lohmann, G.
 Atmospheric bridge on orbital time scales

10:45–11:00; EGU2007-A-07741; CL6-1TH2O-002
Sima, A.; Rousseau, D.D.; Kageyama, M.; Ramstein, G.; Paillard, D.; Balkanski, Y.; Antoine, P.; Hatte, C.; Dulac, F.; Schulz, M.
 Millennial-timescale climate changes in western Europe during the last glaciation: loess records and numerical simulations

11:00–11:15; EGU2007-A-09307; CL6-1TH2O-003
Renssen, H.; Kasse, C.; Vandenberghe, J.; Lorenz, S.J.
 Weichselian Late Pleniglacial surface winds over Northwest and Central Europe: a model-data comparison

11:15–11:30; EGU2007-A-09226; CL6-1TH2O-004
Debret, M.; Petit, J.-R.; Delmonte, B.
 Continuous record of atmospheric changes during the last 3000 years in Vostok, Antarctica

11:30–11:45; EGU2007-A-06790; CL6-1TH2O-005
Rimbu, N.; Lohmann, G.; Grosfeld, K.
 Northern Hemisphere atmospheric blocking in ice core accumulation records from Northern Greenland

11:45 END OF SESSION

CL6 Past atmospheric circulation – Posters

Convener: Rousseau, D.
 Co-Convener(s): Hatté, C., Kiefer, T.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: ROUSSEAU, D., HATTE, C., KIEFER, T.

XY0187; EGU2007-A-02372; CL6-1TH5P-0187
Kerschner, H.; Knoll, Ch.; Dinale, R.
 The glaciers in South Tyrol - 1983, 1997 and the future

XY0188; EGU2007-A-01684; CL6-1TH5P-0188
Pommier, A.
 Analyse of highs and lows tracks in south atlantic from 1950-2000

XY0189; EGU2007-A-01508; CL6-1TH5P-0189
Bakke, J.; Lie, Ø; Dahl, SO; Nesje, A; Bjune, AE
 Strength and spatial patterns of the Holocene wintertime westerlies in the NE Atlantic region

XY0190; EGU2007-A-00769; CL6-1TH5P-0190
Lainé, A.; Kageyama, M; PMIP2 participants, P.
 The North Atlantic storm track during the Last Glacial Maximum for different PMIP2 coupled models: intensity, localization, seasonality.

XY0191; EGU2007-A-02892; CL6-1TH5P-0191
Groll, N.; Widmann, M.; Jones, J.M.
 Orbitally forced changes of large- to regional scale relationships of atmospheric climate variability based on ECHO-G climate simulations

XY0192; EGU2007-A-04761; CL6-1TH5P-0192
 Soto, D.; Barthelemy, L.
 The use of geographical information systems (GIS) in palaeoclimatology : application during the Weichselian Late Glacial in the northern Atlantic region

XY0193; EGU2007-A-03852; CL6-1TH5P-0193
Hatté, C.; Gauthier, C.; Rousseau, D.-D.; Antoine, P.; Fuchs, M.; Markovic, S.
 The Middle Danube Valley: key location in the last glacial atmospheric circulation pattern (solicited)

XY0194; EGU2007-A-04223; CL6-1TH5P-0194
Rousseau, D.D.; Antoine, P.; Kunesch, S.; Hatté, C.; Rossignol, J.; Packman, S.; Lang, A.; Gauthier, C.
 Atmospheric circulation changes evidenced by cyclic dust deposition in the US Great plains (Nebraska, USA).during the last deglaciation (solicited)

XY0195; EGU2007-A-10864; CL6-1TH5P-0195
Machalett, B.; Endlicher, W.; Oches, E. A.; Frechen, M.; Markovic, S. B.; Mavlyanova, N. G.; Hambach, U.; Zöller, L.
 Has loess sedimentation in Middle Asia been controlled by changing atmospheric circulation patterns during the Pleistocene?

XY0196; EGU2007-A-06781; CL6-1TH5P-0196
Russell, A.; McGregor, G. R.; Marshall, G. J.
 An overview of atmospheric circulation reconstructions from Antarctic ice core data (solicited)

XY0197; EGU2007-A-06693; CL6-1TH5P-0197
Prins, M.A.; Vriend, M.
 Glacial and interglacial eolian dust dispersal patterns across the Chinese Loess Plateau inferred from decomposed loess grain-size records

XY0198; EGU2007-A-05682; CL6-1TH5P-0198
Hao, Q.Z.; Guo, Z.T.
 Spatial variations of magnetic susceptibility of Chinese loess for the last 600 ka: implications for monsoon evolution

CL8 Climate and ocean dynamics from high-resolution marine archives (co-listed in OS)

Convener: Felis, T.
 Co-Convener(s): Arz, H.
 Lecture Room 14
 Chairperson: FELIS, T., ARZ, H.

8:30–8:45; EGU2007-A-05253; CL8-1TH1O-001
Sicre, M.-A.; Jacob, J.; Ezat, U.; Rousse, S.; Yiou, P.; Labeyrie, L.; Eiriksson, J.; Knudsen, K.-L.; Jansen, E.; Turon, J.-L.
 Decadal variability of sea surface temperatures off North Iceland over the last 3200 years

8:45–9:00; EGU2007-A-08758; CL8-1TH1O-002
Keigwin, L.; Guilderson, T.
 Ventilation of the deep western North Atlantic during recent millennia (solicited)

9:00–9:15; EGU2007-A-06022; CL8-1TH1O-003
 McGregor, H. V.; Dima, M.; Fischer, H.W.; **Mulitza, S.**; Narayan, N.; Paul, A.
 Rapid 20th century cooling in a northwest African alkenone-SST record

9:15–9:30; EGU2007-A-01487; CL8-1TH1O-004
Abram, N.J.; Gagan, M.K.; Liu, Z.; Hantoro, W.S.; McCulloch, M.T.; Suwargadi, B.W.
 Coral records of the changing seasonal characteristics of the Indian Ocean Dipole during the Holocene (solicited)

9:30–9:45; EGU2007-A-09305; CL8-1TH1O-005
Jilbert, T.; Reichert, G.-J.; Aeschliemann, B.; Günther, D.; de Lange, G.J
 Ultra high resolution elemental profiling of Mediterranean sediments reveals sub-decadal climate cyclicity over the last two millennia

9:45–10:00; EGU2007-A-11560; CL8-1TH1O-006
Hanebuth, T.J.J.; Lantzsich, H.
 Late Holocene climate variability in Western Sahara

10:00 END OF SESSION

CL8 Climate and ocean dynamics from high-resolution marine archives (co-listed in OS) – Posters

Convener: Felis, T.
 Co-Convener(s): Arz, H.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: ARZ, H., FELIS, T.

XY0199; EGU2007-A-09750; CL8-1TH5P-0199
Arz, H.W.; Lamy, F.; Pätzold, J.
 Multi-decadal to centennial climate dynamics in the Holocene recorded in Red Sea sediments

XY0200; EGU2007-A-01530; CL8-1TH5P-0200
Felis, T.; Kuhnert, H.; Herold, M.; Lohmann, G.; Al-Rousan, S.A.; Pätzold, J.
 Sub-seasonal reconstructions of Middle East climate during the Holocene from northern Red Sea corals

XY0201; EGU2007-A-10582; CL8-1TH5P-0201
Herold, M.; Lohmann, G.; Felis, T.; Pätzold, J.
 Seasonality of the global hydrological cycle during interglacial warm periods

XY0202; EGU2007-A-03799; CL8-1TH5P-0202
 Seeberg-Elverfeldt, I.A.; **Pätzold, J.**; Arz, H.W.; Stuut, J.-B.
 Late Holocene climate variability in the northern Red Sea

XY0203; EGU2007-A-03420; CL8-1TH5P-0203
 Chiessi, C. M.; Mulitza, S.; Pätzold, J.; Wefer, G.
 Centennial-scale discharge variability of the La Plata River-Patos Lagoon (South America) during the last deglaciation

XY0204; EGU2007-A-01568; CL8-1TH5P-0204
Bertrand, S.; Huguen, K.; Pantoja, S.; Sepúlveda, J.; Lange, C.
 Late Holocene climate variability of Northern Patagonia reconstructed by a multi-proxy analysis of Chilean fjord sediments (44–47°S)

XY0205; EGU2007-A-06814; CL8-1TH5P-0205

Romero, O.E.

Centennial-to-millennial Variability of Silica Content in the Thermocline of the NE Tropical Atlantic during the Last Glacial Cycle: The Effect on Diatom Production

XY0206; EGU2007-A-04837; CL8-1TH5P-0206

Colmenero-Hidalgo, E.; **Hall, I.R.**; Zahn, R.; Hemming, S.R.

Coupling of North Western European Ice Sheet instabilities and Atlantic Meridional Overturning during MIS 3-2

XY0207; EGU2007-A-09058; CL8-1TH5P-0207

Kotthoff, U.; Pross, J.; Mueller, U. C.; Peyron, O.; Schmiedl, G.; Schulz, H.; Bordon, A.

Palynological land-sea correlation in the Postglacial of the Aegean Sea: A terrestrial view on sapropel formation

XY0208; EGU2007-A-03390; CL8-1TH5P-0208

Mertz-Kraus, R.; Brachert, T.C.; Reuter, M.

Tarbellastraea: a new archive for paleoenvironmental research

XY0209; EGU2007-A-11273; CL8-1TH5P-0209

Risk, M.J.; Lapointe, B.E.; Sherwood, O.

Delta 15N levels in annually-banded skeletons of gorgonians from Florida prove that sewage is taken up by reef organisms

XY0210; EGU2007-A-05954; CL8-1TH5P-0210

Hua, Q.; Hodge, E.; Fink, D.; Woodroffe, C. D.; Smithers, S. G.; McGregor, H. V.; Gagan, M.

Radiocarbon and $\delta 18\text{O}$ in modern corals from the Cocos (Keeling) Islands and implications for ENSO and Indian Ocean Dipole in eastern Indian Ocean

XY0211; EGU2007-A-06617; CL8-1TH5P-0211

Zuraida, R.; Duerkop, A.; Nuernberg, D.; Holbourn, A.; Kuhnt, W.

Timor Sea surface and subsurface temperature variability on centennial timescales during MIS 2-3

XY0212; EGU2007-A-05476; CL8-1TH5P-0212

Duerkop, A.; Zuraida, R.; Holbourn, A.; Kuhnt, W.; Nuernberg, D.; Andersen, N.

Climate variability on centennial timescales in the Timor Sea during Marine Isotope Stages 2 and 3

XY0213; EGU2007-A-09209; CL8-1TH5P-0213

Li, A.C.; Xiao, S.B.; Xu, F.J.

High-resolution record of Holocene Asian climate Change revealed from mud wedge deposit in the East China Sea inner shelf

CL11 Monsoon climates - variability, changes and paleo-perspectives

Convener: Paeth, H.

Co-Convener(s): Reichart, G.

Lecture Room 14

Chairperson: N.N.

15:30–15:45; EGU2007-A-09324; CL11-1TH4O-001

Meynadier, L.; Gourelan, A. T.; **Allegre, C. J.**

Nd isotopic stratigraphy reveals bimodal glacial-interglacial Himalayan erosion regime

15:45–16:00; EGU2007-A-06803; CL11-1TH4O-002

Ziegler, M.; Lourens, L.J.; Reichart, G.-J.

Impact of dissolution and sedimentation rate changes on the phase estimates of the Asian summer monsoon on Milankovitch timescales

16:00–16:15; EGU2007-A-06485; CL11-1TH4O-003

Timm, O.; Timmermann, A.; Abe-Ouchi, A.; Saito, F.

Orbital control of Monsoon circulation in an accelerated transient paleoclimate simulation over the last 130,000 years

16:15–16:30; EGU2007-A-04139; CL11-1TH4O-004

Joly, M.; Voldoire, A.; Royer, J.-F.

West African monsoon teleconnection with ENSO: the response of a coupled AOGCM to various sensitivity experiments

16:30–16:45; EGU2007-A-08701; CL11-1TH4O-005

Kucharski, F.; Bracco, A.; Yoo, J.H.; Molteni, F.

Low-frequency variability of the Indian Monsoon-ENSO relation and the tropical Atlantic: The 'weakening' of the '80s and '90s

16:45–17:00; EGU2007-A-08325; CL11-1TH4O-006

Pohl, B.; Duvel, JP; Camberlin, P

Typology of intraseasonal oscillations based on a Local Mode Analysis

17:00 END OF SESSION

CL11 Monsoon climates - variability, changes and paleo-perspectives – Posters

Convener: Paeth, H.

Co-Convener(s): Reichart, G.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0214; EGU2007-A-05892; CL11-1TH5P-0214

Burke, A.; Stoll, H.; Vance, D.; Arevalos, A.; Shimizu, N.

Glacial/interglacial variations in the range of the Inter-Tropical Convergence Zone and the resulting changes in paleoproductivity in the Bay of Bengal and Andaman Sea

XY0215; EGU2007-A-07079; CL11-1TH5P-0215

Tjallingii

, **R.**; Claussen, M.; Fohlmeister, J.; Jahn, A.; Stuut, J.-B.; Bickert, T.; Röhl, U.

Forcing mechanisms of paleo-hydrological variability in Northwest Africa during the last glacial-interglacial cycle: A comparison of proxy data and model results

XY0216; EGU2007-A-08098; CL11-1TH5P-0216

Marzin, C.; Braconnot, P.

Variations of Indian and African summer monsoons at 6 and 9.5 kyr BP

XY0217; EGU2007-A-05921; CL11-1TH5P-0217

Redwood, D.; Drysdale, R.; Goodwin, I.; McDonald, J.; Hellstrom, J.; Hodge, E.; Jeffery, M

The use of geochemical properties as climate indicators from a Christmas Island (Indian Ocean) stalagmite

XY0218; EGU2007-A-06123; CL11-1TH5P-0218

Bentaleb, I.; Martin, C.

Monsoon seasonality inferred from mammal teeth stable isotope records

XY0219; EGU2007-A-10408; CL11-1TH5P-0219

Fleitmann, D.; Burns, S.J.; Mangini, A.; Mudelsee, M.; Kramers, J.; Matter, A.

Indian monsoon dynamics recorded in stalagmites from Oman and Yemen (Socotra)

XY0220; EGU2007-A-03277; CL11-1TH5P-0220

Knopf, B.; Petoukhov, V.

Implications of the weakening of the Walker circulation for the Indian Monsoon - ENSO relationship

XY0221; EGU2007-A-05491; CL11-1TH5P-0221

Kuhnt, W.; Holbourn, A.; Xu, J.

SE Asian and Australian monsoonal control on Indonesian Throughflow variability

XY0222; EGU2007-A-07813; CL11-1TH5P-0222

Vyazilova, N.

Combined impact of El nino and Indian Ocean Dipole on the Australian summer monsoon

XY0223; EGU2007-A-08240; CL11-1TH5P-0223

Pohl, B; Richard, Y; Fauchereau, N

Influence of the Madden-Julian Oscillation on Southern African summer rainfall

XY0224; EGU2007-A-08380; CL11-1TH5P-0224

Ereno, C.; **Boscolo, R.**

CLIVAR - Variability of the American Monsoon Systems (VAMOS) panel

XY0225; EGU2007-A-08413; CL11-1TH5P-0225

Erenos, C.; **Boscolo, R.**

CLIVAR Asian Monsoon activities

XY0226; EGU2007-A-05140; CL11-1TH5P-0226

Nanjundiah, R S; Vidyunmala, V; Srinivasan, J

Change in Tropical Biennial Oscillation (TBO) in IPCC AR4 scenarios and its linkage to Indian Summer Monsoon

CL17 Observing climate change and variability from space: achievements and challenges

Convener: Kirchengast, G.

Co-Convener(s): Bengtsson, L.

Lecture Room 13 (F1)

Chairperson: KIRCHENGAST, G.

Hydrological cycle, land surface dynamics, and aerosol from space

15:30–15:45; EGU2007-A-06748; CL17-1TH4O-002

Schulz, J.; THE CM-SAF TEAM

The Satellite Application Facility on Climate Monitoring: Continued Development and Operations Phase (solicited)

15:45–16:00; EGU2007-A-09269; CL17-1TH4O-003

Bakan, S.; Andersson, A.; Fennig, K.; Grassl, H.; Klepp, C.; Klocke, D.; Schulz, J.

Climatology of essential water cycle components over global oceans from HOAPS-3

16:00–16:15; EGU2007-A-10092; CL17-1TH4O-004

Martiny, N.; Philippon, N.; Richard, Y.; Camberlin, P.

Observing climate variability from space at regional scales

16:15–16:30; EGU2007-A-07133; CL17-1TH4O-005

Gouveia, C.; Trigo, R.M.; Seixas, J.; Carvalhais, N.

Using AVHRR data to assess the impact of the NAO on Iberian vegetation dynamics and NPP estimates

16:30–16:45; EGU2007-A-01940; CL17-1TH4O-006

Govaerts, Y.M.; Lattanzio, A.

Estimation of Surface Albedo Increase During the Eighties Sahel Drought from Meteosat Observations

16:45–17:00; EGU2007-A-08069; CL17-1TH4O-007

Papadimas, C. D.; Hatzianastassiou, N.; Mihalopoulos, N.; Vardavas, I.

Changes in aerosol optical properties over the Mediterranean basin based on 6-year (2000–2006) MODIS data

17:00 COFFEE BREAK

Chairperson: BAKAN, S.

Clouds and fog from space and climate monitoring by radio occultation

17:30–17:45; EGU2007-A-07350; CL17-1TH5O-002

Stubenrauch, C. J.; GEWEX cloud assessment group

Assessment of global cloud properties (solicited)

17:45–18:00; EGU2007-A-08416; CL17-1TH5O-003

Cermak, J.; Bendix, J.

Setting the basis for a high-resolution European fog/low stratus climatology

18:00–18:15; EGU2007-A-06062; CL17-1TH5O-004

Fong, C.-J.; **Yen, N.;** Chu, V.; Huang, C.-Y.; Chi, S.

Mission results from FORMOSAT-3/COSMIC constellation for global climate monitoring

18:15–18:30; EGU2007-A-06987; CL17-1TH5O-005

Foelsche, U.; Borsche, M.; Pirscher, B.; Steiner, A. K.; Wickert, J.; Kirchengast, G.

Climate monitoring with CHAMP and FORMOSAT-3/COSMIC radio occultation data

18:30–18:45; EGU2007-A-10228; CL17-1TH5O-006

Steiner, A.K.; **Kirchengast, G.;** Borsche, M.; Foelsche, U.

A comparison of lower stratospheric temperatures from the 2001–2006 CHAMP radio occultation and MSU/AMSU climate records

18:45–19:00; EGU2007-A-08535; CL17-1TH5O-007

Pavelyev, A.G.; Liou, Y.A.; Wickert, J.; Pavelyev, A.A.; Igarashi, K.

GPS occultation signals as a radio holographic meter to study climatology of internal waves in the atmosphere on a global scale

19:00 END OF SESSION

CL17 Observing climate change and variability from space: achievements and challenges – Posters

Convener: Kirchengast, G.

Co-Convener(s): Bengtsson, L.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: KIRCHENGAST, G.; SCHULZ, J.

XY0227; EGU2007-A-03939; CL17-1TH3P-0227

Huckle, R.; Olesen, F.

Multi annual cloud analysis from Meteosat data (solicited)

XY0228; EGU2007-A-09024; CL17-1TH3P-0228

Reuter, M.; Thomas, W.

Climate monitoring of cloud properties from MSG: Validation of the CM-SAF fractional cloud coverage product

XY0229; EGU2007-A-02498; CL17-1TH3P-0229

Lattanzio, A.; Govaerts, Y.M.; Theodore, B.

Long term reliable albedo datasets generated with Meteosat data

XY0230; EGU2007-A-07091; CL17-1TH3P-0230

Schulz, J.; Walther, A.; Stengel, M.; Bennartz, R.; Selbach, N.; Lindau, R.

Prerequisites for Humidity Products with Climate Quality from Infrared Geostationary Imaging

XY0231; EGU2007-A-05295; CL17-1TH3P-0231

Schwaerz, M.; Kirchengast, G.; Borsche, M.; Pock, M.

An IASI Processing System for Joint Retrieval of Temperature, Humidity, SST, Ozone, and other Trace Gases and its Coupling to a Climate Monitoring System (solicited)

XY0232; EGU2007-A-10106; CL17-1TH3P-0232

Schweitzer, S.; Kirchengast, G.

ACCURATE: Simultaneous Observation of atmospheric Profiles of Greenhouse Gases, Isotopes, Wind, and thermodynamic Variables from Space (solicited)

XY0233; EGU2007-A-10014; CL17-1TH3P-0233

Abshire, J. B.; Riris, H.; Kawa, S. R.; Sun, X.; Chen, J.; Mao, J.; Stephen, M. A.; Allan, G.; Collatz, G. J.; Jian, P. S. Laser Sounder for Global Measurement of CO₂ Concentrations in the Troposphere from Space (solicited)

XY0234; EGU2007-A-11150; CL17-1TH3P-0234

Mao, J.; Kawa, R.; Abshire, J.; Riris, H.; Sun, X.; Collatz, J.; Burris, J.; Stephen, M.

Sensitivity Studies for a Space-based CO₂ Laser Sounder Development

XY0235; EGU2007-A-06556; CL17-1TH3P-0235

Barbosa, S. M.; Knudsen, P.; Andersen, O.

Low-frequency variability of global sea surface temperature (solicited)

XY0236; EGU2007-A-09967; CL17-1TH3P-0236

Lackner, B. C.; Pirscher, B.; Steiner, A. K.; Kirchengast, G. A Comparison of Principal Component Analysis and Factor Analysis in Atmospheric and Climate Research

XY0237; EGU2007-A-09968; CL17-1TH3P-0237

Pirscher, B.; Foelsche, U.; Lackner, B. C.; Kirchengast, G. Local Time Influence in Radio Occultation Climatologies

XY0238; EGU2007-A-10007; CL17-1TH3P-0238

Borsche, M.; Kirchengast, G.; Steiner, A. K.; Foelsche, U. Estimation of the sampling Error of a CHAMP Radio Occultation Temperature Climatology based on an empirical Approach using ECMWF Analyses

XY0239; EGU2007-A-00845; CL17-1TH3P-0239

Pavelyev, A.; Gubenko, V.; Wickert, J.; Liou, Y.; Pavlev, A.; Schmidt, T.

Atmospheric Internal Waves Characteristics found from CHAMP and FORMOSAT3 Radio Occultation Amplitude and Phase Data

XY0240; EGU2007-A-01034; CL17-1TH3P-0240

Huettich, C.; Herold, M.; Schmullius, C.; Egorov, V.; Bartalev, S.

Indicators of Northern Eurasia's Land Cover change Trends from SPOT-VEGETATION Time Series Analysis 1998-2005

XY0241; EGU2007-A-00953; CL17-1TH3P-0241

Kern, A.; Bartholy, J.; Pongrácz, R.; Barcza, Z.; Fassang, Á.; Gelybó, Gy

Analysis of NOAA Pathfinder NDVI time series for Central Europe

XY0242; EGU2007-A-04594; CL17-1TH3P-0242

Bartholy, J.; Pongracz, R.; Dezso, ZS.

Analysis of the thermal structure of large Central European cities based on MODIS measurements

XY0243; EGU2007-A-02241; CL17-1TH3P-0243

Sharifan, H

Evaluation of Climate Change in Golestan Province by GIS System

8:30–8:45; EGU2007-A-01949; CL18-1TH1O-001

Sutton, R.; Dong, B.; Gregory, J.

Land/sea warming ratio in response to climate change: IPCC AR4 model results and comparison with observations

8:45–9:00; EGU2007-A-02680; CL18-1TH1O-002

Douville, H.

Response of the global water cycle to anthropogenic forcings: what did we learn from the IPCC AR4 simulations ?

9:00–9:15; EGU2007-A-10279; CL18-1TH1O-003

Brandefelt, J.; **Körnrich, H.**

Model intercomparison of stationary waves in future climate projections

9:15–9:30; EGU2007-A-10393; CL18-1TH1O-004

Gastineau, G.; Li, L.;

Le Treut, H. The role of atmospheric dynamics in climate change scenarios

9:30–9:45; EGU2007-A-01294; CL18-1TH1O-005

Williams, K. D.; Tselioudis, G.

Constraining the range of climate sensitivity through the diagnosis of cloud regimes

9:45–10:00; EGU2007-A-04421; CL18-1TH1O-006

von Storch, J-S

Assessing short-term anthropogenic climate changes using an ensemble of climate change experiments performed with ECHAM5/MPIOM AO-GCM

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-03593; CL18-1TH2O-001

Rahmstorf, S.

Are we underestimating future sea level rise?

10:45–11:00; EGU2007-A-05250; CL18-1TH2O-002

Mikolajewicz, U.; Jungclaus, J.; Schurgers, G.; Vizcaino, M. Simulating the effect of ice sheet melting on anthropogenic climate change

11:00–11:15; EGU2007-A-09530; CL18-1TH2O-003

Matthews, H. D.; Caldeira, K.

Stabilizing climate requires zero emissions

11:15–11:30; EGU2007-A-08154; CL18-1TH2O-004

Gillett, N. P.; Willett, K. M.; Jones, P. D.; Thorne, P. W.

Attribution of observed surface humidity changes to anthropogenic influence

11:30–11:45; EGU2007-A-05728; CL18-1TH2O-005

Singer, SF

Test for validation of climate models from observational evidence

11:45–12:00; EGU2007-A-04654; CL18-1TH2O-006

Stendel, M.; Christensen, J.H.; Adalgeirsdottir, G.; Kliem, N.; Drews, M.

Regional climate change around Greenland – from sea-ice to permafrost and ice sheets. Results from a transient climate simulation at 25 km resolution for the period 1950-2100

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2007-A-05833; CL18-1TH3O-001

Arritt, R.; THE NARCCAP TEAM

The North American Regional Climate Change Assessment Program (NARCCAP): Identifying sources of uncertainty in nested regional climate simulations

CL18 Anthropogenic climate changes: forcing, modelling, detection and impact (co-listed in ERE)

Convener: Li, L.

Co-Convener(s): Roeckner, E.

Lecture Room 13 (F1)

Chairperson: N.N.

13:45–14:00; EGU2007-A-01246; CL18-1TH3O-002

Giorgi, F.

A simple equation for regional climate change and associated uncertainty

14:00–14:15; EGU2007-A-08983; CL18-1TH3O-003

Hagemann, S.; Götzel, H.; Jacob, D.; Lorenz, P.; Roeckner, E.

Robustness of the climate change signal over Europe simulated by the MPI-M global and regional climate models

14:15–14:30; EGU2007-A-06396; CL18-1TH3O-004

van Oldenborgh, G.J.; van Ulden, A.P.; Sterl, A.; van den Hurk, B.; Hazeleger, W.; Dijkstra, H.

Why did Europe heat up more than predicted over the last 30 years?

14:30–14:45; EGU2007-A-07128; CL18-1TH3O-005

Seneviratne, S.I.; Lüthi, D.; Litschi, M.; Schär, C.

Land-atmosphere coupling and European climate change

14:45–15:00; EGU2007-A-02574; CL18-1TH3O-006

Paeth, H.; Capo-Chichi, A.; Endlicher, W.

Climate change implications for food security in tropical Africa

15:00 END OF SESSION

CL18 Anthropogenic climate changes: forcing, modelling, detection and impact (co-listed in ERE) – Posters

Convener: Li, L.

Co-Convener(s): Roeckner, E.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0244; EGU2007-A-01910; CL18-1TH5P-0244

Uherek, E.

Raising Public Awareness through Science based Education

XY0245; EGU2007-A-08440; CL18-1TH5P-0245

Cattle, H.; **Boscolo, R.**

CLIVAR/Commission for Climatology ETCCDMI contributions to studies of climate extremes

XY0246; EGU2007-A-05531; CL18-1TH5P-0246

Miltich, L.; Ricciuto, D.; Keller, K.

A probabilistic assessment of historic carbon dioxide emissions due to land use changes

XY0247; EGU2007-A-09660; CL18-1TH5P-0247

Hofmann, M.; Schellnhuber, H. J.

How does oceanic acidification affect the biological carbon pump? A model study

XY0248; EGU2007-A-07814; CL18-1TH5P-0248

Poulter, B.; Heyder, U.; Cramer, W.; Gerten, D.; Lucht, W.

Constraining Amazonian ecosystem and biogeochemical responses to variability from IPCC AR4 climate scenarios

XY0249; EGU2007-A-05654; CL18-1TH5P-0249

Tanaka, K.; Tol, R.; Rokityanskiy, D.; O'Neill, B.; Obersteiner, M.

Evaluating Global Warming Potentials (GWPs) - An Application of ACC2 Inverse Calculation

XY0250; EGU2007-A-07995; CL18-1TH5P-0250

Yamazaki, K.M.; Faull, N.E.; Christensen, C.; Aina, T.; Allen, M.R.

Variability of ocean heat uptake in a grand ensemble transient climate change experiment

XY0251; EGU2007-A-08473; CL18-1TH5P-0251

Hanasaki, N.; Kanae, S.; Oki, T.

A global water resources assessment under climate change: A perspective on sub-annual variation in water resources and water use

XY0252; EGU2007-A-03815; CL18-1TH5P-0252

Raith, S.; Ponater, M.; Sausen, R.; Pechtl, S.

Do contrails force a significant change on the diurnal temperature range?

XY0253; EGU2007-A-11475; CL18-1TH5P-0253

Owen, B.; Lee, D.S.; Lim, L.

Evaluation of climate impacts of aviation technology targets

XY0254; EGU2007-A-00981; CL18-1TH5P-0254

Sotiropoulou, R.E.P.; Meskhidze, N.; Nenes, A.

Sensitivity of aerosol indirect forcing and autoconversion to cloud formation parameterization, meteorological field and emission scenarios: An assessment with the NASA Global Modeling Initiative (GMI)

XY0255; EGU2007-A-02694; CL18-1TH5P-0255

Bender, F.; Ekman, A.; Rodhe, H.

TOA radiative budget in models and measurements and possible implications for climate sensitivity (cancelled)

XY0256; EGU2007-A-05686; CL18-1TH5P-0256

Sterl, A.; Severijns, C.; Hazeleger, W.; **Dijkstra, H. A.**

Ensemble simulations of extreme weather events under nonlinear climate change (ESSENCE)

XY0257; EGU2007-A-04453; CL18-1TH5P-0257

Kopf, S.; Hallegatte, S.; Ha-Duong, M.

Present analogues of Europe's future climates

XY0258; EGU2007-A-05473; CL18-1TH5P-0258

Bhend, J.

Towards the detection of a human influence on observed precipitation changes in Europe

XY0259; EGU2007-A-04378; CL18-1TH5P-0259

Ribes, A.; Planton, S.; Terray, L.; Deque, M.; Moisselin, J.-M.

Detection of a climate change signal in winter precipitation over France

XY0260; EGU2007-A-07039; CL18-1TH5P-0260

Donat, M.; Leckebusch, G. C.; Ulbrich, U.

Changing european circulation types in a greenhouse gas climate and their relation to the occurrence of extreme wind storms - a multi model ensemble approach

XY0261; EGU2007-A-08835; CL18-1TH5P-0261

Matthies, A.; Leckebusch, G.C.; Ulbrich, U.

Future trends of precipitation over Europe based on ECHAM5-OM1 simulations

XY0262; EGU2007-A-10997; CL18-1TH5P-0262

Will, A.; Keuler, K.; Block, A.

Quantified Uncertainties of High-Resolution Regional Climate Simulations over Europe

XY0263; EGU2007-A-09412; CL18-1TH5P-0263

Coppola, E.; Giorgi, F.

Temperature and precipitation changes in Central and Eastern Europe: results from regional and global climate models

XY0264; EGU2007-A-10545; CL18-1TH5P-0264

Halenka, T.

On the Assessment of Climate Change Impacts in Central and Eastern Europe - EC FP6 Project CECILIA

XY0265; EGU2007-A-08091; CL18-1TH5P-0265

Pfeifer, S.; Jacob, D.; Kotova, L.; Lorenz, P.

CLAVIER: Climate change and variability: Impact on Central and Eastern Europe

XY0266; EGU2007-A-10433; CL18-1TH5P-0266

Zoran, M

Remote sensing monitoring of anthropogenic climatic changes effects on forested areas

XY0267; EGU2007-A-05636; CL18-1TH5P-0267

Golubyatnikov, L.L.; Denisenko, E.A.

Climate change impact on the vegetation habitats in Russia

XY0268; EGU2007-A-04599; CL18-1TH5P-0268

Pongracz, R.; Bartholy, J.; Kis, ZS.; Toro, K.; Dunay, GY.; Keller, E.

Evaluation of possible climatological effects on sudden cardiovascular death cases in Budapest

XY0269; EGU2007-A-04602; CL18-1TH5P-0269

Bartholy, J.; Pongracz, R.; Gelybo, GY.; Szintai, B.; Szabó, P.; Torma, CS.; Hunyady, A.; Kardos, P.

Expected regional climate change in the Carpathian Basin using different climate model outputs

XY0270; EGU2007-A-07099; CL18-1TH5P-0270

Li, L.

Modelling regional-scale climate change of the Mediterranean

XY0271; EGU2007-A-02060; CL18-1TH5P-0271

Ventrella, D.

An Italian project on "Evolution of cropping systems as affected by climate change" (CLIMESCO)

XY0272; EGU2007-A-08665; CL18-1TH5P-0272

Arisco, G.; Arnone, G.; Favara, R.; Nigro, F.; Perricone, M.; Pisciotto, A.; Renda, P.

A new desertification map of Sicily

XY0273; EGU2007-A-07159; CL18-1TH5P-0273

Gouveia, C.; Liberato, M.L.R.; Trigo, R.M.

Influence of climate variability on wine and olive oil productions in Portugal

XY0274; EGU2007-A-08297; CL18-1TH5P-0274

Kliem, N.; Stendel, M

Regional climate change of the ocean around Greenland

XY0275; EGU2007-A-08201; CL18-1TH5P-0275

Landerer, F. W.; Jungclaus, J. H.; Marotzke, J.

Regional dynamic and steric sea level changes in an IPCC-A1B scenario simulation

CL34 Aeolian dust as a player and recorder of environmental change (co-listed in GM & SSP, co-sponsored by IAS)

Convener: Stuut, J.

Co-Convener(s): Prins, M.

Lecture Room 14

Chairperson: STUUT, J.B.W.

13:30–14:00; EGU2007-A-06351; CL34-1TH3O-001

Marticorena, B.

Modelling mineral dust sources : present knowledge and limitations (solicited)

14:00–14:15; EGU2007-A-01520; CL34-1TH3O-002

Barkan, J.; Alpert, P.; Kutiel, H.; Kishcha, P.

The synoptics of dust transportation days from Africa toward Italy and central Europe

14:15–14:30; EGU2007-A-10975; CL34-1TH3O-003

Courty, M.-A.; Cortese, G.; Crisci, A.; Crosta, X.; Dewever, P.; Fedoroff, M.; Guichard, F.; Mermoux, M.; Smith, D.; Thieme, M. H.

Impact fingerprints of the 4 kyr BP dust event based on archaeological, soil, lake and marine archives

14:30–14:45; EGU2007-A-02804; CL34-1TH3O-004

Seelos, K.; Sirocko, F.

The development of a continuous dust / loess stack (0-140 ka) for Central Europe by using the particle analysis and detection system RADIUS on ELSA sediment cores (Eifel, Germany)

14:45–15:15; EGU2007-A-07482; CL34-1TH3O-005

Tada, R.; Sun, Y.; Nagashima, K.; Isozaki, Y.; Toyoda, S.; Tani, A.; Hasegawa, H.

Provenance Changes of Eolian Dusts in East Asia on various Time Scales (solicited)

15:15 END OF SESSION

CL34 Aeolian dust as a player and recorder of environmental change (co-listed in GM & SSP, co-sponsored by IAS) – Posters

Convener: Stuut, J.

Co-Convener(s): Prins, M.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: PRINS, M.A. & STUUT, J.B.W.

XY0276; EGU2007-A-10713; CL34-1TH5P-0276

Bouet, C.; Cautenet, G.; Washington, R.; Todd, M. C.; Laurent, B.; Marticorena, B.; Bergametti, G.

How to model aeolian dust emission from hot spots for climate assessments? The example of the Bodélé depression (Chad)

XY0277; EGU2007-A-03908; CL34-1TH5P-0277

Reuter, H.I.

Forecasting wind erosion events in Europe – First results of a reanalysis

XY0278; EGU2007-A-00549; CL34-1TH5P-0278

Sala, M.; Marino, F.; Dapiaggi, M.; Delmonte, B.; Maggi, V.; Artioli, G.

Mineralogical investigations coupling XRPD, HR-TEM and PIXE analytical method: preliminary results on standard minerals and Aeolian dust trapped in Antarctic ice

XY0279; EGU2007-A-03850; CL34-1TH5P-0279

Marcelli, A.; Maggi, V.; Cibin, G.; **Sala, M.;** Marino, F.; Delmonte, B.

Iron oxidation state of aeolian mineral dust trapped in firm cores: XRF and XANES results

XY0280; EGU2007-A-05024; CL34-1TH5P-0280

Necula, C.; Panaiotu, C.

Dating climatic oscillations recorded by Romanian loess: a magnetic approach

XY0281; EGU2007-A-07832; CL34-1TH5P-0281

Milojkovic, N.; Lukic, T.; **Machalett, B.;** Markovic, S.B.

Highly resolved rubification indices recorded at the Stari Slankamen loess site (Vojvodina, Serbia)

XY0282; EGU2007-A-10131; CL34-1TH5P-0282

Donner, R.; von Suchodoletz, H.; Oberhänsli, H.; Zöller, L. Unravelling the Temporal Variability of Aeolian Dust Supply by Statistical Decomposition and Modelling of Grain-Size Distributions from Sediment Layers on the Eastern Canary Islands

XY0283; EGU2007-A-01341; CL34-1TH5P-0283

Granberg, I.G.; Andronova, A.V.; Artamonova, M.S.; Grechko, E.I.; Efimenko, N.V.; Iordansky, M.A.; Kazansky, A.B.; Kramar, V.F.; Maksimenkov, L.O.; Pogarsky, F.A. The estimation of the vertical flux of fine-dispersed arid aerosol in the absence of dust storms.

XY0284; EGU2007-A-08772; CL34-1TH5P-0284

Szatmari, J.

Wind erosion and dust dynamics on the southern part of the Great Hungarian Plain

XY0285; EGU2007-A-10203; CL34-1TH5P-0285

Stuut, J.B.W.; Lavik, G.; Schefuss, E.; Zabel, M.

Seasonal variability of present-day aeolian dust collected off NW Africa inferred from a multiproxy study combining grain size, chemistry, mineralogy, n-alkanes, C and N isotopes and satellite observations

XY0286; EGU2007-A-10264; CL34-1TH5P-0286

De Deckker, P.; Abed, R.; De Beer, D.; Hinrichs, K.U.; Schefuss, E.; **Stuut, J.B.W.;** Tapper, N.

Preliminary findings on the geochemical and microbiological fingerprinting of Australian aeolian dust Implications for (past) climates, the environment, health and the oceans

XY0287; EGU2007-A-03802; CL34-1TH5P-0287

v. Suchodoletz, H.; Zöller, L.; Faust, D.; Oberhänsli, H.; Fuchs, M.; Hambach, U.

Saharan dust deposits from Lanzarote (Canary Islands) – a continuous paleoprecipitation archive off NW Africa

XY0288; EGU2007-A-01170; CL34-1TH5P-0288

Machalett, B.; Oches, E. A.; Frechen, M.; Zöller, L.

Dynamics of past aeolian dust deposition in Central Asia: a case study from the loess deposits of southeast Kazakhstan

XY0289; EGU2007-A-03107; CL34-1TH5P-0289

Blanchet, C.; Thouveny, N.; Vidal, L.

Magnetic Mineral Inputs in Sediments Off Baja California. Inference on Climate Variability of the Last Glacial-Interglacial Cycle

XY0290; EGU2007-A-07478; CL34-1TH5P-0290

Prins, M.A.; The Mangshan Team

Late Quaternary history of dust supply from the Huang He (Yellow River) floodplain as recorded in a loess-paleosol sequence from the Mangshan Plateau (China)

XY0291; EGU2007-A-08127; CL34-1TH5P-0291

Nagashima, K.; Tada, R.; Tani, A.; Sun, Y.; Isozaki, Y.; Toyoda, S.

Evidence of millennial-scale oscillations of westerly jet axis and East Asian winter monsoon intensity during the last 80 kyr from the Japan Sea sediment

XY0292; EGU2007-A-10586; CL34-1TH5P-0292

Hambach, U.; v. Suchodoletz, H.; Zöller, L.

Climatic Cyclicity revealed by Rock Magnetism: an Example from Saharan Dust trapped on Lanzarote (Canary Islands)

XY0293; EGU2007-A-10836; CL34-1TH5P-0293

Itambi, C A; von Dobeneck, T; Mulitza, S; Razik, S

A rock magnetic, color and element based determination of the eolian and fluvial sediment input variation along the Senegalese continental margin during the Late Quaternary

XY0294; EGU2007-A-09316; CL34-1TH5P-0294

Tysmans, D.; Claeyes, P.; Finsy, R.; Van Molle, M.

Short climatic oscillations recorded in a homogeneous Upper Pleistocene loess sequence.

XY0295; EGU2007-A-07905; CL34-1TH5P-0295

Isozaki, Y.; Tada, R.; Sun, Y.; Nagashima, K.; Toyoda, S.; Tani, A.; Hasegawa, H.

Asian dust provenance changes during the last 2.6 Mys at Lingtai section, the Chinese Loess Plateau and this implication to East Asian monsoon evolution

Cryospheric Sciences

CR120 Observations of glaciers and ice sheets from space (co-listed in G & CL)

Convener: Velicogna, I.

Co-Convener(s): Bamber, J.

Lecture Room 4 (H)

Chairperson: N.N.

10:30–10:45; EGU2007-A-05394; CR120-1TH2O-001

Paul, F.; Haeberli, W.

Spatial variability of glacier elevation changes in the Alps obtained from the SRTM DEM

10:45–11:00; EGU2007-A-02073; CR120-1TH2O-002

LEGRESY, B.; REMY, F.; BLAREL, F.; TESTUT, L.

Satellite radar altimetry survey of Ice Sheets surface height (solicited)

11:00–11:15; EGU2007-A-05781; CR120-1TH2O-003

Fricker, H. A.; Scambos, T.; Bindshadler, R.; Padman, L.

A widespread sub-glacial water system beneath Whillans and Mercer ice streams mapped using ICESat and image differencing (solicited)

11:15–11:30; EGU2007-A-01866; CR120-1TH2O-004

Shepherd, A.; Wingham, D.; Fowler, A

Subglacial flood leaves Antarctica

11:30–11:45; EGU2007-A-08364; CR120-1TH2O-005

Luthcke, S.B.; Zwally, H.J.; Rowlands, D.D.; Abdalati, W.;

Lemoine, F.G.; Ray, R.D.; McCarthy, J.J.; Chinn, D.

Seasonal and inter-annual mass flux of coastal and interior ice sheet drainage systems from GRACE lumped harmonic mascon solutions

11:45–12:00; EGU2007-A-07990; CR120-1TH2O-006

Velicogna, I.; Wahr, J

Time variable gravity From GRACE provides new and independent measurements of long term and seasonal mass variations of the ice sheets

12:00–12:15; EGU2007-A-05940; CR120-1TH2O-007

Schutz, B.; Urban, T.; Gunter, B.; Harpold, R.; Webb, C.; Chambers, D.; Bonin, J.; Catania, G

Comparison of coincident ICESat and GRACE data over Greenland and Antarctica

12:15–12:30; EGU2007-A-06356; CR120-1TH2O-008

van Dam, T.; Larson, K.; Francis, O.; Kahn, A.; Wahr, J.

GPS, GRACE, and Absolute Gravity in Greenland

12:30 END OF SESSION

CR120 Observations of glaciers and ice sheets from space (co-listed in G & CL) – Posters

Convener: Velicogna, I.

Co-Convener(s): Bamber, J.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 17:30–19:00

Poster Area Hall A

Chairperson: N.N.

A0001; EGU2007-A-01444; CR120-1TH5P-0001

Jezek, K.; **Farness, K.;** Drinkwater, M.

Global inter-agency IPY polar snapshot year (GIIPSY): goals and accomplishments

A0002; EGU2007-A-04563; CR120-1TH5P-0002

Khalsa, S.J.; Armstrong, R.; Dyurgerov, M.; Helm, C.; Raup, B.

GLIMS: Progress in Mapping the World's Glaciers

A0003; EGU2007-A-10032; CR120-1TH5P-0003
BOMBRUN, L.; Gay, M.; Landes, T.; Grussenmeyer, P.; Nicolas, J.M.; Trouve, E.; Vasile, G.
 Three-dimensional surface velocities of Argentiere and Mer de Glace glaciers, France, derived from radar interferometry : Analysis and comparison with in-situ measurements.

A0004; EGU2007-A-07239; CR120-1TH5P-0004
Baessler, M.; Dietrich, R.; Rosenau, R.
 Intercomparison of ice surface velocity determination using SAR-Interferometry and Feature Tracking

A0005; EGU2007-A-01284; CR120-1TH5P-0005
Wesche, C.; Eisen, O.; Helm, V.; Riedel, S.; Rülke, A.; Steinhage, D.

Surface topography in the center of Dronning Maud Land, Antarctica, derived from airborne radar altimetry and ground based kinematic GPS measurements

A0006; EGU2007-A-00468; CR120-1TH5P-0006
Palmer, S.; Shepherd, A.
 Mass balance of the ice cap of King George Island, Antarctica

A0007; EGU2007-A-02708; CR120-1TH5P-0007
Bingham, R.G.; Corr, H.F.J.; Hindmarsh, R.C.A.; Ferraccioli, F.; Joughin, I.

New aerogeophysical surveys of ice stream flowlines, ice divides, and the grounding line over the Evans, Carlson, and Rutford systems, West Antarctica

A0008; EGU2007-A-02838; CR120-1TH5P-0008
Van den Broeke, M. R.; Van de Berg, W. J.; Van Meijgaard, E.
 Firn depth correction along the grounding line of the Antarctic ice sheet

A0009; EGU2007-A-02851; CR120-1TH5P-0009
 Helsen, M. M.; Van den Broeke, M. R.; Van de Wal, R.S.W.; Van de Berg, W. J.; Van Meijgaard, E.
 Effect of firn depth and density variations on ice sheet elevation changes in Antarctica

A0010; EGU2007-A-09065; CR120-1TH5P-0010
Wallis, D.; Wingham, D. J.
 Elevation trends in the Amundsen Coast region using altimetry from Envisat RA-2

A0011; EGU2007-A-03500; CR120-1TH5P-0011
Biscaro, D.; Frezzotti, M.; Alberti, M.; Tabacco, E.I.
 Icesat altimetry and radar-derived ice thickness in the Scott Coast (northern Victoria Land, Antarctica): evidences for ice tongues/shelves density variations

A0012; EGU2007-A-10003; CR120-1TH5P-0012
Arthern, R.; Hindmarsh, R.; Shepherd, A.; Wingham, D.; Rignot, E.
 Application of ice-sheet data assimilation methods to Pine Island and Thwaites glaciers.

A0013; EGU2007-A-10984; CR120-1TH5P-0013
Young, N.W.
 Icebergs in the Southern Ocean – towards an IPY census

A0014; EGU2007-A-05409; CR120-1TH5P-0014
Lampkin, J.; Steffen, K.
 Estimation of surface melt intensity using MODIS optical and thermal measurements over Western Greenland

A0015; EGU2007-A-10418; CR120-1TH5P-0015
Tedesco, M.
 Assessment of space-borne passive microwave detected melting events and visible albedo changes over the Greenland Ice Sheet

A0016; EGU2007-A-10940; CR120-1TH5P-0016
 McMillan, M; **Nienow, P.;** Shepherd, A; Benham, T
 Satellite investigations of the seasonal evolution of supraglacial lakes at the margins of the Greenland Ice Sheet

CR140 Ice sheet - climate interactions (co-listed in CL)

Convener: Huybrechts, P.
 Co-Convener(s): Fichet, T.
 Lecture Room 4 (H)
 Chairperson: HUYBRECHTS, P.

8:30–8:45; EGU2007-A-09083; CR140-1TH10-001
DeConto, R.; Pollard, D.
 Rethinking Cenozoic glacial history: a model-data perspective (solicited)

8:45–9:00; EGU2007-A-01728; CR140-1TH10-002
Bintanja, R.; Van de Wal, R.
 A 3-million-year reconstruction of climate, ice volume and sea level; identifying mechanisms behind the inception of Northern-Hemisphere glaciation and the mid-Pleistocene transition

9:00–9:15; EGU2007-A-08817; CR140-1TH10-003
Lunt, D.J.; Valdes, P.J.
 The closure of the Panama Seaway and the onset of Northern Hemisphere Glaciation: Cause or Coincidence?

9:15–9:30; EGU2007-A-09077; CR140-1TH10-004
Renssen, H.; Wiersma, A.P.; Goosse, H.; Fichet, T.
 The impact of catastrophic meltwater drainage on the early Holocene climate: model simulations of the 8.2 kyr BP event (solicited)

9:30–9:45; EGU2007-A-02554; CR140-1TH10-005
Fichet, T.; Driesschaert, E.; Goosse, H.; Huybrechts, P.; Janssens, I.; Mouchet, A.; Munhoven, G.; Brovkin, V.; Weber, S.L.
 Modeling the influence of the Greenland ice sheet melting on the Atlantic meridional overturning circulation during the next millennia

9:45–10:00; EGU2007-A-05553; CR140-1TH10-006
Gregory, J. M.; Huybrechts, Ph.; Alley, R. B.
 Ice-sheet contributions to future sea-level change (solicited)

10:00 END OF SESSION

CR140 Ice sheet - climate interactions (co-listed in CL) – Posters

Convener: Huybrechts, P.
 Co-Convener(s): Fichet, T.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
 Poster Area Hall A
 Chairperson: FICHEFET, T.

A0017; EGU2007-A-03897; CR140-1TH5P-0017
Cristini, L.; Grosfeld, K.; Lohmann, G.; Huybrechts, P.
 The evolution of the Antarctic Ice Sheet under different climate boundary conditions

A0018; EGU2007-A-07882; CR140-1TH5P-0018
Browne, O.J.H.; Rutt, I.C.; Gregory, J.M.; Hosoe, T.; Payne, A.J.
 The use of a coupled AOGCM – ice-sheet model to explore large-scale climate – ice-sheet feedbacks.

A0019; EGU2007-A-09397; CR140-1TH5P-0019
Peyaud, V.; Ritz, C.; Krinner, G.
 Modelling the Early Weichselian Eurasian Ice Sheets between 100 kyr BP and 80 kyr BP : role of ice shelves and influence of ice-dammed lakes

A0020; EGU2007-A-08576; CR140-1TH5P-0020
Grosfeld, K.; Lohmann, G.; Butzin, M.; Huybrechts, P.; Zweck, C.
 Glacial ocean circulation in response to spatio-temporal freshwater discharges derived from an ice sheet model

A0021; EGU2007-A-02910; CR140-1TH5P-0021
Calov, R.; Greve, R.; Huybrechts, P.; Bueler, E.; Pollard, D.; Pattyn, F.; Tarasov, L.
 First Results of the ISMIP-HEINO Model Intercomparison Project

A0022; EGU2007-A-01345; CR140-1TH5P-0022
Steen-Larsen, H. C.; Dahl-Jensen, D.
 The effects of climatic forcing on the binge-purge oscillation of the Laurentide Ice Sheet: a conceptual modelling study

A0023; EGU2007-A-06835; CR140-1TH5P-0023
Wake, L. M.; Huybrechts, P.; Janssens, I.; Hanna, E.; Box, J.
 Surface mass balance history of the Greenland Ice Sheet (1868-2005)

A0024; EGU2007-A-03962; CR140-1TH5P-0024
Woodward, J.; King, E. C.; Gray, L.
 Radar surveys of the Rutford Ice Stream onset zone, West Antarctica: Indications of flow stability and intermittent storminess.

A0025; EGU2007-A-03365; CR140-1TH5P-0025
Wang, C.; Beckmann, Aike
 Local and remote impact of Antarctic ice shelf melting

CR150 Modelling ice sheets and glaciers – Posters

Convener: Hindmarsh, R.
 Co-Convener(s): Pattyn, F.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 15:30–17:00
 Poster Area Hall A
 Chairperson: N.N.

A0026; EGU2007-A-01351; CR150-1TH4P-0026
Pattyn, F.; ISMIP-HOM participants
 ISMIP-HOM: Results of the Higher-Order Ice Sheet Model Intercomparison exercise

A0027; EGU2007-A-01253; CR150-1TH4P-0027
Gagliardini, O.; Zwinger, T.
 The ISMIP-HOM benchmark experiments performed using the finite-element code Elmer

A0028; EGU2007-A-04644; CR150-1TH4P-0028
Schoof, C.; Hindmarsh, R.; Pattyn, F.
 Benchmarks and intercomparison program for marine ice sheet models

A0029; EGU2007-A-11309; CR150-1TH4P-0029
Schoof, C.S.
 A numerical higher order glacier flow model with Coulomb friction

A0030; EGU2007-A-03660; CR150-1TH4P-0030
Hindmarsh, R.C.A.
 A comparison of vertically integrated and three-dimensional longitudinal stress schemes

A0031; EGU2007-A-02611; CR150-1TH4P-0031
Soucek, O.; Martinec, Z.
 Iterative algorithm for improvement of the Shallow Ice Approximation solution of a 3-D ice flow

A0032; EGU2007-A-06093; CR150-1TH4P-0032
Vieli, A.; Nick, F.
 The role of longitudinal stresses on the dynamics of tidewater outlet glaciers

A0033; EGU2007-A-09296; CR150-1TH4P-0033
Lange, M. A.; Klauke, S.; Oelke, C.; Kleiner, T.; Baessler, M.; Dietrich, R.
 Mass balance studies employing numerical ice sheet modelling and satellite remote sensing data

A0034; EGU2007-A-08774; CR150-1TH4P-0034
Woodard, R.; Freeman, M.; Johnson, J.
 Effects of forcing on response dynamics in Antarctic ice sheet models

A0035; EGU2007-A-00834; CR150-1TH4P-0035
De Smedt, B.; de Groen, P.; Pattyn, F.
 A robust 2D higher-order ice-flow model for inverse applications

A0036; EGU2007-A-00846; CR150-1TH4P-0036
De Smedt, B.; Pattyn, F.; de Groen, P.; Nolan, M.
 Inverse modelling of basal velocity using a 2D higher-order ice-flow model

A0037; EGU2007-A-08629; CR150-1TH4P-0037
Kleiner, T.; Oelke, C.; Lange, M. A.
 A higher-order thermo-mechanical ice-flow model applied to grounding-line simulations

A0038; EGU2007-A-04726; CR150-1TH4P-0038
Khazendar, A.; Larour, E.; Rignot, E.
 Inferring the spatial ice rigidity distribution of Larsen B before its disintegration from an inverse control method and investigating the role of fracture

A0039; EGU2007-A-05218; CR150-1TH4P-0039
Parrenin, F.; Hindmarsh, R.
 The effect of a non-uniform velocity field upon isochrone geometry in a steady ice sheet

A0040; EGU2007-A-02756; CR150-1TH4P-0040
Leysinger Vieli, G.J.M.; Hindmarsh, R.C.A.; Siegert, M.J.
 Three-dimensional flow influences on radar layer stratigraphy

A0041; EGU2007-A-01249; CR150-1TH4P-0041
Schäfer, M.; Gagliardini, O.; Le Meur, E.; Pattyn, F.; Ritz, C.
 Mountain glacier flow modelling : a comparison of different models from the Shallow Ice Approximation to the Full-Stokes solution

A0042; EGU2007-A-01250; CR150-1TH4P-0042
Schäfer, M.; David, E.; Cadier, E.
 Topographic measurements and glacier flow modelling of a tropical, volcano glacier : Cotopaxi, Ecuador

A0043; EGU2007-A-04777; CR150-1TH4P-0043
Aschwanden, A.; Blatter, H.
 Modeling polythermal glaciers: regularization with a brine pocket scheme

A0044; EGU2007-A-09892; CR150-1TH4P-0044
Ritz, C.; Mazauric, C.; Peyaud, V.; Debreu, L.
 A mesh refinement approach, AGRIF, to take into account small scale processes in the GRISLI large scale ice sheet model.

A0045; EGU2007-A-09650; CR150-1TH4P-0045
Hubbard, A.; Bradwell, T.; Golledge, N.; Stoker, M.; Everest, J.; Mathers, H.; Merritt, J.; Cooper, R.; Sugden, D.; Hall, A.
 The sensitivity and response of the last British and Irish Ice Sheets

A0046; EGU2007-A-09542; CR150-1TH4P-0046

Kononov, Yu; Nagornov, O

Ice flow velocity fields in the Gregoriev ice cap (Tien-Shan, Central Asia): Comparison the results of the 3D ice flow and the 2D ice stream modeling

A0047; EGU2007-A-04084; CR150-1TH4P-0047

van den Berg, J.; van de Wal, R.S.W; Milne, G.; Oerlemans, J.

The effect of glacial isostatic adjustment on ice sheet evolution in Eurasia; a comparison of a self gravitating viscoelastic earth model and a flexural model

A0048; EGU2007-A-02503; CR150-1TH4P-0048

Lüthi, M.P.

A Full Ice Stream Model for Jakobshavn Isbræ

A0049; EGU2007-A-04222; CR150-1TH4P-0049

Adalgeirsdottir, G.; Fox Maule, C.

The response of Greenland ice sheet model to a new geothermal heat flux estimate

A0050; EGU2007-A-07538; CR150-1TH4P-0050

Winstrup, M.; Hvidberg, C. S.; Dahl-Jensen, D.

Flow Pattern in the North East Greenland Ice Stream

A0051; EGU2007-A-07701; CR150-1TH4P-0051

Solgaard, A.M.; Hvidberg, C.S.; Clausen, H.B.; Reeh, N.

An Ice Flow Model of Hans Tausen Ice Cap, North Greenland

A0052; EGU2007-A-08333; CR150-1TH4P-0052

Hebel, F.; Purves, R.S.

Estimating the Impacts of DEM Uncertainty on Ice Sheet Model Results

A0053; EGU2007-A-02818; CR150-1TH4P-0053

Benn, D.; Nick, F; Hulton, N

The representation of calving in ice sheet models

A0054; EGU2007-A-00767; CR150-1TH4P-0054

Karatay, M.; Zatsepin, S.; Hulton, N.

Modelling the Evolution of Subglacial Hydraulic Pressures of Ice Sheets

A0055; EGU2007-A-03023; CR150-1TH4P-0055

Gudmundsson, S.; björnsson, H.; Pálsson, F.; Berthier, E.

Rapid evolution of a proglacial coastal lake in Iceland, studied with long term ground observations, remote sensing data and iceflow modeling

CR160 Subglacial environments – properties and processes influencing ice dynamics

Convener: Fischer, U.

Co-Convener(s): Vogel, S., Hubbard, B.

Lecture Room 29

Chairperson: VOGEL, S.

13:30–13:45; EGU2007-A-10661; CR160-1TH3O-001

Peters, L.; Anandakrishnan, S; Alley, R; Smith, A

Basal meltwater in the onset region of Bindschadler Ice Stream, West Antarctica

13:45–14:00; EGU2007-A-01324; CR160-1TH3O-002

Pattyn, F.; Siegert, M.J.

Mechanisms for subglacial lake drainage and outbursts

14:00–14:15; EGU2007-A-08077; CR160-1TH3O-003

Kjær, K.H.

Sediment re-distribution beneath surging ice and its impact on landform architecture

14:15–14:30; EGU2007-A-04515; CR160-1TH3O-004

Fowler, A.C.; Hewitt, I.J.

Seasonal waves on glaciers

14:30–14:45; EGU2007-A-10905; CR160-1TH3O-005

Nienow, P.; Hubbard, A; Bingham, R; Sharp, M

Investigating seasonal variations in the distribution of basal sliding under a High Arctic polythermal glacier

14:45–15:00; EGU2007-A-03946; CR160-1TH3O-006

Cianfarra, P.; Forieri, A.; Salvini, F.; Tabacco, I.E.

Geological setting of the Concordia Trench-Lake system

15:00 END OF SESSION

CR160 Subglacial environments – properties and processes influencing ice dynamics – Posters

Convener: Fischer, U.

Co-Convener(s): Vogel, S., Hubbard, B.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 15:30–17:00

Poster Area Hall A

Chairperson: VOGEL, S.

A0056; EGU2007-A-02460; CR160-1TH4P-0056

Horgan, H. J.; Anandakrishnan, S.; Alley, R.B.; Peters, L.E.

Beneath the ice streams of the West Antarctic Ice Sheet - seismic imaging of a sediment conveyor

A0057; EGU2007-A-02456; CR160-1TH4P-0057

Pettersson, R.; **Jacobel, R.W.;** MacGregor, J.A.

Radar velocity, attenuation and bed reflectivity from constant midpoint profiles on Kamb Ice Stream, West Antarctica

A0058; EGU2007-A-03714; CR160-1TH4P-0058

Rippin, D.; Vaughan, D; Corr, H

The Role of Basal Roughness on the Flow Dynamics of Pine Island Glacier

A0059; EGU2007-A-04458; CR160-1TH4P-0059

Forieri, A.; Murray, T.; Smith, A.M.; Corr, H.

Radio Echo Sounding of Bed Reflection Power on Rutford Ice Stream

A0060; EGU2007-A-03698; CR160-1TH4P-0060

Thoma, T.; Grosfeld, G; Mayer, M; Studinger, S

Subglacial Lake Vostok, Antarctica: A model study based on new geophysical data

A0061; EGU2007-A-04125; CR160-1TH4P-0061

BUONCRISTIANI, JF.; GALLAIRE, R.

Meltwater suspended sediment concentration: comparison between alpine glaciers and tropical glaciers.

A0062; EGU2007-A-07959; CR160-1TH4P-0062

Werder, M.; Loye, A.; Funk, M.

Dye tracer experiments during a jökulhlaup

A0063; EGU2007-A-10913; CR160-1TH4P-0063

Vogel, S.W.; Powell, R.P.; Griffith, I.

An ice borehole ROV - a new tool for subglacial research

A0064; EGU2007-A-00803; CR160-1TH4P-0064

Samyn, D.; **Remy, J.-P.;** Duval, P.; Montagnat, M.; Tison, J.-L.

Compression experiments on marine ice from Nansen Ice Shelf, Antarctica: implications for ice-shelf/continental interactions

A0065; EGU2007-A-02716; CR160-1TH4P-0065

Samyn, D.; Remy, J.-P.; Svensson, A.; Tison, J.-L.

Crystallography of marine ice from Nansen Ice Shelf, Antarctica: on the development of compressional folding

A0066; EGU2007-A-09977; CR160-1TH4P-0066

Denis, M.; Guiraud, M.; Buoncristiani, J.F.

Onset of an Ordovician ice stream in the Djado Basin.

Energy, Resources and the Environment

ERE3 Renewable resources in general – Posters

Convener: Bruckner, T.

Co-Convener(s): Held, H.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: BRUCKNER, T.

XY0296; EGU2007-A-06388; ERE3-1TH2P-0296

Wahl, N.A.; Kofoed, J.P.

Methods for Utilizing Renewable Energy Resources - Sea and Land Based Energy Converters (solicited)

XY0297; EGU2007-A-11678; ERE3-1TH2P-0297

Varga, A.; Mohácsi, Á.; Szakáll, M.; Bozóki, Z.; Szabó, G.
Photoacoustic system for monitoring hydrogen sulphide (H₂S) in natural gas and in biogas

XY0298; EGU2007-A-10178; ERE3-1TH2P-0298

AMPAS, V.; Baltas, E.

The effect of the daily distribution of the sunshine hours to the total daily solar radiation

XY0299; EGU2007-A-00062; ERE3-1TH2P-0299

Falayi, E. O.; Rabi, A.B.; Elemo, O.

Prediction of clearness index using temperature measurements from Nigerian meteorological stations

XY0300; EGU2007-A-01336; ERE3-1TH2P-0300

Uyigue, E.; Agho, M.

An assessment of the potential for the development of bioenergy in Nigeria

XY0301; EGU2007-A-11641; ERE3-1TH2P-0301

Longo, R.M.; Ribeiro, A.I.; de Melo, W.J.; Russo, A.C.

Physical-chemical characterization in the Babaçu fruits (*Speciosa Orbignya*) with the use purpose as biocombustivel in low income communities in the Amazonian Forest

XY0302; EGU2007-A-02117; ERE3-1TH2P-0302

Kaushik, N.; Kumar, K.; Kumar, S.

Potential of *Jatropha curcas* for biodiesel production in India

ERE4 Advances in CO₂ storage in geological systems – Posters

Convener: Busch, A.

Co-Convener(s): Kühn, M.; Etheridge, D.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 15:30–17:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0303; EGU2007-A-02816; ERE4-1TH4P-0303

Krüger, M.; Schulz, H.M.; May, F.; Gerling, P.; Kosiński, M.; Faber, E.; Poggenburg, J.; Teschner, M.
CO₂GeoNet: A European Network of Excellence on Geological Storage of CO₂

XY0304; EGU2007-A-04572; ERE4-1TH4P-0304

Beaubien, S.E.; The CO₂GeoNet Team

A study into the impact of a naturally-occurring CO₂ gas vent on the ecosystem of a Mediterranean pasture (Latera, Italy).

XY0305; EGU2007-A-04529; ERE4-1TH4P-0305

Annunziatellis, A.; Bateson, L.; Vellico, M.; Beaubien, S.E.; Ciotoli, G.; Coren, F.; Lombardi, S.; Marsh, S.H.; Pearce, J.M.

Testing and verification of remote sensing techniques on a naturally-leaking CO₂ reservoir (Latera, Italy): implications for monitoring of CO₂ geological storage sites.

XY0306; EGU2007-A-04553; ERE4-1TH4P-0306

Annunziatellis, A.; Beaubien, S.E.; Ciotoli, G.; Coltella, M.; Lombardi, S.

The testing of an open-path infrared laser system above naturally-occurring CO₂ gas vents (Latera, Italy): potential for atmospheric monitoring above a CO₂ geological storage site.

XY0307; EGU2007-A-07442; ERE4-1TH4P-0307

Gei, D.; Picotti, S.; Rossi, G.; Carcione, J. M.

Physics, seismic numerical modeling and tomographic inversion for monitoring CO₂ geological storage.

XY0308; EGU2007-A-09207; ERE4-1TH4P-0308

Kühn, M.; Back, M.; Clauser, C.; Stanjek, H.; Peiffer, S.

Mineral trapping of CO₂ in operated hydrogeothermal reservoirs

XY0309; EGU2007-A-11400; ERE4-1TH4P-0309

Back, M.; Kühn, K.; Stanjek, H.; Peiffer, S.

Carbon dioxide sequestration with brown coal fly ashes

XY0310; EGU2007-A-11531; ERE4-1TH4P-0310

Kassahun, A.; Hoffmann, M.; Hoth, N.

Abiotic H₂ generation supporting microbial CO₂ transformation in geological storage units

XY0311; EGU2007-A-11089; ERE4-1TH4P-0311

Orešnik, K.O.; Kozinc, J.K.; Justin, B.J.; Špeh, N.Š.; van Wageningen, N.W.

CO₂ storage and ECBM case study in Velenje Coalmine

XY0312; EGU2007-A-09651; ERE4-1TH4P-0312

Baele, J.M.; Raucq, V.; De Weireld, G.; Legrain, H.; Billemont, P.; Tshibangu, K.; Dupuis, C.

Geological storage of CO₂ : new concepts from storage capacity evaluation in Belgian Westphalian rocks.

XY0313; EGU2007-A-11401; ERE4-1TH4P-0313

Goodman, A.; Larsen, J.; Warzinski, R.; Romanov, V.; Soong, Y.

Factors influencing CO₂ sorption in coal seams

XY0314; EGU2007-A-03117; ERE4-1TH4P-0314

Day, S.; Duffy, G.; Sakurovs, R.; Weir, S.

Effect of coal properties on CO₂ sorption capacity under supercritical conditions

XY0315; EGU2007-A-09398; ERE4-1TH4P-0315

Billemont, P.; Baele, J-M.; BaeleLegrain, H.; De Weireld, G.
Simple method to estimate maximum recoverable coalbed methane and carbon dioxide storage capacity from pure methane and carbon dioxide adsorption isotherms

XY0316; EGU2007-A-09645; ERE4-1TH4P-0316

Kempka, T.; Waschbüsch, M.; Fernández-Steege, T.; Azzam, R.

Parameterisation of numerical models for CO₂ storage with regard to storage security during longwall mining operations

XY0317; EGU2007-A-01138; ERE4-1TH4P-0317

Vosteen, H.-D.; May, F.

Geochemical cap rock reactions associated with the option of CO₂ storage and enhanced gas recovery (CSEGR)

XY0318; EGU2007-A-07460; ERE4-1TH4P-0318

Wollenweber, J.; Alles, S.; Busch, A.; Krooss, B.M.

Experimental investigation of the CO₂ sealing efficiency of a regional cap rock in W Germany

XY0319; EGU2007-A-06734; ERE4-1TH4P-0319
Busch, A.; Alles, S.; Krooss, B.M.; Dewhurst, D.
 Potential of caprocks as CO₂ storage reservoirs

XY0320; EGU2007-A-06824; ERE4-1TH4P-0320
Liteanu, E; Spiers, C; Peach, C
 The influence of CO₂ injection on pressure solution creep of carbonate rocks

XY0321; EGU2007-A-10366; ERE4-1TH4P-0321
Pereira, D.
 Serpentinites as an option for CO₂ capture: the role of precursor minerals

XY0322; EGU2007-A-11716; ERE4-1TH4P-0322
Kuenzer, C.; Wessling, S.; Zhang, J.; Litschke, T.; Schmidt, M.; Schulz, J.; Gielisch, H.; Wagner, W.
 Concepts for Green House Gas Emission Estimation of underground Coal Seam Fires

Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00

ERE Poster Area
 Chairperson: N.N.

ERE5 Climate change impact on economical and industrial activities (co-listed in CL) – Posters

Convener: Parey, S.
 Co-Convener(s): Morse, A., Rothstein, B.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 13:30–15:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0323; EGU2007-A-04680; ERE5-1TH3P-0323
Cyr, J.-F.; Turcotte, R.; Fortin, L.-G.
 Two pilot projects on climate change impacts and adaptation of watershed management in Southern Quebec, Canada

XY0324; EGU2007-A-05090; ERE5-1TH3P-0324
Vescovi, L.; Musy, A.; Roy, R.; Turcotte, R.; Cyr, J.F.; Braun, M.; Mauser, W.; Ludwig, R.
 Integrative watershed management under climate change conditions - A comparison of major issues, research methods and problem solving strategies in Quebec and Bavaria

XY0325; EGU2007-A-05122; ERE5-1TH3P-0325
Iizumi, T.; Hori, M. E.; Yokozawa, M.; Nakagawa, H.; Hayashi, Y.; Kimura, F.
 Impact of global warming on rice production in Japan based on five coupled Atmosphere-Ocean GCMs

XY0326; EGU2007-A-09480; ERE5-1TH3P-0326
Grieser, J.; Gommers, R.; Bernardi, M.
 From Climate Change to Crop-Yield Change

XY0327; EGU2007-A-00180; ERE5-1TH3P-0327
Lane, K.; Marshall, S
 Evaluation of climate events that influence the ground transportation industry along the TransCanada corridor: historical trends and GCM projections

ERE6 Integrated assessment of energy options and risk assessment methodologies (co-listed in CL) – Posters

Convener: Held, H.
 Co-Convener(s): Bruckner, T.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 13:30–15:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0328; EGU2007-A-09122; ERE6-1TH3P-0328
Cianelli, D.; Zambianchi, E.; Manfra, L.; Maggi, C.; Cappiello, A.; Lattanzi, L.; Mannozi, M.; Cicero, A. M.
 An integrated approach to study the dispersion of produced formation waters in the Adriatic Sea (Italy)

ERE7 Natural stone resources for historical monuments – Posters

Convener: Prikryl, R.
 Co-Convener(s): Török, Á.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 10:30–12:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0329; EGU2007-A-03262; ERE7-1TH2P-0329
Nijland, T.G.; van Hees, R.P.J.; Bolondi, L.
 Evaluation of some Italian tuffs as compatible replacement stone for Römer tuff in the Netherlands

XY0330; EGU2007-A-03507; ERE7-1TH2P-0330
Pápay, Z.; Török, Á.
 Fabric related changes in water absorption and strength of Miocene porous limestones; the commonest dimension stones of Budapest

XY0331; EGU2007-A-03921; ERE7-1TH2P-0331
Andriani, G.F.; Walsh, N.
 Soft and porous building rocks in Apulian Monuments (Southern Italy)

XY0332; EGU2007-A-04039; ERE7-1TH2P-0332
GARCIA DEL CURA, M.A.; Benavente, D.; Bernabéu, A.; González-Martín, J.A.; Martínez-Martínez, J.; Rodríguez, M.A.; Sanz-Montero, M.E.
 Porosity features of travertines from SE Spain used as building stone in construction and architectural restoration. Preliminary report.

XY0333; EGU2007-A-04254; ERE7-1TH2P-0333
Figueiredo, C.; Folha, R.; Dionísio, A.; Maurício, A.; Alves, C.; Aires-Barros, L.
 Contribution to the technological characterization of two widely used Portuguese Dimensional Stones: the “Semi-rijo” and “Moca Creme” stones

XY0334; EGU2007-A-04435; ERE7-1TH2P-0334
Forgó, L.Z.; Török, Á.; Siegesmund, S.; Ruedrich, J.; Stück, H.
 Effect of stone consolidants on the physical properties of Hungarian rhyolite tuff monumental stones

XY0335; EGU2007-A-05052; ERE7-1TH2P-0335
Marszałek, M.; Skowroński, A.
 Black limestone - the characteristic material in Baroque architecture in Poland

XY0336; EGU2007-A-05494; ERE7-1TH2P-0336
Blanco, J.A.; Peinado, M.; Pereira, D.; Yenes, M.; Nepereira, J.; Monterrubio, S.
 Mineralogy of serpentinites: a clue for their use as ornamental stones

XY0337; EGU2007-A-05935; ERE7-1TH2P-0337
Takaya, Y.; Hatta, T.
 Surface analytical approaches to artificial weathering of Aji-granite and its constituent minerals under acidic conditions by AFM and XPS

XY0338; EGU2007-A-06901; ERE7-1TH2P-0338
Silva, J.; Rocha, A.; Gomes, J.; Gomes, C.; EnGeoMad
 Methodologies adopted in the survey of the distinct pathologies displayed by the multitype volcanic natural stone applied on the Cathedral of Funchal, Madeira island

XY0339; EGU2007-A-07169; ERE7-1TH2P-0339
Prikryl, R.; Novotny, J.; Weishauptova, Z.; Makalova, K.; Krutilova, K.
 Exploration and testing of the authentic and alternative stone types for the monument repair: a case study of clastic sedimentary rocks at the Charles Bridge in Prague (Czech Republic)

XY0340; EGU2007-A-07589; ERE7-1TH2P-0340
Lammel, M.; Lehrberger, G.
 Identification of the carbonate sources and quarries for historical lime-mortars in Teplá and Karlovy Vary, Czech Republic

XY0341; EGU2007-A-07911; ERE7-1TH2P-0341
Gillhuber, S.; Lehrberger, G.; Snethlage, R.
 Provenance and characteristics of rocks used for the construction of the Teplá monastery in Western Czech Republic

XY0342; EGU2007-A-07973; ERE7-1TH2P-0342
Prikryl, R.; Gajda, J.; Martinec, P.; Vavro, M.
 Chlorite-talc schists as the extraordinary sculptural stone of the Northern Moravia (Czech Republic)

XY0343; EGU2007-A-08105; ERE7-1TH2P-0343
Thomachot, C.; Fronteau, G.; Lombard, A.; Barbin, V.
 Dilatometric behaviour of building stones submitted to brine

XY0344; EGU2007-A-08133; ERE7-1TH2P-0344
Lehrberger, G.; Minet, C.
 Inventory and provenance of decoration stones in the interior of the Teplá monastery in Western Czech Republic

XY0345; EGU2007-A-08227; ERE7-1TH2P-0345
 Fronteau, G.; **Thomachot, C.;** Chopin, E.; Barbin, V.; Mouze, D.; Pascal, A.
 Black crust growth processes and crust-stone interface in relation with subjacent limestone microfacies.

XY0346; EGU2007-A-08480; ERE7-1TH2P-0346
Kadlcaková, J.; Lehrberger, G.
 Recent carbonate sinter-formation in Karlovy Vary (Karlsbad), Czech Republic: an approach with “petrifying” experiments

XY0347; EGU2007-A-08564; ERE7-1TH2P-0347
Krutilova, K.; Prikryl, R.
 Workability of traditional monumental stones – relationship between petrographic, rock fabric, geomechanical and technological parameters

XY0348; EGU2007-A-08762; ERE7-1TH2P-0348
Török, Á.; Görög, P.; Vársárhelyi, B.; Prikryl, R.
 Diagnostic approaches to assess natural stone quality on historical bridges: a comparative study of the Liberty Bridge (Budapest, Hungary) and the Charles Bridge (Prague, Czech Republic)

XY0349; EGU2007-A-08816; ERE7-1TH2P-0349
Prikryl, R.; Prikrylova, J.; Siegl, P.
 Greisens – the unconventional sculptural and architectural stone

XY0350; EGU2007-A-10184; ERE7-1TH2P-0350
García del Cura, M. A.; Cámara, B.; De los Ríos, A.; Ascaso, C.
 Dolostones as building materials of the medieval churches of Segovia (Spain): textural features and bioalteration.

XY0351; EGU2007-A-10453; ERE7-1TH2P-0351
Lehrberger, G.; Kadlcaková, J.
 Carbonate sinters – material characteristics and historical applications of a highly decorative stone material

XY0352; EGU2007-A-11021; ERE7-1TH2P-0352
Martinec, P.; Vavro, M.; Mashlan, M.
 Green sandstones – building and decorative stones from the Czech Republic

XY0353; EGU2007-A-11025; ERE7-1TH2P-0353
 Beck, K.; **Al-Mukhtar, M.**
 This presentation is a part of a larger project concerning the understanding of monument deterioration processes by a multi-scales approach. It is interesting to notice that a part of the degradation of monuments built with a limestone often find their origins in an incompatible association between the original construction stone and the stone of replacement in restoration works

Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 13:30–15:00

ERE Poster Area
 Chairperson: N.N.

ERE8 Aggregates – the most widely used geological material – Posters

Convener: Prikryl, R.
 Co-Convener(s): Török, Á., Miskovsky, K.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 15:30–17:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0354; EGU2007-A-07523; ERE8-1TH4P-0354
Holzer, R.; Laho, M.; Greif, V.; Bednarik, M.; Wagner, P.
 Engineering Geological Atlas of Rocks in Slovakia – interactive database of the crushed stone

XY0355; EGU2007-A-04776; ERE8-1TH4P-0355
Miskovsky, K.; Prikryl, R.; Loorents, K. J.; Göransson, M.; Török, A.
 Establishment of database for mechanical characteristics of the common rock materials used for aggregate production

XY0356; EGU2007-A-07182; ERE8-1TH4P-0356
Prikryl, R.
 Are rock fabric coefficients applicable for evaluation of the mechanical performance of the rocks?

XY0357; EGU2007-A-08452; ERE8-1TH4P-0357
 Prikryl, R.; Svoboda, F.
 Influence of petrographic parameters and the test conditions on the assessment of fines by loss-in-weight drying method

XY0358; EGU2007-A-01892; ERE8-1TH4P-0358
Miskovsky, K.
 Enrichment of Fine Mica Originating from Rock Aggregate Production and its Influence on the Mechanical Properties of Bituminose Mixtures

XY0359; EGU2007-A-06659; ERE8-1TH4P-0359
Miskovsky, K.
 Enrichment of Fine Mica Originating from Rock Aggregate Production and its Influence on the Mechanical Properties of Bituminous Mixtures

XY0360; EGU2007-A-07275; ERE8-1TH4P-0360
Johansson, EJ; Loorents, KJL; Miskovsky, KM
 A method for estimation of free mica particles in aggregate fine fraction by image analysis of grain mounts

XY0361; EGU2007-A-11023; ERE8-1TH4P-0361
Martínez, P.; Vavro, M.; Safrata, J.
 Granodiorite (Litice type) – building stone, gravel aggregates for HPC and HSC concrete and crushed stone for road works

XY0362; EGU2007-A-01483; ERE8-1TH4P-0362
Marrocchino, E.; Koulouris, A.
 Petro-chemical investigation as a tool for quality control in the production of recycled aggregates for concrete

XY0363; EGU2007-A-01791; ERE8-1TH4P-0363
Marrocchino, E.; Toffano, A.; Vaccaro, C.
 Chemical-mineralogical characterisation of construction and demolition waste: the case study of Fenza Daniela plant.

XY0364; EGU2007-A-03435; ERE8-1TH4P-0364
Rübner, K.; Haamkens, F.; Linde, O.
 Use of Municipal Solid Waste Incinerator Bottom Ash as Aggregate in Concrete

XY0365; EGU2007-A-03643; ERE8-1TH4P-0365
Kasina, M.; Michalik, M.
 Mineralogical composition of fresh slag

XY0366; EGU2007-A-05084; ERE8-1TH4P-0366
Kárpáti, L.; Gálos, M.; Török, Á.
 Classification of Hungarian aggregates for railway ballast according to EN 13450: 2002

XY0367; EGU2007-A-06087; ERE8-1TH4P-0367
Pfleiderer, S.; Untersweg, T.; Heinrich, M.; Weber, L.
 The Austrian mineral resources plan - evaluation of aggregates

XY0368; EGU2007-A-02614; ERE8-1TH4P-0368
Lukschová, Š.; Pøikryl, R.; Pertold, Z.
 Study of the alkali-silica reactivity potential of sands and gravels from Czech quaternary deposits by petrographical and dilatometrical methods

XY0369; EGU2007-A-08475; ERE8-1TH4P-0369
Svorc, P.; Prikryl, R.; Lukschova, S.
 Effect of sampling and sample preparation on the determination of alkali-silica reactivity of sands

XY0370; EGU2007-A-10870; ERE8-1TH4P-0370
Jeffrey, K.;
 Variogram analysis for sand and gravel deposit evaluation - implications for reserve definition

XY0371; EGU2007-A-10835; ERE8-1TH4P-0371
Jeffrey, K.;
 Next Generation Aggregates – the shape of things to come

Geochemistry, Mineralogy, Petrology & Volcanology

GMPV2 New monitoring techniques applied to active volcanoes

Convener: Falsaperla, S.
 Co-Convener(s): Oppenheimer, C., Edmonds, M.
 Lecture Room 21 (O)
 Chairperson: FALSAPERLA, S., EDMONDS, M.

8:30–8:45; EGU2007-A-03969; GMPV2-1TH1O-001
Odbert, H.M.; Wadge, G.; Macfarlane, D.G.; James, M.; Robertson, D.A.; Pinkerton, H.
 Frequent remote topographic mapping and lava flux measurement using AVTIS (solicited)

8:45–9:00; EGU2007-A-02239; GMPV2-1TH1O-002
Neri, M.; Behncke, B.; Burton, M.; Galli, G.; Giannamano, S.; Pecora, E.; Privitera, E.; Reitano, D.
 The July 2006 eruption of Mount Etna (Italy) monitored through continuous soil radon measurements

9:00–9:15; EGU2007-A-02970; GMPV2-1TH1O-003
Masotti, M.; Falsaperla, S.; Langer, H.; Spampinato, S.; Campanini, R.
 Activity regimes inferred from automatic classification of volcanic tremor at Mt. Etna, Italy

9:15–9:30; EGU2007-A-03440; GMPV2-1TH1O-004
Ibs-von Seht, M.; Kniess, R.
 Event detection for seismic signals recorded at Krakatau volcano using artificial neural networks

9:30–9:45; EGU2007-A-06583; GMPV2-1TH1O-005
D'Anna, G.; Mangano, G.; D'Alessandro, A.; Amato, A.
 The new INGV broadband OBS/H: test results on submarine volcano Marsili and future developments. (solicited)

9:45–10:00; EGU2007-A-05098; GMPV2-1TH1O-006
Martínez, M.; Takano, B.; Sáenz, W.; Fernández, E.; van Bergen, M.J.; Barboza, V.; Duarte, E.
 Tracing changes in SO₂/H₂S ratios in subaqueous fumarole gases by monitoring polythionates in the ultra-acidic crater lake of Rincón de la Vieja Volcano (Costa Rica) (cancelled)

10:00 COFFEE BREAK

Chairperson: FALSAPERLA, S., EDMONDS, M.

10:30–10:45; EGU2007-A-04074; GMPV2-1TH2O-001
Zeni, L.; Minardo, A.; Petrillo, Z.; Piochi, M.; Scarpa, R.; Bernini, R.
 Distributed optical fiber sensors: an approach for monitoring the thermal gradient at the Campi Flegrei caldera (solicited)

10:45–11:00; EGU2007-A-01423; GMPV2-1TH2O-002
Galle, B.; The NOVAC team
 NOVAC – Network for Observation of Volcanic and Atmospheric Change

11:00–11:15; EGU2007-A-00471; GMPV2-1TH2O-003
Coppola, D.; Staudacher, T.; Cigolini, C.
 The Radiative Thermogramme: a useful way to visualize field thermal data

11:15–11:30; EGU2007-A-09039; GMPV2-1TH2O-004
Carling, G.; Saito, T.; Dangerfield, A.; Radebaugh, J.; Tingey, D.; Keith, J.; South, J.
 Measuring lava eruption temperatures with a digital camcorder at Kilauea volcano, Hawaii, USA

11:30–11:45; EGU2007-A-04460; GMPV2-1TH2O-005
Lombardo, V.; Taddeucci, I.; Spinetti, C.; Buongiorno, M.F.; Zimanowski, B.
 Experimental measurements of spectral emissivity of basaltic melt

11:45–12:00; EGU2007-A-11387; GMPV2-1TH2O-006
Romeo, G.; Urbini, G.; Benedetti, P.; Mari, M.
 Modular thermal gradiometer (solicited)

12:00 END OF SESSION

GMPV2 New monitoring techniques applied to active volcanoes – Posters

Convener: Falsaperla, S.

Co-Convener(s): Oppenheimer, C., Edmonds, M.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 13:30–15:00

Poster Area Hall A

Chairperson: FALSAPERLA, S., EDMONDS, M.

A0067; EGU2007-A-10076; GMPV2-1TH3P-0067

Kniess, R.; Ibs von Seht, M

GPS deformation measurement from the Krakatau volcano (Indonesia)

A0068; EGU2007-A-07238; GMPV2-1TH3P-0068

Meurers, B.; Schattauer, I.; Stotter, Ch.; Supper, R.

Assessment of temporal magnetic field variations on the Aeolian Islands

A0069; EGU2007-A-09785; GMPV2-1TH3P-0069

Lokmer, I.; Bean, C.J.; Saccorotti, G.

Long period activity at Mount Etna in 2004 – Green's function computations and moment-tensor inversion (solicited)

A0070; EGU2007-A-06086; GMPV2-1TH3P-0070

Di Grazia, G.; **Cannata, A.**; Alparone, S.; Gresta, S.

Time variations of the Long Period events recorded at Mt. Etna during November 2003 - May 2006

A0071; EGU2007-A-09007; GMPV2-1TH3P-0071

Caputo, T.; Giudicepietro, F.; Martini, M.; D'Auria, L.; Esposito, A. M.

Temporal evolution analysis of the Stromboli volcano seismicity

A0072; EGU2007-A-08553; GMPV2-1TH3P-0072

Diliberto, I. S.; Alparone, S.; Liotta, M.; Madonia, P.

Relationship between surface temperature and seismic activity at Vulcano (Aeolian Island)

A0073; EGU2007-A-05854; GMPV2-1TH3P-0073

Alparone, S.; Cammarata, L.; Cannata, A.; **Gambino, S.**; Milluzzo, V.; Rapisarda, S.; Zuccarello, L.; Gresta, S.

New insights on classification and location of microseismicity at La Fossa (Vulcano, Italy)

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 15:30–17:00

Poster Area Hall A

Chairperson: FALSAPERLA, S., EDMONDS, M.

A0074; EGU2007-A-05120; GMPV2-1TH4P-0074

Masotti, M.; Campanini, R.; Mazzacurati, L.; Falsaperla, S.; Langer, H.; Spampinato, S.

TREMOrEC: a software utility for automatic classification of volcanic tremor

A0075; EGU2007-A-02777; GMPV2-1TH4P-0075

Cannata, A.; Di Grazia, G.; Gresta, S.

Cross correlation analysis between infrasonic and seismic signals related to the explosive activity occurring at Mt. Etna in October-November 2006

A0076; EGU2007-A-08182; GMPV2-1TH4P-0076

Contrafatto, D.; Ferrari, F.

Automatic fine leveling system for generic triaxial seismic sensor

A0077; EGU2007-A-03793; GMPV2-1TH4P-0077

Biale, E.; Mangiagli, S.; **Neri, M.**; Pecora, E.; Reitano, D.; Behncke, B.

The recent eruptive activity of Mount Etna (Italy) monitored by a network of visible and thermal video cameras

A0078; EGU2007-A-03801; GMPV2-1TH4P-0078

Mangiagli, S.; Neri, M.; Pecora, E.; Reitano, D.; Aman-
tia, A.; Biale, E.; D'Agostino, M.; La Via, M.; Torrisi, O.

The 2006 eruption of Mt. Etna (Italy): new multidisciplinary approach implemented by the UFSO staff of INGV Catania Section

A0079; EGU2007-A-05099; GMPV2-1TH4P-0079

Dangerfield, A.; Radebaugh, J.; Carling, G.; Tingey, D.; Keith, J.; South, J.

Accuracy of MODIS on Kilauea eruption temperatures (solicited)

A0080; EGU2007-A-09585; GMPV2-1TH4P-0080

Andronico, D.; **Spinetti, C.**; Cristaldi, A.; Buongiorno, M.F.

Mt. Etna ash plume during 2006 eruptions: integrated approach from satellite remote sensing and ground-based monitoring system (solicited)

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 17:30–19:00

Poster Area Hall A

Chairperson: FALSAPERLA, S., EDMONDS, M.

A0081; EGU2007-A-01455; GMPV2-1TH5P-0081

Meier, V.; **Scuderi, L.**; Fischer, T.; Realmuto, V.; Hilton, D.; Yuhua, A.

Comparisons of satellite and ground-based sulfur dioxide retrievals

A0082; EGU2007-A-01501; GMPV2-1TH5P-0082

Martínez, M.; van Bergen, M. J.; Fernández, E.; Takano, B.; Sáenz, W

Tracing changes in SO₂/H₂S ratios in subaqueous fumarolic discharges by monitoring polythionates in the ultra-acidic crater lake of Poás Volcano, Costa Rica (cancelled)

A0083; EGU2007-A-10048; GMPV2-1TH5P-0083

Bobrowski, N.; Inguaggiato, S.

Continuous SO₂ flux measurements at Vulcano Island, Aeolian Archipelago (Italy)

A0084; EGU2007-A-02344; GMPV2-1TH5P-0084

Wiersberg, T.; **Somma, R.**; Rocco, A.; De Rosa, M.; Zimmer, M.; Quattrocchi, F.; De Natale, G.; De Natale, P.

Continuous in-situ measurements of gases (H₂, H₂S, CH₄, N₂, O₂, Ar, He, and CO₂) at the fumarole "Soffionissimo" (Solfatara volcano, southern Italy)

A0085; EGU2007-A-01948; GMPV2-1TH5P-0085

Amantia, A.

Past and new analysis of the morphological changes at the summit of Mt. Etna volcano (Italy) through use of aerial photographs: 1976 - 2006

GMPV8 Volcanic and non-volcanic Earth degassing

Convener: Chiodini, G.

Co-Convener(s): Allard, P.

Lecture Room 21 (O)

Chairperson: CHIODINI, A.

13:30–13:45; EGU2007-A-02140; GMPV8-1TH3O-001

Marty, B.

Tracing long-term fluxes of volatile elements between surface and mantle reservoirs (solicited)

13:45–14:00; EGU2007-A-02250; GMPV8-1TH3O-002

Barsanti, M.; Barbato, D.; Papale, P.; Longo, A.; Moretti, R.

Large carbon dioxide abundance in magma from Kilauea volcano, Hawaii

14:00–14:15; EGU2007-A-09799; GMPV8-1TH3O-003

Allard, P.

Volcanic fluxes of water from Mount Etna and Stromboli (Italy): measurements and implications

14:15–14:30; EGU2007-A-01863; GMPV8-1TH3O-004

Aiuppa, A.; Federico, C.; Giudice, G.; Gurrieri, S.; Liuzzo, M.; Moretti, R.; Shinohara, H.; Valenza, M.

Real-time detection of volcanic plume H₂O, CO₂ and SO₂ as a precursor to 2006 Mt. Etna eruptions.

14:30–14:45; EGU2007-A-02703; GMPV8-1TH3O-005

Witt, M.; Aiuppa, A.; Bagnato, E.; Mather, T.; Pyle, D.

Volcanic emissions of mercury to the atmosphere

14:45–15:00; EGU2007-A-07655; GMPV8-1TH3O-006

Miller, S.A.

Link between earthquakes, aftershocks and earth degassing (solicited)

15:00 COFFEE BREAK

Chairperson: ALLARD, P.

15:30–15:45; EGU2007-A-05343; GMPV8-1TH4O-001

Sobissevitch, A.L.; Pronin, A.P.; Nechaev, Yu.V.; Pouzich, I.N.

Fluid-Magmatic systems of Central and North-Western Caucasus: Geodynamics, Seismicity and Fluid Activity

15:45–16:00; EGU2007-A-02971; GMPV8-1TH4O-002

Chiodini, G.; Valenza, M.

Earth degassing in Italy: results of the first year of the project “Diffuse Degassing in Italy, INGV-DPC V5 Project”

16:00–16:15; EGU2007-A-10812; GMPV8-1TH4O-003

Carapezza, M.L.; Roscioni, F.R.; Tarchini, L.

the contrasting effects of earthquake-induced permeability increase and of permeability reduction by hydrothermal self-sealing: a possible clue to explain CO₂ time variation recorded at Colli Albani, Rome

16:15–16:30; EGU2007-A-07469; GMPV8-1TH4O-004

Annunziatellis, A.; Beaubien, S.E.; Ciotoli, G.; Coltella, M.; Lombardi, S.

Total CO₂ flux from the Latera caldera and how flux rates affect the transfer of other reactive gas species to the atmosphere: the results of highly detailed surveys on and across individual gas vents.

16:30–16:45; EGU2007-A-08266; GMPV8-1TH4O-005

Viveiros, F.; Ferreira, T.; Vieira, J.C.; Gaspar, J.L.; Silva, C. CO₂ soil flux permanent stations in S. Miguel Island (Azores archipelago) – time series analysis

16:45–17:00; EGU2007-A-09268; GMPV8-1TH4O-006

Battani, A.; Jeandel, E.; Tocqué, E.; Sarda, Ph.; Benoit, Y.; Le Pierres, K.

Gas study from natural CO₂-degassing sources near Sainte Marguerite, Allier, France

17:00 END OF SESSION

GMPV8 Volcanic and non-volcanic Earth degassing – Posters

Convener: Chiodini, G.

Co-Convener(s): Allard, P.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 08:30–10:00

Poster Area Hall A

Chairperson: CHIODINI, G. - ALLARD, P.

A0086; EGU2007-A-01963; GMPV8-1TH1P-0086

Vaselli, O.; Tassi, F.; Minissale, A.; Nisi, B.; Delgado Huer-tas, A.; Cuccoli, F.; Darrah, T.; Tedesco, D.; Montegrossi, G. Natural CO₂ degassing in Tuscany (Central Italy)

A0087; EGU2007-A-02180; GMPV8-1TH1P-0087

Tassi, F.; Aguilera, F.; Medina, E.; Vaselli, O.; Tedesco, D.; Poreda, R.J.

First geochemical survey of fumarolic gases from Lascar volcano (Central Andes, Chile)

A0088; EGU2007-A-02746; GMPV8-1TH1P-0088

Parello, F.; Giammanco, S.; Schifano, R.

Quantification of methane output from mud volcanoes and mofettes south of Mt. Etna (Italy)

A0089; EGU2007-A-03544; GMPV8-1TH1P-0089

Parello, F.; Gristina, L.; Pisciotta, A.; Schifano, R.; Giammanco, S.

Soil CO₂ emissions from the lower SW flank of Mt. Etna: Estimate of organic and magmatic contributions to the total degassing.

A0090; EGU2007-A-04030; GMPV8-1TH1P-0090

Camarda, M.; De Gregorio, S.; Gurrieri, S.

Temporal and spatial variations in soil CO₂ flux exhaled in peripheral areas of Mt. Etna during the last two years

A0091; EGU2007-A-02932; GMPV8-1TH1P-0091

Aiuppa, A.; IschiaTeam

Soil and groundwater discharge of magmatic/hydrothermal CO₂ and He on south-western Ischia Island (Central Italy)

A0092; EGU2007-A-02937; GMPV8-1TH1P-0092

Cardellini, C.; Chiodini, G.; Frigeri, A.; Frondini, F.

Heat flow and CO₂ flux from western central Italy

A0093; EGU2007-A-02954; GMPV8-1TH1P-0093

Donnini, M.; Chiodini, G.; Avino, R.; Baldini, A.; **Cardellini, C.**; Caliro, S.; Frondini, F.; Granieri, D.; Morgantini, N.

Carbon dioxide degassing at Bagni San Filippo (Tuscany, Italy): quantification and modelling of gas release.

A0094; EGU2007-A-03542; GMPV8-1TH1P-0094

Cardellini, C.; Caliro, S.; Chiodini, G.; **Frondini, F.**; Morgantini, N.

Water-gas-rock interactions in carbonate-evaporite aquifers sited in CO₂ degassing areas

A0095; EGU2007-A-05917; GMPV8-1TH1P-0095

Gambino, S.; Guglielmino, F.

Modelling of ground deformation related to geothermal processes

A0096; EGU2007-A-06841; GMPV8-1TH1P-0096

Tedesco, D.; Castaldi, S.; Giaretta, I.; Nunziata, G.

Carbon dioxide and Methane gas emanations of volcanic and natural areas in central Italy.

A0097; EGU2007-A-06832; GMPV8-1TH1P-0097

Ikehata, K

The Geochemistry of volatile species in melt inclusions and sulfide minerals at Izu-Oshima volcano, Japan

A0098; EGU2007-A-07662; GMPV8-1TH1P-0098

Kotnik, J.; Giammanco, S.

Mercury in air and volcanic gasses at Mt. Etna area

A0099; EGU2007-A-07790; GMPV8-1TH1P-0099

Pfanz, H.; Heide, K.; Viereck-Götte, L.; Saßmannshausen, F.; Schmidt, C.; Müller, D.; Koch, U.; Büchel, G.

Plant based detection of dry mofettes - an example from the volcanic Laacher See district, Germany

A0100; EGU2007-A-08124; GMPV8-1TH1P-0100
Viveiros, F.; Ferreira, T.; Gaspar, J.L.; Virgili, G.; Silva, C.
 Gas geochemical monitoring system in Furna do Enxofre
 lava cave (Graciosa Island, Azores)

A0101; EGU2007-A-08372; GMPV8-1TH1P-0101
Silva, C.; Ferreira, T.; Viveiros, F.
 Radon (²²²Rn) soil gas measurements at Furnas Volcano (S.
 Miguel Island, Azores)

A0102; EGU2007-A-10125; GMPV8-1TH1P-0102
Antunes, P.; Cruz, J.; Freire, P.; Coutinho, R.
 Hydrogeochemistry of volcanic lakes from Flores islands
 (Azores, Portugal): preliminary data

A0103; EGU2007-A-07883; GMPV8-1TH1P-0103
Africano, F.
 Trace element contents of sulfur spherules in acid crater
 lakes: signals of volcanic activity

A0104; EGU2007-A-04401; GMPV8-1TH1P-0104
Flaathen, T.K.; Gislason, S.R.
 Contamination of Surface Waters caused by Volcanic Ash
 Fall

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 10:30–12:00

GMPV Poster Area
 Chairperson: N.N.

GMPV12 The mantle perspective: compositional and rheological constraints on lithosphere evolution

Convener: Piccardo, G.
 Co-Convener(s): Ranalli, G., Vannucci, R.
 Lecture Room 21 (O)
 Chairperson: GIORGIO RANALLI

17:30–17:45; EGU2007-A-02765; GMPV12-1TH5O-001
Gasparini, D.; Bosch, D.; Braga, R.; Bondi, M.; **Macera, P.**;
 Morten, L.
 Metasomatism of the SE Alps mantle lithosphere: evidence
 from ultramafic xenoliths of the Veneto Volcanic Province

17:45–18:00; EGU2007-A-10328; GMPV12-1TH5O-002
Batanova, V.G.; Bruegmann, G.E.; Belousov, I.A.;
 Savelieva, G.N.; Sobolev, A.V.
 HSE, Os isotopes and LILE as tracers of processes in supra-
 subduction mantle (Voykar Complex, Polar Ural Ophiolites)

18:00–18:15; EGU2007-A-01344; GMPV12-1TH5O-003
Kogarko, L.N.; Ntaflos, T.
 Geochemical evolution of the lithospheric mantle beneath
 East Antarctic (oasis Jetty)

18:15–18:30; EGU2007-A-08474; GMPV12-1TH5O-004
Afonso, J. C.; Fernandez, M.; Ranalli, G.
 An integrated modelling approach to understanding com-
 bined geophysical-petrological processes in the lithospheric-
 sublithospheric mantle

18:30–18:45; EGU2007-A-08579; GMPV12-1TH5O-005
Corti, G.; Ranalli, G.; Piccardo, G.B.; Manetti, P.
 Percolation of lithospheric mantle by asthenospheric melt
 and its influence on continental breakup

18:45–19:00; EGU2007-A-09350; GMPV12-1TH5O-006
Pruzzo, A.; Piccardo, G.B.; Zanetti, A.
 The Northern Lanzo peridotite massif (Western Italian
 Alps): sub-continental lithospheric mantle percolated and
 impregnated by MORB melts.

19:00 END OF SESSION

GMPV12 The mantle perspective: compositional and rheological constraints on lithosphere evolution – Posters

Convener: Piccardo, G.
 Co-Convener(s): Ranalli, G., Vannucci, R.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 13:30–15:00
 Poster Area Hall A
 Chairperson: GIOVANNI B. PICCARDO

A0105; EGU2007-A-00476; GMPV12-1TH3P-0105
Monsef, I.; Rahgoshay, M.; Shafaii Moghadam, H.
 Peridotites from the Khoi ophiolitic complex, NW of Iran:
 Evidence for mantle beneath a supra-subduction zone setting

Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 15:30–17:00

Poster Area Hall A
 Chairperson: GIOVANNI B. PICCARDO

A0106; EGU2007-A-01082; GMPV12-1TH4P-0106
Ryabchikov, I.D.; Ntaflos, Th.; Kogarko, L.N.; Kurat, G.
 Highly reduced melts in mantle rocks from Cape Verde
 Archipelago – involvement of material from lower mantle?

A0107; EGU2007-A-01139; GMPV12-1TH4P-0107
Ashchepkov, I.V.; Pokhilenko, N.H.; Vladykin, N.V.;
 Rotman, A.Y.; Logvinova, A.M.; Afanasiev, V.P.; Kostrovit-
 sky, S.I.; Pokhilenko, L.N.; Malygina, E.V.; Kuligin, S.I.
 Signs of mantle diapirism beneath the Siberian craton and
 surrounding area

A0108; EGU2007-A-04966; GMPV12-1TH4P-0108
Piccardo, G.B.
 Palaeogeographic setting versus petrological features of
 mantle peridotites from the Ligurian Tethys, a Jurassic
 ultra-slow spreading ocean.

A0109; EGU2007-A-04972; GMPV12-1TH4P-0109
Marasco, M.; Piccardo, G.B.
 Ultramafic pseudo-tachylites in the Moncuni peridotite
 (Lanzo Massif, Western Alps): records of Jurassic earth-
 quakes in the lithosphere of the Ligurian Tethys.

A0110; EGU2007-A-05603; GMPV12-1TH4P-0110
Segata, M.; Fumagalli, P.
 Textural evolution in peridotite systems: a time-resolved
 experimental study on grain growth

A0111; EGU2007-A-05848; GMPV12-1TH4P-0111
Ivanov, A.V.; Demonterova, E.I.; Paleskii, S.V.; Niko-
 laeva, I.V.; Rasskazov, S.V.
 Platinum Group Elements and Re in Spinel Lherzolite
 Xenoliths of the Tuva-Mongolian Massif (East Sayan,
 Siberia, Russia) show no Evidence for Ancient Lithospheric
 Mantle

A0112; EGU2007-A-07073; GMPV12-1TH4P-0112
Nédli, Zs.; Princivalle, F.; Dobosi, G.; Embey-Isztin, A.
 Clinopyroxene crystal chemistry of texturally heterogeneous
 upper mantle xenolith series from the Carpathian-Pannonian
 Region (Hungary): what does crystal structure message
 about xenolith petrogenesis and mantle pressure conditions?

A0113; EGU2007-A-07687; GMPV12-1TH4P-0113
Borghini, G.; Fumagalli, P.; Rampone, E.
 Experimental and natural constraints on the spinel-
 plagioclase subsolidus transition in mantle peridotites.

A0114; EGU2007-A-10783; GMPV12-1TH4P-0114
Zanetti, A.; Piccardo, G.B.
 The evolution of focalised melt migration through the man-
 tle lithosphere: Geochemical evidence from dunite-hosted
 clinopyroxenes in Lanzo South and External Ligurides
 ophiolitic peridotites

Geodesy

G4/GD17 What constraints do earth rotation, shape, and gravity measurements place on the dynamical processes of the solid earth? (co-organized by GD) – Posters

Convener: Gross, R.
Co-Convener(s): Plag, H.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 17:30–19:00

Poster Area Halls X/Y
Chairperson: GROSS, R.

XY0372; EGU2007-A-05779; G4/GD17-1TH5P-0372

Han, Y.B.; Qiao, Q.Y.; Zhang, P.Y.

Chinese ancient observations of lunar eclipses and secular variation of the Earth rotation

XY0373; EGU2007-A-10663; G4/GD17-1TH5P-0373

Krien, Y.; **Fleitout, L.**

Kinetics of phase transformation and Love numbers

XY0374; EGU2007-A-09573; G4/GD17-1TH5P-0374

Mendes Cerveira, P.J.; Weber, R.; Schuh, H.

Geometric interpretation of the Earth rotation vector from the non-linearized skew-symmetric tensor

XY0375; EGU2007-A-02779; G4/GD17-1TH5P-0375

Kalarus, M.; Kosek, W.; Schuh, H.

Current Results of the Earth Orientation Parameters Prediction Comparison Campaign

XY0376; EGU2007-A-05746; G4/GD17-1TH5P-0376

Kalarus, M

Optimal multivariate autoregressive predictions of the Earth rotation based on atmospheric angular momentum data

XY0377; EGU2007-A-05753; G4/GD17-1TH5P-0377

Niedzielski, T.; Kosek, W.

The comparison of performances of several stochastic techniques in the process of forecasting length of day and UT1-UTC time series

XY0378; EGU2007-A-03641; G4/GD17-1TH5P-0378

SALSTEIN, D.; Nastula, J.; MacMillan, D.; Quinn, K.; Mendes Cerveira, P.

Excitations of Earth rotation parameters at high frequencies

XY0379; EGU2007-A-11727; G4/GD17-1TH5P-0379

Malkin, Z.; Miller, N.

An analysis of celestial pole offset observations in the free core nutation frequency band

XY0380; EGU2007-A-04082; G4/GD17-1TH5P-0380

Dill, R.; Rothacher, M.

Impact of the Earth's core on Earth's rotation

XY0381; EGU2007-A-07480; G4/GD17-1TH5P-0381

Rosat, S.; Ducarme, B.; Florsch, N.

Bayesian estimation of the FCN parameters from Superconducting Gravimeters data of the GGP network using a mean ocean tide model

XY0382; EGU2007-A-03682; G4/GD17-1TH5P-0382

Seoane, L.; Bizouard, C.; Gambis, D.

What brings GRACE gravimetric data in the interpretation of the Earth rotational changes?

XY0383; EGU2007-A-06210; G4/GD17-1TH5P-0383

Cannelli, V.; Melini, D.; Piersanti, A.

Signature of asthenospheric viscosity on long wavelength postseismic gravity perturbations after the 2004 Sumatra earthquake

XY0384; EGU2007-A-08925; G4/GD17-1TH5P-0384

Wziontek, H.; Falk, R.; Wilmes, H.; Wolf, P.

Improved combination of superconducting and absolute gravity measurements

XY0385; EGU2007-A-08994; G4/GD17-1TH5P-0385

Wziontek, H.; Ihde, J.; Wilmes, H.

A database for absolute gravity measurements at BKG - a basis for geophysical interpretation at global scale.

XY0386; EGU2007-A-11003; G4/GD17-1TH5P-0386

Ali, I.; Pagiatakis, S

A new Canadian gravity anomaly database consistent with global models derived from gravity space missions

XY0387; EGU2007-A-02224; G4/GD17-1TH5P-0387

Hatam, H.; Bayer, B.; Djamour, D.; Vanicek, V.; Le Moign, LM; Mohammad karim, MK; Abolghasem, A; Karpychev, K; Sadat, S; Rafiey, R

The new (tele cabin /land) national gravity calibration line for Iran

XY0388; EGU2007-A-08361; G4/GD17-1TH5P-0388

Barkin, Yu.V.

To explanation of gravity variations at Potsdam and Antarctic Syowa station

XY0389; EGU2007-A-10180; G4/GD17-1TH5P-0389

Barkin, Yu.V.

Geocenter oscillations with hour periods and observed variations of the natural processes

XY0390; EGU2007-A-09900; G4/GD17-1TH5P-0390

Gorshkov, V.

Near six-year oscillations of the length-of-day and mean sea level

XY0391; EGU2007-A-09808; G4/GD17-1TH5P-0391

Gorshkov, V.

About low-frequency amplitude modulation of Chandler wobble of the Earth polar motion

G5 Monitoring of the troposphere and ionosphere by space geodetic techniques

Convener: Boehm, J.

Co-Convener(s): Jakowski, N.

Lecture Room 6 (K)

Chairperson: BOEHM, J.

8:30–8:45; EGU2007-A-06372; G5-1TH10-001

Steigenberger, P.; Tesmer, V.; Thaller, D.; Krügel, M.; Rothacher, M.

Long-time series of reprocessed GPS and VLBI troposphere zenith delays (solicited)

8:45–9:00; EGU2007-A-10533; G5-1TH10-002

Nilsson, T.; Elgered, G.; Johansson, J.M.; Lidberg, M.

Investigation of long-term trends in water vapour using the Swedish GPS network

9:00–9:15; EGU2007-A-04957; G5-1TH10-003

Hulley, G.; **Pavlis, E. C.**

Refraction modeling in SLR by ray tracing through meteorological data

9:15–9:30; EGU2007-A-07630; G5-1TH10-004

Niell, A.; Leidner, M.

Using a Numerical Weather Model to convert WVR brightness temperatures to delay

9:30–9:45; EGU2007-A-07121; G5-1TH10-005

Bosser, P.; Bock, O.; Bouin, M.N.

Tropospheric wet delay retrieval from Raman lidar measurements and GPS during the VAPIC campaign

Mon

Tue

Wed

Thu

Fri

9:45–10:00; EGU2007-A-08562; G5-1TH10-006
Wickert, J.; GPS_RO_TEAM
 Global atmospheric sounding using GPS radio occultation: Recent results from CHAMP, GRACE and COSMIC/FORMOSAT-3 (solicited)

10:00 COFFEE BREAK

Chairperson: HERNANDEZ-PAJARES, M.

10:30–10:45; EGU2007-A-09276; G5-1TH20-001
 von Engeln, A.; Marquardt, C.; Luntama, J.-P.; **Wilson, J.**
 The GRAS instrument on MetOp: Overview

10:45–11:00; EGU2007-A-04389; G5-1TH20-002
Hernández-Pajares, M.; Juan, J.M.; Sanz, J.
 Medium Scale Travelling Ionospheric Disturbances: Detection, modelling and application to precise GNSS navigation (solicited)

11:00–11:15; EGU2007-A-09072; G5-1TH20-003
Schmidt, M.; Bilitza, D.; Shum, C.; Zeilhofer, C
 Regional multi-dimensional modeling of the ionospheric electron density from satellite data and IRI

11:15–11:30; EGU2007-A-01275; G5-1TH20-004
Hobiger, T.; Kondo, T.; Koyama, Y.
 Constrained simultaneous algebraic reconstruction technique (CSART) a new and simple algorithm for ionospheric tomography

11:30–11:45; EGU2007-A-09062; G5-1TH20-005
Hoque, M.M.; Jakowski, N.
 Ionospheric refraction on GPS signals received onboard LEO satellites

11:45–12:00; EGU2007-A-05845; G5-1TH20-006
Scharroo, R.; Smith, W.; Lillibridge, J.
 A new climatology for the total electron content of the ionosphere

12:00 END OF SESSION

G5 Monitoring of the troposphere and ionosphere by space geodetic techniques – Posters

Convener: Boehm, J.
 Co-Convener(s): Jakowski, N.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: HEINKELMANN, R.

XY0392; EGU2007-A-03221; G5-1TH5P-0392
 Troller, M.; Leuenberger, D.; Brockmann, E.; Geiger, A.; Kahle, H.-G.
 GPS-Tomography: Results and Analyses of the Operational Determination of Humidity Profiles over Switzerland

XY0393; EGU2007-A-09033; G5-1TH5P-0393
Lutz, S.; Troller, M.; Geiger, A.; Kahle, H.-G.
 Data processing and requirements for high-resolution GPS tomography

XY0394; EGU2007-A-06940; G5-1TH5P-0394
Bender, M.; Wickert, J.; Dick, G.; Rothacher, M.; Raabe, A.
 GPS water vapour tomography with the German GPS network

XY0395; EGU2007-A-07584; G5-1TH5P-0395
 Dick, G.; Song, S.L.; Gendt, G.; Wickert, J.; Ge, M.; Rothacher, M.
 Retrieval of water vapour slant delays from the German GPS network

XY0396; EGU2007-A-07335; G5-1TH5P-0396
Heise, S.; Gendt, G.; Dick, G.; Schmidt, T.; Wickert, J.; Rothacher, M.
 Integrated water vapour from IGS ground-based GPS observations: A global dataset

XY0397; EGU2007-A-07016; G5-1TH5P-0397
Bouin, M.N.; Nahmani, S.; Bock, O.; Doerflinger, E.; Masson, F.
 GPS measurements for precise tropospheric sounding: fitted processing strategy within the AMMA project.

XY0398; EGU2007-A-04002; G5-1TH5P-0398
Pacione, P.; Vespe, V
 Comparative studies for the assessment of the quality of NRT GPS neutral atmospheric parameters

XY0399; EGU2007-A-04195; G5-1TH5P-0399
de Haan, S.
 Real Time Water vapour derived from a dense GPS network and internet broadcasted raw GPS data (NTRIP)

XY0400; EGU2007-A-06977; G5-1TH5P-0400
Boehm, J.; Heinkelmann, R.; Schuh, H.
 Reassessment of hydrostatic zenith delays for radio space geodetic techniques determined from surface pressure values

XY0401; EGU2007-A-06230; G5-1TH5P-0401
Tervo, M.; Eresmaa, R.; Poutanen, M.; Järvinen, H.
 Using ground based slant delays in GPS solutions

XY0402; EGU2007-A-07640; G5-1TH5P-0402
Heinkelmann, R.; Boehm, J.; Schuh, H.
 Comparison of troposphere delays from VLBI determined by different estimation methods

XY0403; EGU2007-A-08062; G5-1TH5P-0403
Teke, K.; Boehm, J.; Schuh, H.
 Baseline length repeatability and vertical point position accuracy of VLBI CONT05 sessions for different mapping functions and cutoff angles

XY0404; EGU2007-A-07876; G5-1TH5P-0404
Beyerle, G.; Michalak, G.; Schmidt, T.; Wickert, J.; Rothacher, M.
 Atmospheric remote sensing using spaceborne GNSS radio occultation: the feasibility of on-board data pre-processing

XY0405; EGU2007-A-08402; G5-1TH5P-0405
Michalak, G.; Wickert, J.; Koenig, R.; Rothacher, M.
 Precise orbit determination of COSMIC/Formosat-3 satellites for radio occultations

XY0406; EGU2007-A-08740; G5-1TH5P-0406
Michalak, G.; Wickert, J.; Koenig, R.; Rothacher, M.
 Precise satellite orbit determination for GPS radio occultation in near-real time (NRT)

XY0407; EGU2007-A-09527; G5-1TH5P-0407
Marquardt, C.; von Engeln, A.; Wilson, J.; Dyer, R.
 Raw sampling data from GRAS

XY0408; EGU2007-A-07823; G5-1TH5P-0408
Viehweg, C.; Wickert, J.; Heise, S.; Jacobi, C.; Beyerle, G.; Schmidt, T.; Rothacher, M.
 Global distribution of plasma irregularities in the lower ionosphere derived from GPS radio occultation data

XY0409; EGU2007-A-05454; G5-1TH5P-0409
Luntama, J-P.
 First results from space weather monitoring with the GRAS instrument

XY0410; EGU2007-A-06956; G5-1TH5P-0410
Epifani, ME; Tassa, AT; Vingione, GV; Buongiorno, AB; Monjoux, EM
 Total Electron Content (TEC) estimations from very low orbit satellite GOCE

XY0411; EGU2007-A-04921; G5-1TH5P-0411
Krankowski, A.; Rothkaehl, H.; Stanislawska, I.; Blecki, J.; Parrot, M.; Berthelier, J-J; Lebreton, J-P
 Simultaneously detecting of signature of main ionospheric trough by GNSS and in situ waves measurements during strong geomagnetic disturbances

XY0412; EGU2007-A-05136; G5-1TH5P-0412
 Yuan, Yunbi; Wen, Debao; **Ou, Jikun**
 A hybrid reconstruction algorithm for three-dimensional ionospheric tomography

XY0413; EGU2007-A-05139; G5-1TH5P-0413
 Wen, D. B.; Yuan, Y. B.; Ou, J. K.; **Huo, X. L.**
 Ionospheric response to the geomagnetic storm on 21 August 2003 storm over China using ionospheric tomography

XY0414; EGU2007-A-05318; G5-1TH5P-0414
Choliy, V
 Correlation analysis of raw GNSS observations during total solar eclipse 29 Mar 2006

XY0872; EGU2007-A-11730; G5-1TH5P-0872
 Malkin, Z.
 Investigation of long-term behavior of the zenith path delay obtained from VLBI observations

G8/NH11.02 Advances in GPS and InSAR techniques for geodynamic modelling and analysis of natural hazard (co-organized by G) (co-listed in GD)

Convener: Stramondo, S.
 Co-Convener(s): Lanari, R., Lundgren, P., Casu, F., Meghraoui, M.
 Lecture Room 6 (K)
 Chairperson: LANARI, R.

13:30–13:45; EGU2007-A-03917; G8/NH11.02-1TH3O-001
Wegmuller, U.; Strozzi, T.; Raetz, H.
 Cross-validation of Persistent Scatterer Interferometry Results over Lumnez Landslide

13:45–14:00; EGU2007-A-02536; G8/NH11.02-1TH3O-002
Novali, F.; Ferretti, A.; Prati, C.; Savio, G.; Rocca, F.
 Synergy of PSInSAR and GPS measurements

14:00–14:15; EGU2007-A-04714; G8/NH11.02-1TH3O-003
Lundgren, P.; Liu, Z.; Fielding, E.; Lohman, R.; Gurrola, E.
 InSAR time series analysis for southern California: Constraints on transient deformation and fault mechanics

14:15–14:30; EGU2007-A-04372; G8/NH11.02-1TH3O-004
Casu, F.; Manzo, M.; Pepe, A.; Gourmelen, N.; Amelung, F.; Lanari, R.
 Surface deformation analysis of very extended areas by applying the SBAS-DInSAR technique

14:30–14:45; EGU2007-A-02288; G8/NH11.02-1TH3O-005
Ferretti, A.; Passera, E.; Novali, F.; Prati, C.; Rocca, F.
 Impact of atmospheric effects on PSInSAR results

14:45–15:00; EGU2007-A-04730; G8/NH11.02-1TH3O-006
Peltzer, G.; Doubre, C.
 Phase propagation delay and ground movement signal in InSAR time series of Afar

15:00 COFFEE BREAK

Chairperson: LUNDGREN, P.

15:30–15:45; EGU2007-A-05313; G8/NH11.02-1TH4O-001
Baer, G.; Abelson, M.; Finzi, Y.; Funning, G.; Nof, R.; Shamir, G.; Wright, T.
 Application of InSAR measurements and mechanical modeling for natural hazard assessment and mitigation along the Dead Sea Transform

15:45–16:00; EGU2007-A-07448; G8/NH11.02-1TH4O-002
Sudhaus, H.; Jonsson, S.
 Improved Source Imaging of the Kleifarvatn Earthquake, Iceland, through a combined Use of ascending and descending InSAR Data

16:00–16:15; EGU2007-A-09689; G8/NH11.02-1TH4O-003
BELABBES, S.; WICKS, C.; CAKIR, Z.; **MEGHRAOUI, M**
 InSAR analysis of the 21 May 2003 Zemmouri earthquake (Mw 6.8, Northern Algeria): Rupture constraint of an offshore hidden fault

16:15–16:30; EGU2007-A-04866; G8/NH11.02-1TH4O-004
 Nitti, D.; Bovenga, F.; **Ganas, A.;** Nutricato, R.; Refice, A.; Chiaradia, M.
 Refined fault model for the Mw=6.3, June 15, 1995 Aigion EQ (Greece) derived from InSAR data and implications for extensional tectonics of the western Corinth rift

16:30–16:45; EGU2007-A-07398; G8/NH11.02-1TH4O-005
Atzori, S.; Manunta, M.; Fornaro, G.; Salvi, S.; Ganas, A.
 Toward the integration of a dislocation model in the DInSAR time series analysis

16:45–17:00; EGU2007-A-03905; G8/NH11.02-1TH4O-006
Trasatti, E.; Giunchi, C.; Piana Agostinetti, N.; Bonafede, M.
 Inversions by 3D finite element solutions: deformation of Mount Etna from 1993 to 1997

17:00 COFFEE BREAK

Chairperson: MEGHRAOUI, M.

17:30–17:45; EGU2007-A-03724; G8/NH11.02-1TH5O-001
Tizzani, P.; SBAS_TEAM
 The SBAS-DInSAR approach for surface deformation analysis of active volcanic areas

17:45–18:00; EGU2007-A-04341; G8/NH11.02-1TH5O-002
Mantenuto, S.; Bonci, L.; Calcaterra, S.; D'Agostino, N.; Giuliani, R.; Mattone, M.; Merli, K.
 Analysis of active extension in the Central Apennines (Abruzzo, Italy) using GPS measurements

18:00–18:15; EGU2007-A-09594; G8/NH11.02-1TH5O-003
Zerbini, S.; Matonti, F.; Richter, B.; Rocca, F.; van Dam, T.; De Simone, E.
 Monitoring surface deformation by a combination of GPS, InSAR and terrestrial gravity measurements

18:15–18:30; EGU2007-A-03667; G8/NH11.02-1TH5O-004
 Manunta, M.; Marsella, M.; **Zeni, G.;** Sciotti, M.; Atzori, S.; Bonano, M.; Lanari, R.
 Surface deformation of the city of Rome (Italy), investigated with the SBAS-DInSAR technique

18:30–18:45; EGU2007-A-11026; G8/NH11.02-1TH5O-005
Stramondo, S.; Marra, F.; Bozzano, F.; Wegmuller, U.; Cinti, F.; Moro, M.; Saroli, M.
 Subsidence affecting some areas within Rome city revealed by ground measurements and multitemporal InSAR technique

18:45–19:00; EGU2007-A-09314; G8/NH11.02-1TH5O-006
 Capes, R.; Casagli, N.; **Farina, P.;** Ferretti, A.; Wegmuller, U.
 TerraFirma: a ground motion information service for Europe based on space-borne InSAR

19:00 END OF SESSION

G8/NH11.02 Advances in GPS and InSAR techniques for geodynamic modelling and analysis of natural hazard (co-organized by G) (co-listed in GD) – Posters

Convener: Stramondo, S.
 Co-Convener(s): Lanari, R., Lundgren, P., Casu, F., Meghraoui, M.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 10:30–12:00
 Poster Area Halls X/Y
 Chairperson: CASU, F.

XY0415; EGU2007-A-02333; G8/NH11.02-1TH2P-0415
Salvi, S.; The VELISAR Team
 The VELISAR initiative for the measurement of ground velocity in Italian seismogenic areas

XY0416; EGU2007-A-03358; G8/NH11.02-1TH2P-0416
 Rizzo, V.R.; Iodice, A.I.; Calendino, A.C.; Caruso, P.C.; Curcio, G.C.; Miceli, M.M.
 Significance of the short base line (Sb) and permanent scatterers (Ps) DiffSAR techniques in the study of the slope instabilities.

XY0417; EGU2007-A-03389; G8/NH11.02-1TH2P-0417
 Rizzo, V.; Iodice, A.; Calendino, A.; Caruso, P.; Curcio, G.; Miceli, M.
 DiffSAR methodology for the evaluation of the susceptibility landslides'.

XY0418; EGU2007-A-04981; G8/NH11.02-1TH2P-0418
Berardino, P.; THE PREVIEW TEAM
 The Eurorisk-Preview project: earthquake prone areas monitored by means of ENVISAT and ERS data

XY0419; EGU2007-A-05132; G8/NH11.02-1TH2P-0419
HU, J.-C.; Huang, M.-H.; Hsieh, C.-S.
 Coseismic and postseismic deformation of the Chi-Chi earthquake revealed by SAR interferometry and geodetic observations

XY0420; EGU2007-A-05203; G8/NH11.02-1TH2P-0420
Fattahi, H.; Dehghani, M.; Valadan Zouj, M. J.; Mobasheri, M. R.
 Interferogram noise reduction based on Windowed Fourier Transform

XY0421; EGU2007-A-05366; G8/NH11.02-1TH2P-0421
Schenk, A.; Motagh, M.; Djamour, Y.; Hoffmann, J.; Arabi, S.; Nankali, H.
 Land subsidence in the Tehran region as a consequence of steady reservoir discharge mapped by InSAR, GPS and leveling

XY0422; EGU2007-A-06068; G8/NH11.02-1TH2P-0422
Tagliaventi, S.; Trasatti, E.; Piana Agostinetti, N.; Lanucara, P.; Giunchi, C.
 DOIT: a graphic tool for the inversion of deformation data

XY0423; EGU2007-A-07651; G8/NH11.02-1TH2P-0423
Atzori, S.; Hunstad, I.; Tolomei, C.; Salvi, S.; Ferretti, A.; Cespa, S.
 Interseismic strain accumulation in the Gargano Promontory, Central Italy

XY0424; EGU2007-A-07764; G8/NH11.02-1TH2P-0424
 Minati, F.; Righini, G.; Falorni, G.; Lombardi, L.; Malvarosa, F.; **Casagli, N.;** Costantini, M.
 Differential SAR interferometric analysis of Alpine landslide in the framework of Eurorisk-Preview project

XY0425; EGU2007-A-08893; G8/NH11.02-1TH2P-0425
Catita, C.; Catalão, J.; Miranda, J. M.; Victor, L.M.
 Kinematics of Faial-Pico Islands (Azores Archipelago) deduced from repeated GPS surveys.

XY0426; EGU2007-A-09106; G8/NH11.02-1TH2P-0426
Navarro, A.; Catalão, J.; Miranda, J. M.
 Estimates of Terceira Island (Azores) crustal deformation rates with GPS observations from 1999 to 2006

XY0427; EGU2007-A-09827; G8/NH11.02-1TH2P-0427
CF-SBAS TEAM, THE; THE CF-SBAS TEAM
 Recent deformation at Campi Flegrei Caldera (Italy) detected by DInSAR and levelling techniques

XY0428; EGU2007-A-10814; G8/NH11.02-1TH2P-0428
Fornaro, G.; Paucullo, A.; Serafino, F.
 Enhanced Spatial Differences (ESD): a new technique for DInSAR monitoring of deformation over wide areas

G10 Geodetic observations for the International Polar Year (co-listed in CR) – Posters

Convener: Dietrich, R.
 Co-Convener(s): Van Dam, T., Capra, A.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0429; EGU2007-A-01235; G10-1TH5P-0429
 Fernández-Ros, A.; Berrocoso, M.; **Ramírez, M. E.**
 Deformation models and volcanic source location for Deception Island Volcano (South Shetland Islands, Antarctica)

XY0430; EGU2007-A-01936; G10-1TH5P-0430
 Berrocoso, M.; Ramírez, M. E.; Fernández-Ros, A.; Pérez-Peña, A.; Sánchez-Alzola, A.
 Tectonic deformation in South Shetland Islands, Bransfield Sea and Antarctic Peninsula environment from GPS surveys.

XY0431; EGU2007-A-02033; G10-1TH5P-0431
 Berrocoso, M.; Enríquez-Salamanca, J.M.; Jiménez, Y.; Jijena, B.
 Geodesic and geophysical models for Deception Island (Antarctica)

XY0432; EGU2007-A-03549; G10-1TH5P-0432
Vey, S.; Dietrich, R.
 The importance of GPS-derived precipitable water for the validation of numerical weather prediction models in polar regions

XY0433; EGU2007-A-04017; G10-1TH5P-0433
DIETRICH, R.; WILSON, T.
 The Antarctic GPS network: Contribution to the POLENET project

XY0434; EGU2007-A-04565; G10-1TH5P-0434
Wendt, A.; Casassa, G.; Rivera, A.; Araya, L.; Wendt, J.
 Study of Ice Mass Balance of Horseshoe Valley, Patriot Hills, Antarctica

XY0435; EGU2007-A-05698; G10-1TH5P-0435
Buluchev, A.; Grushinsky, A.
 The detailed gravitational field model for Antarctica

XY0436; EGU2007-A-06253; G10-1TH5P-0436
Sarti, P.; Negusini, M.; Lanconelli, C.; Lupi, A.; Tomasi, C.
 GPS derived Integrated Water Vapour content and its relationship with 6 years of surface radiation balance at MZS (Terra Nova Bay)

XY0437; EGU2007-A-08978; G10-1TH5P-0437
Capra, A; Geodesy Team - PNRA
 Deformation analysis of northern Victoria Land with VL-NDEF GPS network

XY0438; EGU2007-A-10045; G10-1TH5P-0438
Mäkinen, J.; Koivula, H.; Ahola, J.; Bilker-Koivula, M.; Poutanen, M.
 Repeated absolute gravity measurements and continuous GPS observations in Dronning Maud Land, Antarctica

Geodynamics

GD01 Geodynamics and Geochemistry of the Early Earth (co-listed in TS & GMPV) – Posters

Convener: van Hunen, J.
 Co-Convener(s): Samuel, H., Parman, S.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 08:30–10:00
 Poster Area Hall A
 Chairperson: N.N.

A0115; EGU2007-A-00105; GD01-1TH1P-0115
Markov, A.
 Geodynamic evolution of North-Caspian Region with the purpose of prognosis of a big Gas and Oil deposits in shelf - to - basin Caspian sedimentary Devonian Continental Margins.

A0116; EGU2007-A-00106; GD01-1TH1P-0116
Markov, A.
 Geodynamic of South-Kurilian Arc System and subduction of Pacific Plate.

A0117; EGU2007-A-11237; GD01-1TH1P-0117
Sitdikova, L.; Izotov, V.
 Deep geo-observatories as a tool for monitoring nonequilibrium geological and geophysical processes

A0118; EGU2007-A-01263; GD01-1TH1P-0118
Sharkov, E.; Bogina, M.
 Major geological catastrophe in the history of the Earth: evidence from evolution of tectonomagmatic processes in the Paleoproterozoic

A0119; EGU2007-A-01180; GD01-1TH1P-0119
Varlamova, A.; Sadovnikov, A.; Novikov, D.
 Layered Proterozoic PGE-bearing intrusions on the N-E Baltic Shield: new U-Pb on zircon and He4/He3 for accessory minerals data

A0120; EGU2007-A-01670; GD01-1TH1P-0120
Abdeen, M. M.; Abdelghaffar, A. A.
 Post-accretionary structures in the Pan-African central

A0121; EGU2007-A-00190; GD01-1TH1P-0121
Sarkarinejad, K.
 Kinenimatics of the tectonic wedging of the oblique Zagros accretionary prism and lateral exhumation of the HP-LT metamorphic rocks, southwestern Iran.

A0122; EGU2007-A-01584; GD01-1TH1P-0122
Galimov, E; Bibikova, E
 Geodynamic and geochronological Approach to the Formation and Evolution of the Early Earth's Crust

A0123; EGU2007-A-10592; GD01-1TH1P-0123
Riedel, M.R.
 Nanoscale properties of rocks and subduction zone rheology:

A0124; EGU2007-A-07603; GD01-1TH1P-0124
Hansen, U.; Schmalzl, J.; Stemmer, K.
 Dynamical evolution of layered structures in the early Earth

A0125; EGU2007-A-04911; GD01-1TH1P-0125
Khachay, Y
 Research of the structure and thermal Earth's evolution at the stage of it's accumulation in a frame of 2-d model

A0126; EGU2007-A-04747; GD01-1TH1P-0126
Chardon, D.; Jayananda, M.; Peucat, J.J.; Chetty, T.R.K
 Forced flow and growth of weak Precambrian lithosphere: 3D crustal-scale perspective from a tilted craton

A0127; EGU2007-A-06647; GD01-1TH1P-0127
Flament, N.; Coltice, N.; Rey, P.
 Emerged land surface in the Archean: constraints on continental growth and mantle thermal history

A0128; EGU2007-A-07801; GD01-1TH1P-0128
Enjoly, R; Monié, P; Bruguier, O; Delor, C; Barbey, P; Bosch, D
 The Transamazonian juvenile crust of French Guiana revisited: New LA-ICP-MS U-Pb and Ar/Ar geochronological data.

A0129; EGU2007-A-07061; GD01-1TH1P-0129
Liu, S.; Fraser, D. G.
 The effect of temperature on the adsorption of biomolecules on halloysite clay

Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 10:30–12:00

GD Poster Area
 Chairperson: N.N.

GD05 The Origins of Melting Anomalies – Posters

Convener: Foulger, G.
 Co-Convener(s): Sobolev, A.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 13:30–15:00
 Poster Area Hall A
 Chairperson: N.N.

A0130; EGU2007-A-04883; GD05-1TH3P-0130
Geoffroy, L.; Bergerat, F.; Angelier, J.
 Regional stresses before, during and following Large Igneous Province magmatism

A0131; EGU2007-A-00880; GD05-1TH3P-0131
Mikhail, S; Manning, CJ; Thirlwall, MF; Lowry, D
 Age and petrogenesis of the EM I source beneath Öraefajökull, SE Iceland: Enriched endmember(s) of the Iceland mantle plume? or a crustal source?

A0132; EGU2007-A-04146; GD05-1TH3P-0132
Vogt, P.R.; Jung, W.Y.; Williamson, M.C.; Blasco, S.
 Geology and Geophysics of the Bermuda Volcanic Edifice and Bermuda Rise: Synthesis and Current Research (solicited)

Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 15:30–17:00

Poster Area Hall A
 Chairperson: N.N.

A0133; EGU2007-A-10786; GD05-1TH4P-0133
Viereck-Goette, L.; Schöner, R.; Abratis, M.; Elsner, M.; Bomfleur, B.; Schneider, J.; Gaupp, R.; Kerp, H.
 Possible Proof for genetic Link between the mafic Ferrar LIP and the silicic Antarctic Peninsula Volcanic Group identified in the Transantarctic Mountains

A0134; EGU2007-A-01427; GD05-1TH4P-0134
Chuvashova, I.; Rasskazov, S.; Yasnygina, T.
 Alkaline basaltic volcanism in Central Mongolia and North-east China for the past 15 Ka: decompressional and delayed fluid melting of the mantle

A0135; EGU2007-A-05141; GD05-1TH4P-0135
 Perepelov, A.B.; **Ivanov, A.V.;** Puzankov, M.Yu.; Dril, S.I.; Layer, P.W.; Paholchenko, Yu.A.; Tatarnikov, S.A.; Sandimirov, I.V.; Sandimirova, G.P.; Ilina, N.N.
 Origin of WPB -Type Magmas in Rear Volcanic Belt of Kamchatka as a Result of Melting of the Kula Paleoslab

A0136; EGU2007-A-05786; GD05-1TH4P-0136
Demonterova, E.I.; Ivanov, A.V.
 Trace Element and Sr-Nd Isotope Inference on Source of the Late Cenozoic Alkaline Basalts in the Western Khubsugul Area

A0137; EGU2007-A-05468; GD05-1TH4P-0137
Sharma, K
 K-T magmatism of northwestern Indian shield: A result of fragmenting continent

A0138; EGU2007-A-06353; GD05-1TH4P-0138
Dymant, J.; IFCPAR 1911-1 & Magofond 2 & Gimnaut Sci. Teams
 The Deccan-Reunion hotspot history: hotspot-ridge interaction for the last 60 Ma

A0139; EGU2007-A-05598; GD05-1TH4P-0139
 Hansen, U.
 Plumes in a convecting mantle

A0140; EGU2007-A-06458; GD05-1TH4P-0140
Ballmer, M. D.; van Hunen, J.; Tackley, P. J.
 Intraplate volcanism due to small-scale convection - a 3D numerical study

A0141; EGU2007-A-07960; GD05-1TH4P-0141
O'Connor, J.M.; Stoffers, P.; Wijbrans, J.R.; Worthington, T.J.; Jokat, W.
 Testing the volcanic record for evidence of broad hotspot melting anomalies (solicited)

A0142; EGU2007-A-03734; GD05-1TH4P-0142
Cuffaro, M.; Doglioni, C.
 Global kinematics in the deep vs shallow hotspot reference frames

GD07 Dynamics and Thermal Structure of Subduction Zones – Posters

Convener: Fernandez, M.
 Co-Convener(s): Govers, R.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 08:30–10:00
 Poster Area Hall A
 Chairperson: N.N.

A0143; EGU2007-A-02599; GD07-1TH1P-0143
 Pasquale, V.; **Chiozzi, P.;** Verdoya, M.
 Dynamics of the Tyrrhenian subduction zone

A0144; EGU2007-A-05979; GD07-1TH1P-0144
Graindorge, D.; Klingelhoefer, F.; Gutscher, M.-G.; Sibuet, J.-C.; McNeill, L.; Henstock, T.; Dean, S.; Tappin, D.; Dessa, J.-X.; Singh, S.
 Lower plate control of upper plate deformation at the toe of the NW Sumatra convergent margin from swath bathymetry

A0145; EGU2007-A-06263; GD07-1TH1P-0145
Klingelhoefer, F.; Dessa, J.; Permana, H.; Graindorge, D.; Dean, S.; White, N.; Carton, H.; Singh, S.; Chauhan, A.; SAGER-OBS TEAM
 First results from the SAGER-OBS deep seismic cruise (July/August 2006) offshore Sumatra

A0146; EGU2007-A-07446; GD07-1TH1P-0146
Wittwer, A.; Kopp, H.; Wagner, D.; Flueh, E.; Rabbel, W.
 Wide-angle seismic investigation of the central Java subduction zone

A0147; EGU2007-A-08694; GD07-1TH1P-0147
Emmerson, B
 Thermal structure and seismicity associated with subhorizontal subduction beneath Peru and central Chile

A0148; EGU2007-A-09031; GD07-1TH1P-0148
Granja, J. L.; Carbó, A.; Muñoz-Martín, A.; ten Brink, U.; Córdoba, D.; Martín Dávila, J.
 Active tectonics in Los Muertos Trough area (North-East Caribbean plate): From reprocessed seismic reflection profiles.

A0149; EGU2007-A-03194; GD07-1TH1P-0149
Kuo, B.; Chou, H.
 Strain rate, viscosity, and folding of the subducting slab of the Philippine Sea plate beneath the Ryukyu trench near Taiwan

A0150; EGU2007-A-04169; GD07-1TH1P-0150
Husson, L.; Faccenna, C.; Conrad, C.P.
 Westward drift of the Pacific plates, trenches, and upper mantle

A0151; EGU2007-A-09329; GD07-1TH1P-0151
Arrial, P.-A.; Grasset, O.; Mocquet, A.; Guivel, C.; Humler, E.
 Numerical tests on the relationship between crustal thickness and partial melting in subduction zones

A0152; EGU2007-A-04283; GD07-1TH1P-0152
Funiciello, F.; Heuret, A.; Faccenna, C.; Lallemand, S.; Di Giuseppe, E.
 How does mantle viscosity influence the subduction process. Insights from laboratory models

A0153; EGU2007-A-08796; GD07-1TH1P-0153
Bousquet, R.; Arcay, D.; De Capitani, C.
 Do metamorphic reactions influence the subducting dynamic?

A0154; EGU2007-A-08436; GD07-1TH1P-0154
Zlotnik, S.; Fernández, M.; Díez, P.; Vergés, J.
 A numerical study of subduction parameters

A0155; EGU2007-A-04244; GD07-1TH1P-0155
Faccenna, C.; Heuret, A.; Funiciello, F.; Lallemand, S.; Becker, T.W.
 Predicting trench and plate motion

A0156; EGU2007-A-04318; GD07-1TH1P-0156
Heuret, A.; Funiciello, F.; Faccenna, C.; Lallemand, S.
 Plate kinematics, slab shape and back-arc stress: a comparison between laboratory models and current subduction zones

A0157; EGU2007-A-03388; GD07-1TH1P-0157
Di Giuseppe, E.; van Hunen, J.; Funiciello, F.; Faccenna, C.; Giardini, D.
 Subduction zone dynamics: 3D numerical models and energy balance

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 10:30–12:00

GD Poster Area
Chairperson: N.N.

GD09 Ice-Mass Fluctuations and the Dynamical Responses of the Solid Earth (co-organized by G) – Posters

Convener: Poutanen, M.

Co-Convener(s): Gregersen, S.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 13:30–15:00

Poster Area Hall A
Chairperson: N.N.

A0158; EGU2007-A-09519; GD09-1TH3P-0158

Whitehouse, P.; Latychev, K.; **Milne, G.A.**; Mitrovica, J.X.; Kendall, R.; Lidberg, M.; Johansson, J.; Scherneck, H.-G.

The application of 3-D Earth models to Fennoscandian glacial isostatic adjustment

A0159; EGU2007-A-08954; GD09-1TH3P-0159

MÄ??kinen, J.; Kaftan, V.I.; Demiyarov, G.V.; Kuznetsov, Yu.G.; Zabnev, V.I.; Lehmoskoski, P.; Poutanen, M.; Takalo, M.

Postglacial rebound in eastern Fennoscandia: new results from repeated Russian and Finnish levellings

A0160; EGU2007-A-03922; GD09-1TH3P-0160

Kukkonen, I.T.; Kinnunen, K.A.; Peltonen, P.
Upper mantle temperatures and composition in the Fennoscandian Shield: implications for rheology

A0161; EGU2007-A-03629; GD09-1TH3P-0161

Gregersen, S.

Uplift/subsidence in time scales 10s, 100s, 1000s of years in Denmark

A0162; EGU2007-A-04107; GD09-1TH3P-0162

Kroon, I.C.; Rijdsdijk, K.

River Terraces as a Proxy for Glacio-isostasy?

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 15:30–17:00

GD Poster Area

Chairperson: N.N.

GD18/G2 Ice-Mass Fluctuations and the Dynamical Responses of the Solid Earth (co-organized by G) – Posters

Convener: Vermeersen, B.

Co-Convener(s): Kaufmann, G.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 13:30–15:00

Poster Area Hall A

Chairperson: N.N.

A0163; EGU2007-A-03276; GD18/G2-1TH3P-0163

Martinec, Z.; Hagedoorn, J.

Refined prediction of GIA-induced variations in the Earth's rotation

A0164; EGU2007-A-03694; GD18/G2-1TH3P-0164

Barletta, VR.; Sabadini, R.; Bordoni, A.

Isolating the PGR signal in the GRACE data: impact on mass balance estimates in Antarctica and Greenland.

A0165; EGU2007-A-04258; GD18/G2-1TH3P-0165

Tanaka, Y.; Okuno, J.; Okubo, S.

A method to consider compressibility in a spherically symmetric, self-gravitating viscoelastic earth model

A0166; EGU2007-A-06027; GD18/G2-1TH3P-0166

Klemann, V.; Wolf, D.

A global data base for late-glacial and Holocene sea-level indicators

A0167; EGU2007-A-06708; GD18/G2-1TH3P-0167

Khan, S. A.; Wahr, J.; Stearns, L.; van Dam, T.; Larson, K. M.; Hamilton, G.; Francis, O.

Thinning of the major outlet glaciers in southeast Greenland

A0168; EGU2007-A-08181; GD18/G2-1TH3P-0168

Van Hove, J.; Vermeersen, L.L.A.; Wouters, B.; Schrama, E.J.O.

Improving the constraint on present-day ice mass changes with tide gauge data

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 15:30–17:00

GD Poster Area

Chairperson: N.N.

GD19 Potential Fields in Geodynamics and Geostatics

Convener: Strykowski, G.

Co-Convener(s): Kaban, M., A. Ardan, A.

Lecture Room 23

Chairperson: N.N.

13:30–13:45; EGU2007-A-03727; GD19-1TH3O-001

Kaban, M.K.; Tesauro, M.

A new gravity model of the crust and upper mantle of Europe based on joint inversion of the gravity and seismic data (solicited)

13:45–14:00; EGU2007-A-00822; GD19-1TH3O-002

Romanyuk, T.; Mooney, W.

Seismic P-wave velocity – density relation in the upper mantle of the western USA

14:00–14:15; EGU2007-A-09537; GD19-1TH3O-003

Kaban, M.K.; Rogozhina, I.

Global modelling of the dynamic geoid: an integrative approach

14:15–14:30; EGU2007-A-02222; GD19-1TH3O-004

Prutkin, I.

Potential field data inversion in 3D: from Hellenic subduction zone to core - mantle boundary

14:30–14:45; EGU2007-A-08089; GD19-1TH3O-005

Somieski, A.; Bürki, B.; Kahle, H.-G.

Analysis of deflections of the vertical observed in the North Aegean Sea and geophysical interpretation

14:45–15:00; EGU2007-A-08948; GD19-1TH3O-006

Holota, P.

Combinations of terrestrial and satellite gravity field data treated as an optimized solution of boundary problems in a close neighborhood of the Earth

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-07514; GD19-1TH4O-001

Grafarend, E. W.; Finn, G.; Ardan, A. A.

Ellipsoidal Vertical Deflections based on the Somigliana-Pizzetti Ellipsoidal Reference Gravity Field (solicited)

15:45–16:00; EGU2007-A-04877; GD19-1TH4O-002

Novak, P.; Tsoulis, D.; Kadlec, M.; Vergos, GS

Numerical evaluation of terrain induced gravitational potentials and their derivatives by combination of analytical formulae and discrete integration

16:00–16:15; EGU2007-A-05291; GD19-1TH4O-003
Ardalan, A. A.; Safari, A.; Hashemi, H.
 On the optimum way to estimate geoid's gravity potential value at the era of altimetry satellites

16:15–16:30; EGU2007-A-07125; GD19-1TH4O-004
Safari, A.; Allahtavakoli, Y.
 A Comparison of direct and indirect regularization methods for downward continuation problem of geoid computations without applying Stokes formula

16:30–16:45; EGU2007-A-07165; GD19-1TH4O-005
Ardalan, A. A.; Safari, A.; Jomegi, A.
 The effect of digital terrain model resolution in geoid computations without applying Stokes formula

16:45–17:00; EGU2007-A-08882; GD19-1TH4O-006
Ardalan, A. A.; Safari, A.; Hashemi, H.; Jalilnejad, M.
 How to build a consistent reference system for geodesy and geodynamics

17:00 END OF SESSION

GD19 Potential Fields in Geodynamics and Geostatics – Posters

Convener: Strykowski, G.
 Co-Convener(s): Kaban, M., A. Ardalan, A.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 08:30–10:00
 Poster Area Hall A
 Chairperson: N.N.

A0169; EGU2007-A-00157; GD19-1TH1P-0169
Boukerbout, H.; Gibert, D.; Abtout, A.
 Identification and localization of gravimetric and magnetic anomalies causative bodies in the NW of Mediterranean Sea in Algeria using the continuous wavelet transform in the case 3-D.

A0170; EGU2007-A-00184; GD19-1TH1P-0170
Boukerbout, H.; Gibert, D.; Abtout, A.
 Identification and localization of gravimetric and magnetic anomalies causative bodies in the NW of Mediterranean Sea in Algeria using the continuous wavelet transform in the case 3-D

A0171; EGU2007-A-01201; GD19-1TH1P-0171
Rabeh, T.; Miranda, M.; Bocin, A.; Carvalho, J.
 Approach to determine the geometry of the basement rocks at Sahl El Qaa area, southern Sinai Peninsula, Egypt

A0172; EGU2007-A-02163; GD19-1TH1P-0172
ETIZ, A.; DOLMAZ, M.N.; HISARLI, Z.M.; US-TAÖMER, T.; ORBAY, N.
 Magnetic sources in sedimentation of Thrace Basin and its around (NW Turkey) and their tectonic implications

A0173; EGU2007-A-03458; GD19-1TH1P-0173
Panet, I.; Kuroishi, Y.; Holschneider, M.; Jamet, O.
 Regional gravity modelling over Japan using wavelets

A0174; EGU2007-A-03739; GD19-1TH1P-0174
Swieczak, M.; Kozlovskaya, E.; Majdanski, M.; Grad, M.; Guterch, A.
 3D density model of the crust and upper mantle for the territory of Poland derived by forward modeling and inversion of gravimetric geoid.

A0175; EGU2007-A-03755; GD19-1TH1P-0175
Majdanski, M.; Kozlovskaya, E.; **Swieczak, M.;** Grad, M.; Guterch, A.
 Optimized calculation of the crustal geoid

A0176; EGU2007-A-03786; GD19-1TH1P-0176
Prutkin, I.; Casten, U.
 Gravity data inversion without modelling for 3D topography of a contact surface

A0177; EGU2007-A-07080; GD19-1TH1P-0177
Ardalan, A. A.; Safari, A.; Jomegi, A.
 Comparison of recent geopotential models for synthesizing modulus of gravity vector

A0178; EGU2007-A-07102; GD19-1TH1P-0178
Ardalan, A. A.; Safari, A.; Jomegi, A.
 Modeling of modulus of gravity vector in the oceans based on satellite altimetry data

A0179; EGU2007-A-07226; GD19-1TH1P-0179
Safari, A.; Ardalan, A. A.; Jomegi, A.
 The effect of anomalous density of crust in geoid computations without applying Stokes formula

A0180; EGU2007-A-07274; GD19-1TH1P-0180
Safari, A.; Allahtavakoli, Y.
 On the solvability of downward continuation problem in geoid computations without applying Stokes formula

A0181; EGU2007-A-09315; GD19-1TH1P-0181
Ardalan, A. A.; Safari, A.; Jomegi, A.
 Geoid determination based on boundary values of the type modulus of gravity vector, satellite altimetry and GPS/leveling data

A0182; EGU2007-A-09364; GD19-1TH1P-0182
Safari, A.; Ardalan, A. A.; Jomegi, A.
 Variance components estimation in geoid computations based on heterogeneous boundary values

A0183; EGU2007-A-11031; GD19-1TH1P-0183
Safari, A.; Allahtavakoli, Y.
 Statistical Downward Continuation in Gravity Field Modelling

Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 10:30–12:00

GD Poster Area
 Chairperson: N.N.

GD20 Cretaceous-Tertiary Plate Kinematics, Continental Breakup and Sea-Floor Spreading History of the Northern North Atlantic and Arctic Ocean

Convener: Kuszniir, N.
 Co-Convener(s): Sibuet, J., Chalmers, J.
 Lecture Room 23
 Chairperson: KUSZNIR, N.

8:30–8:45; EGU2007-A-06407; GD20-1TH1O-001
Gaina, C.; Torsvik, T.H.; Gernigon, L.; Ball, P.J.
 Cretaceous-Tertiary plate boundaries in the North Atlantic and Arctic (solicited)

8:45–9:00; EGU2007-A-05773; GD20-1TH1O-002
Verzhbitsky, V.; Miller, E.
 Structural studies in the Pevek region, Russia: Possible implications for the evolution of the East Siberian Shelf and Makharov Basin of the Arctic Ocean (solicited)

9:00–9:15; EGU2007-A-01640; GD20-1TH1O-003
Oakey, G.; **Chalmers, J.**
 A new plate kinematic model for the Paleogene motion of Greenland relative to North America (solicited)

9:15–9:30; EGU2007-A-07215; GD20-1TH1O-004
Jokat, W.; Leinweber, V.; Ehlers, B.M.; Schenke, H.M.
 The timing and geometry of the Fram Strait opening (solicited)

9:30–9:45; EGU2007-A-09377; GD20-1TH1O-005
Tsikalas, F.; Faleide, J.I.; Breivik, A.J.; Mjelde, R.; Wilson, J.; Eldholm, O.; Kuszniir, N.J.
 Structure and evolution of the northern Voring and Lofoten-Vesterålen margins, and their conjugate NE Greenland margin (solicited)

9:45–10:00; EGU2007-A-03964; GD20-1TH1O-006
Torsvik, T.H.; Steinberger, B.; Gaina, C.
 North Atlantic plate motions and plumes (solicited)

10:00 COFFEE BREAK

Chairperson: CHALMERS, J.

10:30–10:45; EGU2007-A-04689; GD20-1TH2O-001
Foulger, G.R.
 An evidence-based model for the north-Atlantic igneous province (solicited)

10:45–11:00; EGU2007-A-02786; GD20-1TH2O-002
Elliott, G.M.; Parson, L.M.
 Influence of margin segmentation and anomalous volcanism upon the break-up of the Hatton Bank rifted margin, west of the UK (solicited)

11:00–11:15; EGU2007-A-09056; GD20-1TH2O-003
Louden, K.E.; Lau, K.W.H
 Continental breakup and early sea-floor spreading offshore eastern Canada (solicited)

11:15–11:30; EGU2007-A-10395; GD20-1TH2O-004
Cannat, M.; Sauter, D.; Manatschal, G.; Peron-Pivindic, G.
 Ultra-slow spreading ridges and oceanization at slowly rifted margins. (solicited)

11:30–11:45; EGU2007-A-05587; GD20-1TH2O-005
Muntener, O.; Manatschal, G.
 Continental breakup in the Iberia-Newfoundland rift: a mantle perspective (solicited)

11:45–12:00; EGU2007-A-04989; GD20-1TH2O-006
Sibuet, J.-C.; Tucholke, B.E.; Srivastava, S.; Manatschal, G.
 Transitional crust in the Newfoundland-Iberia rift and associated magnetic anomalies (solicited)

12:00 END OF SESSION

Geomorphology

GM9 Monitoring and modelling in periglacial and glacial geomorphology (co-listed in CR & CL)

Convener: Christiansen, H.
 Co-Convener(s): Frauenfelder, R., Roer, I.
 Lecture Room 17 (M)
 Chairperson: N.N.

13:30–14:00; EGU2007-A-05823; GM9-1TH3O-001
Lewkowicz, A.G.
 Solifluction processes and landforms in the Arctic and Subarctic (solicited)

14:00–14:15; EGU2007-A-04784; GM9-1TH3O-002
Matsuoka, N.
 Two contrasting soil movements contributing to the advance of solifluction lobes in the Swiss Alps

14:15–14:30; EGU2007-A-04340; GM9-1TH3O-003
Luetschg, M.; Harris, C.
 Centrifuge modelling of solifluction process for permafrost and non-permafrost areas

14:30–14:45; EGU2007-A-10602; GM9-1TH3O-004
Delaloye, R.; Lambiel, C.
 Monitoring concept for observing the activity of alpine rock glaciers at a regional scale

14:45–15:00; EGU2007-A-11330; GM9-1TH3O-005
Bolch, T.
 Occurrence and characteristics of rockglaciers in the Tien Shan (Central Asia)

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-09643; GM9-1TH4O-001
Kneisel, C.
 Integrative analysis of mountain permafrost dynamics – examples from mid-latitude high-alpine and high-latitude subarctic periglacial environments

15:45–16:00; EGU2007-A-11381; GM9-1TH4O-002
Hauck, C.; Delaloye, R.; Farbrøt, H.; Frauenfelder, R.; Hilbich, C.; Kneisel, C.; Krautblatter, M.; Nyenhuis, M.; Otto, J.; Roer, I.
 Ice content and ice origin of mountain permafrost occurrences using electrical resistivity tomography

16:00–16:15; EGU2007-A-11331; GM9-1TH4O-003
Juliussen, H.; Humlum, O.
 Towards a TTOP ground temperature model for mountain terrain in central-eastern Norway

16:15–16:30; EGU2007-A-07191; GM9-1TH4O-004
Deline, P.; The PERMAdataROC Team
 The relation of permafrost degradation and slope instabilities in high-Alpine steep rockwalls (Mont Blanc massif and Matterhorn): the research project PERMAdataROC

16:30–16:45; EGU2007-A-09613; GM9-1TH4O-005
Vieira, G.; Ramos, M.; Gruber, S.; Hauck, C.; Blanco, J.J.; López Martínez, J.; Serrano, E.
 Permafrost and slope evolution in an active volcanic area (Deception Island, Maritime Antarctic)

16:45–17:00; EGU2007-A-03565; GM9-1TH4O-006
Lukas, S.; Schindelwig, I.; Graf, A.; Preusser, F.; Schl¹/₄chter, C.
 Younger Dryas glacial landsystems in the Swiss Alps – processes of moraine formation and modification

17:00 END OF SESSION

GM9 Monitoring and modelling in periglacial and glacial geomorphology (co-listed in CR & CL) – Posters

Convener: Christiansen, H.
 Co-Convener(s): Frauenfelder, R., Roer, I.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0439; EGU2007-A-04293; GM9-1TH5P-0439
Harris, C.; Luetschg, M.
 A comparative study of solifluction processes in Dovrefjell, Norway and Endalen, Svalbard

XY0440; EGU2007-A-08805; GM9-1TH5P-0440
Otto, J.C.; Roer, I.; Nyenhuis, M.
 Rock glaciers in the alpine sediment cascade

XY0441; EGU2007-A-05021; GM9-1TH5P-0441

Damm, B.

Monitoring of mountain permafrost creep - variations of rockglacier kinematics in the eastern European Alps

XY0442; EGU2007-A-07751; GM9-1TH5P-0442

Roer, I.; Gärtner, H.; Heinrich, I.

Permanently frozen ground and related ground movements: new applications in dendrogeomorphology

XY0443; EGU2007-A-09441; GM9-1TH5P-0443

Frauenfelder, R.; Farbröt, H.; Hauck, C.; Hilbich, C.; Kneisel, C.; Tolgensbakk, J.

Comparison of two active rockglaciers: Sannjarriep'pi rockglacier, Kåfjord area, Troms, Northern Norway - Gianda Grischa rockglacier, Upper Engadine, Swiss Alps

XY0444; EGU2007-A-03914; GM9-1TH5P-0444

Reitner, J. M.; Gruber, A.

The formation of rock glaciers from mass movements

XY0445; EGU2007-A-11442; GM9-1TH5P-0445

Humlum, O.; Christiansen, H.H.

The Longyearbyen (Svalbard) debris flow event July 1972 revisited

XY0446; EGU2007-A-10666; GM9-1TH5P-0446

Hilbich, C.; Delaloye, R.

Interactions between air circulation within talus slope and permafrost evolution - results from temperature monitoring and time-lapse electrical resistivity tomography

XY0447; EGU2007-A-09293; GM9-1TH5P-0447

Noetzli, J.; Fischer, L.; Gruber, S.

3-dimensional analysis of the thermal conditions in recent periglacial rock fall detachment zones

XY0448; EGU2007-A-10520; GM9-1TH5P-0448

Hasler, A.; Talzi, I.; Gruber, S.; Tschudin, Ch.; Vonder Mühl, D.

First Experiences with wireless Sensor Networks in steep Bedrock Permafrost

XY0449; EGU2007-A-09713; GM9-1TH5P-0449

Bedežasing, J.; Krautblatter, M.; Wolff, I. W.

Detailed geomorphic mapping in a high mountain/periglacial environment, Mattertal and Turtmantal, Valais, Switzerland

XY0450; EGU2007-A-05639; GM9-1TH5P-0450

Andrés, N.; Palacios, D.; Marcos, F.J.

Bottom temperature of snow and its geomorphologic significance in Mediterranean mountains (Sierra de Guadarrama, Spain)

XY0451; EGU2007-A-03075; GM9-1TH5P-0451

Dobinski, W

First results of the geophysical research of the lower border of permafrost occurrence in the Abisko area Lapland, Sweden

XY0452; EGU2007-A-04173; GM9-1TH5P-0452

Bach, M.; Hauck, C.

Inversion of time dependent geoelectric and seismic data for 2D imaging of ice- and watercontent in the upper subsurface

XY0453; EGU2007-A-10060; GM9-1TH5P-0453

Wolff, I. W.; Dikau, R.

Late-Glacial and Holocene-historical glaciated areas in the Turtmantal, Valais, Suisse.

XY0454; EGU2007-A-09481; GM9-1TH5P-0454

Etzelmüller, B.

The influence of permafrost on paraglacial processes

XY0455; EGU2007-A-09821; GM9-1TH5P-0455

Kääb, A.; Kneisel, C.

Permafrost creep within recently deglaciated glacier forefields. A case study at Muragl glacier, Swiss Alps

XY0456; EGU2007-A-09464; GM9-1TH5P-0456

Schneevoigt, N.J.; Kääb, A.

Remote sensing for mapping glacial and periglacial mountain environments. Examples from geomorphic landforms in the Bavarian Alps and from Norwegian glaciers

XY0457; EGU2007-A-09411; GM9-1TH5P-0457

Narama, C.; Kondo, R.; Tsukamoto, S.; Kajiura, T.; Murataly, D.; Abdrakhmatov, K.

Timing of glacier expansion during the last Glacial in the northern and central Tien Shan, Kyrgyz Republic by OSL dating

GM15 Deep Alpine Valleys: recording the topographic, climatic and tectonic evolution of mountain belts (co-listed in CL)

Convener: Decker, K.

Co-Convener(s): Fiebig, M., Schlüchter, C.

Lecture Room 17 (M)

Chairperson: DECKER, K.

8:30–8:45; EGU2007-A-03244; GM15-1TH1O-001

Schlüchter, C.

Deep Alpine and Perialpine Valleys

8:45–9:00; EGU2007-A-02543; GM15-1TH1O-002

Preusser, F.; Schlüchter, C

On the age of deep glacial erosion in the Alps (solicited)

9:00–9:15; EGU2007-A-03833; GM15-1TH1O-003

Reitner, J. M.; van Husen, D.

Overdeepened valleys in the Eastern Alps: Why are they still interesting?

9:15–9:30; EGU2007-A-10852; GM15-1TH1O-004

Schrott, L.; Sass, O.; Götz, J.; Geilhausen, M.

Sediment storage in alpine basins – quantification and geomorphic (de)coupling

9:30–9:45; EGU2007-A-10301; GM15-1TH1O-005

Dühnforth, D.; Densmore, D.; Ivy-Ochs, I.; Allen, A

Influence of glacial modification of catchments on sediment fluxes in the eastern Sierra Nevada, California

9:45–10:00; EGU2007-A-08798; GM15-1TH1O-006

Székely, B.; Frisch, W.; Kuhlemann, J.; Danišák, M.; Dunkl, I.

Glaciation cycles, sediment production, isostasy, and fluvial response: are the valleys in the Eastern Alps deep enough? (solicited)

10:00 COFFEE BREAK

Chairperson: SCHLÜCHTER, C.

10:30–10:45; EGU2007-A-07677; GM15-1TH2O-001

Decker, K.

“Deep Alpine Valleys” and their implications on active Alpine tectonics

10:45–11:00; EGU2007-A-09663; GM15-1TH2O-002

Reiter, F.; Ortner, H.; Lenhardt, W.; Brandner, R.

Evidence for activity of the Inn Valley fault zone (Tyrol, Austria) from earthquake and GPS data

11:00–11:15; EGU2007-A-01989; GM15-1TH2O-003

Plan, L.; Decker, K.; Spötl, Ch.; Grasemann, B.; Offenbecher, K.H.

Paleoseismic data from deformed speleothems at the Salzach-Ennstal Fault System: indications for Quaternary lateral extrusion of the central Eastern Alps

11:15–11:30; EGU2007-A-06219; GM15-1TH2O-004
Neubauer, F.; Keil, M.; Windberger, M.
 Initiation and evolution of a major fault-controlled valley:
 the Enns valley, Eastern Alps

11:30–11:45; EGU2007-A-06422; GM15-1TH2O-005
Brückl, E.; Brückl, J.; Chwatal, W.; Ullrich, Ch.
 Deep Alpine Valleys – examples of geophysical explorations
 in Austria

11:45–12:00; EGU2007-A-03356; GM15-1TH2O-006
Robl, J.; Stüwe, K.; Hergarten, S.
 Is there a Tectonic Control of Drainage Systems in the
 European Alps? - A Numerical Approach

12:00 END OF SESSION

**GM15 Deep Alpine Valleys: recording the topographic,
 climatic and tectonic evolution of mountain belts (co-
 listed in CL) – Posters**

Convener: Decker, K.
 Co-Convener(s): Fiebig, M., Schlüchter, C.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0458; EGU2007-A-07987; GM15-1TH5P-0458
Bini, A.; Haeuselmann, P.; Felber, M.
 The Deep Valleys in Northern Italy

XY0459; EGU2007-A-11542; GM15-1TH5P-0459
Haldimann, P.
 Deep valleys in the Swiss Molasse Unit - 10 million years of
 erosion and sediment accumulation (cancelled)

XY0460; EGU2007-A-09369; GM15-1TH5P-0460
Reitner, J.M.; Gruber, W.; Römer, A.; Bieber, G.;
 Schmid, C.
 Complex Pleistocene stratigraphy and structure within an
 inneralpine setting: The basin of Hopfgarten (Northern
 Tyrol/Austria)

XY0461; EGU2007-A-09460; GM15-1TH5P-0461
 Ellwanger, D.; **Fiebig, M.;** Gabriel, G.; Hoselmann, C.;
 Weidenfeller, M.
 Scientific Deep Drilling – The Heidelberg Basin Project

XY0462; EGU2007-A-02718; GM15-1TH5P-0462
Dehnert, A.; Akçar, N.; Fiebig, M.; Häuselmann, P.;
 Kasper, H. U.; Kubik, P.; Preusser, F.; Schlüchter, C.
 Burial dating of sediments by cosmogenic nuclides

XY0463; EGU2007-A-03270; GM15-1TH5P-0463
Popotnig, A.; Decker, K.; Grasemann, B.
 Active kinematics and tectonic geomorphology of the
 Lavanttal Fault

XY0464; EGU2007-A-08094; GM15-1TH5P-0464
Ortner, H.; Reiter, F.; Brandner, R.; Lenhardt, W.
 The Inn valley – does geological history help to understand
 present-day tectonic processes?

XY0465; EGU2007-A-01954; GM15-1TH5P-0465
 Ustaszewski, M.; **Hampel, A.;** Pfiffner, A.
 Formation of active composite faults in the Swiss Alps: the
 complex interplay of tectonics, gravitation and postglacial
 unloading

XY0466; EGU2007-A-07257; GM15-1TH5P-0466
Meurers, B.
 The gravity field of the Inn valley (Eastern Alps) as image
 of an over-deepened basement structure

XY0467; EGU2007-A-06435; GM15-1TH5P-0467
 Schmid, Chr.; Weber, F.; Schoen, J.
 Seismic velocity problems in glacial overdeepened alpine
 valleys

XY0468; EGU2007-A-07120; GM15-1TH5P-0468
 Schmid, Chr.; Weber, F.
 A contribution to the Quaternary geology of the Enns valley
 by reflection seismics between Liezen and Weng (Austria)

**GM17 Quaternary Landscape Evolution and Paleo-
 Geocology (co-listed in CL)**

Convener: Terhorst, B.
 Co-Convener(s): Veit, H., Solleiro-Rebolledo, E.
 Lecture Room 7
 Chairperson: N.N.

10:30–10:45; EGU2007-A-00021; GM17-1TH2O-001
Ghilardi, M.; Kunesch, S.; Styllas, M.; Fouache, E.
 Variations and interpretations of magnetic susceptibility
 signal of Mid-Holocene sediments in the Central part of the
 Thessaloniki plain (Greece)

10:45–11:00; EGU2007-A-05790; GM17-1TH2O-002
 Ramos, C.; **Pereira, A.;** Azevêdo, T.; Nunes, N.; Freitas, C.;
 Andrade, C.; Mozzi, P.; Favaretto, S.
 Middle Tagus alluvial plain evolution since the last glacial
 (Portugal)

11:00–11:15; EGU2007-A-03033; GM17-1TH2O-003
Zech, R.; Kull, Ch.; Kubik, P.W.; Veit, H.
 Glacial chronologies along the Andes (15–40°S) based on
 10Be surface exposure dating

11:15–11:30; EGU2007-A-04477; GM17-1TH2O-004
May, J.-H.; Veit, H.
 Late Quaternary piedmont stratigraphy and paleoenviron-
 ments of Eastern Bolivia

11:30–11:45; EGU2007-A-09548; GM17-1TH2O-005
Krause, J.; Schütt, B.
 Channel-morphology based palaeohydrological analysis of
 the Achelouma valley, NE-Niger

11:45–12:00; EGU2007-A-10375; GM17-1TH2O-006
 Riegler, D.
 Reconstruction of a Late Pleistocene Paleorelief in Lower
 Austria

12:00 END OF SESSION

**GM17 Quaternary Landscape Evolution and Paleo-
 Geocology (co-listed in CL) – Posters**

Convener: Terhorst, B.
 Co-Convener(s): Veit, H., Solleiro-Rebolledo, E.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0469; EGU2007-A-03936; GM17-1TH5P-0469
 Häusler, H.; Kovács, G.; Sauermann, I.; Wild, E.; Steiner, P.
 Paleogeography of the Austro-Hungarian Lake Neusiedl -
 Hanság region in historic times, based on 14C-dating

XY0470; EGU2007-A-02035; GM17-1TH5P-0470
Terhorst, B.; Damm, B.
 Sequences of slope formation and actual process dynamics in
 the Flysch Zone of the Wienerwald (Vienna Forest/Austria)

XY0471; EGU2007-A-06268; GM17-1TH5P-0471

Jakab, G.; Sümegi, P.; **Timár, G.**

A palaeochannel evolution history from Hajós-kaszálók Mire in Danube alluvial plain in the southern part of Hungary

XY0472; EGU2007-A-06284; GM17-1TH5P-0472

Sümegi, P.; Töröcsik, T.; **Timár, G.**

A palaeochannel evolution history from Vörös Marsh in Danube alluvial plain in the southern part of Hungary

XY0473; EGU2007-A-06624; GM17-1TH5P-0473

Zámolyi, A.; Székely, B.; Timár, G.; Draganits, E.

Quantitative river channel analysis based on georeferenced historical maps - documenting vertical movements in the Little Hungarian Plain

XY0474; EGU2007-A-10353; GM17-1TH5P-0474

Peticzka, R.; **Riegler, D**

Comparison of Different Sample Intervals on the Location of "Stillfried B"

XY0475; EGU2007-A-08344; GM17-1TH5P-0475

Fronteau, G.; Lejeune, O.; Thomachot, C.; Buselin, E.; Chopin, E.; Devos, A.; Leroux, F.; Thomas, Y.; Verrier, G.

Landscape evolution of the highly anthropized Meuse flood plain (Eastern France) using geomorphology, stratigraphy and geochronology.

XY0476; EGU2007-A-08878; GM17-1TH5P-0476

Sontheimer, A.; Strasser, M.; Pelz, K.; Seyfried, H.

Reconstruction of Pleistocene landforms and quantification of long-term erosion in southwestern Germany using digital elevation models

XY0477; EGU2007-A-06250; GM17-1TH5P-0477

Vanwallegghem, T.; Van Den Eeckhaut, M.; Poesen, J.; Govers, G.; Deckers, J

Reconstructing past human impact on the landscape with logistic regression

XY0478; EGU2007-A-03538; GM17-1TH5P-0478

Paasche, Ø.; **Strømsøe, J.R.**; Dahl, S.O.; Linge, H.

Weathering characteristics of arctic islands in northern Norway

XY0479; EGU2007-A-02426; GM17-1TH5P-0479

Yair, A.

Complex geo-ecological responses to climatic changes in an arid area: the case of the northern Negev desert

XY0480; EGU2007-A-00895; GM17-1TH5P-0480

Solleiro-Rebolledo, E.; Sedov, S.

Paleosol sequences in Mexican volcanic landscapes: multi-scale proxy of Quaternary environmental change

XY0481; EGU2007-A-02908; GM17-1TH5P-0481

Eisenhut, A.; Zech, R.; Kubik, P. W.; Veit, H.

Surface exposure dating on moraines in the Valle Rucachoroi (39°S, Argentina) and on Cerro Fredes Plateau (31°S, Chile)

XY0482; EGU2007-A-05711; GM17-1TH5P-0482

Hesse, R.; Baade, J.

Late Quaternary Landscape Evolution in the Coastal Desert of southern Peru

13:30–13:45; EGU2007-A-05931; GM19-1TH3O-001

Verstraeten, G.

The changing human impact on sediment dynamics during the Holocene across different environments

13:45–14:00; EGU2007-A-01424; GM19-1TH3O-002

Reiß, SR

Land use and sediment dynamics since the Neolithic Age in Dithmarschen (Schleswig-Holstein, Germany)

14:00–14:15; EGU2007-A-11370; GM19-1TH3O-003

Houbrechts, G.; Mols, J.; Petit, F.

Estimation of sediment storage in Ardenne's floodplains (Belgium) during the last centuries

14:15–14:30; EGU2007-A-10525; GM19-1TH3O-004

Hoffmann, T.; Erkens, G.

Trends in Holocene floodplain sedimentation in the Rhine catchment

14:30–14:45; EGU2007-A-03201; GM19-1TH3O-005

Notebaert, B.; Verstraeten, G.; Rommens, T.; Poesen, J.; Govers, G.

A preliminary catchment sediment budget for the river Dijle

14:45–15:00; EGU2007-A-02717; GM19-1TH3O-006

Brommer, M.B.; Weltje, G.J.; Kettner, A.J.; Trincardi, F.

A mass-balanced reconstruction of sediment supply to the Adriatic Basin from the Last Glacial Maximum to the present

15:00 COFFEE BREAK

Chairperson: HOUBEN, P. VERSTRAETEN, G.

15:30–15:45; EGU2007-A-05717; GM19-1TH4O-001

Hesse, R.; Baade, J.

Irrigation Agriculture and the sedimentary Record in the Palpa Valley, southern Peru

15:45–16:00; EGU2007-A-05624; GM19-1TH4O-002

Götz, J.; Schrott, L.

Comparing short and long term sediment fluxes in an Alpine basin (Reintal, Bavarian Alps)

16:00–16:15; EGU2007-A-07219; GM19-1TH4O-003

Chiverrell, R.C.; Foster, G

Forcing of temporal and spatial changes in sediment movement within a fluvial system

16:15–16:30; EGU2007-A-06140; GM19-1TH4O-004

Wichmann, V.; **Heckmann, T.**; Haas, F.; Becht, M.

Modelling alpine sediment cascades: Process interaction and landscape connectivity

16:30–16:45; EGU2007-A-00588; GM19-1TH4O-005

Welsh, K.E.; Chiverrell, R.; Coulthard, T.J.; Dearing, J.A.; Lang, A.

Modelling decadal flooding and sediment transport in pre-alpine France

16:45–17:00; EGU2007-A-00011; GM19-1TH4O-006

Claessens, L.; Lowe, D.J.; Hayward, B.W.; Schaap, B.F.; Schoorl, J.M.; Veldkamp, A.

Reconstructing high-magnitude/low-frequency landslide events based on soil redistribution modelling and a Late-Holocene sediment record from New Zealand

17:00 END OF SESSION

GM19 Quantifying and modelling human and climate controlled sediment dynamics (co-listed in CL)

Convener: Verstraeten, G.

Co-Convener(s): Lang, A., Houben, P.

Lecture Room 7

Chairperson: LANG, A. VERSTRAETEN, G.

GM19 Quantifying and modelling human and climate controlled sediment dynamics (co-listed in CL) – Posters

Convener: Verstraeten, G.
Co-Convener(s): Lang, A., Houben, P.
Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 17:30–19:00

Poster Area Halls X/Y
Chairperson: VERSTRAETEN, G.

XY0483; EGU2007-A-09036; GM19-1TH5P-0483

Förster, H.; Houben, P.; Wunderlich, J.
Sediment Budget Modeling in Mountain Areas: Usability of available Soil Data

XY0484; EGU2007-A-02784; GM19-1TH5P-0484

Beylich, A.A.

Sediment transfers, sediment budgets and relief development in three catchments in different cold environments in sub-Arctic East Iceland and Arctic Swedish Lapland

XY0485; EGU2007-A-04855; GM19-1TH5P-0485

Condom, Th.; **Schmidt, S.;** Lignier, V.
Changes in sediment deposition in the catchment of a man-made reservoir in the Pyrenean region (France) over the last 80 years. Comparison between local sedimentation rates and simple distributed erosion model

XY0486; EGU2007-A-05703; GM19-1TH5P-0486

Döhler, D.; Wunderlich, W.; Houben, H.
Sediment budget in a German upland area for the Holocene (Odenwald mountains)

XY0487; EGU2007-A-01099; GM19-1TH5P-0487

Rommens, T.; **Verstraeten, G.;** Peeters, I.; Poesen, J.; Govers, G.; Van Rompaey, A.; Lang, A.
Holocene Sediment Dynamics in a Small River Catchment in Central Belgium

XY0488; EGU2007-A-04334; GM19-1TH5P-0488

Peeters, I.; Temme, A.; Buis, E.; Govers, G.; Veldkamp, A.
Comparison of Two Landscape Evolution Models in the Belgian Loess Belt

XY0489; EGU2007-A-05879; GM19-1TH5P-0489

Van De Wiel, M.J.
Simulating the impact of long-term environmental change on catchment sediment dynamics and floodplain evolution

XY0490; EGU2007-A-02797; GM19-1TH5P-0490

Haregeweyn, N.; Poesen, J.; Nyssen, J.; Govers, G.; Verstraeten, G.; Haile, M.; Deckers, J.; de Vente, J.
Evaluation of sediment yield models beyond the region of origin using documented Ethiopian catchments

XY0491; EGU2007-A-01365; GM19-1TH5P-0491

Lu, Xi Xi
Rapid reduction of suspended sediment flux from large Chinese rivers to the sea

XY0492; EGU2007-A-02190; GM19-1TH5P-0492

Hardy, R.J.; Lane, S.N.; Parsons, D.R.; Best, J.L.; Orfeo, O.; Kostaschuk, R.
Can Computational Fluid Dynamics be used to study large rivers?

XY0493; EGU2007-A-07447; GM19-1TH5P-0493

Lane, S.N.; Parsons, D.; Best, J.L.; Orfeo, O.; Kostaschuk, R.; Hardy, R.J.
Why can big rivers take so long to mix downstream of tributary junctions

XY0494; EGU2007-A-07453; GM19-1TH5P-0494

Lane, S.N.
A theoretical analysis of controls on mixing at the junctions of large rivers

XY0495; EGU2007-A-03607; GM19-1TH5P-0495

Krasnoshechekov, S.Y.; Carling, P.A.
Up-scaling river planform discriminators to include large river systems

GM24 GEOMATICS applications in GEOMORPHOLOGY: new technologies for the improvement of an "old" science – Posters

Convener: MANZONI, G.
Co-Convener(s): Giardino, M., Tamburini, A.
Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 17:30–19:00

Poster Area Halls X/Y
Chairperson: N.N.

XY0496; EGU2007-A-08225; GM24-1TH5P-0496

Gallerini, G.; Bruciatelli, L.; De Donatis, M.; Susini, S.
Geomatics applied to landslide digital field mapping

XY0497; EGU2007-A-07752; GM24-1TH5P-0497

Giardino, M.; Perotti, L.; **Chiuminatto, D.;** Marenchino, D.
Terrestrial digital photogrammetry and Laser Scanner: analysis of the quantitative morfodynamic in the Miage Valley (Mont Blanc)

XY0498; EGU2007-A-09835; GM24-1TH5P-0498

Vassena, G.
Rwenzori 2006 GPS geodetic network

XY0499; EGU2007-A-09760; GM24-1TH5P-0499

Vassena, G.; Sgrenzaroli, M.; Gelmini, M.; Corti, G.; Smiraglia, C.
High altitude laser scanner and GPS measurements on Rwenzori, to analyse the glacier front of Speke glacier

XY0500; EGU2007-A-11431; GM24-1TH5P-0500

Villa, F.; De Amicis, M.; Sironi, S.; Maggi, V.; Tamburini, A.
Analysis of Rutor glacier recent evolution: a quantitative approach

XY0501; EGU2007-A-07525; GM24-1TH5P-0501

Perotti, L.; Giardino, M.; Borgogno Mondino, E.; Russo, S.
Orthoprojection of MIVIS airborne hyperspectral images of mountain regions: results and preliminary geomorphological applications in the Aosta Valley (NW-Italy)

XY0502; EGU2007-A-10822; GM24-1TH5P-0502

Blasi, C.; **Guida, D.;** Siervo, V.; Paolanti, M.; Michetti, L.; Capotorti, C.; Smiraglia, D.
An integrated, hierarchical, multiscale, gis_based approach to defining and mapping the landscape of Italy.

XY0503; EGU2007-A-10012; GM24-1TH5P-0503

Di Lisio, A.; Aucelli, P.P.C.; Russo, F.
Some consideration on geomatic approach to morphometric parameter determination of a drainage basin

XY0504; EGU2007-A-09931; GM24-1TH5P-0504

Godone, D.; Godone, F.; Maraga, F.
Topographic techniques for evaluating ongoing fluvial erosion in river channel beds

XY0505; EGU2007-A-10744; GM24-1TH5P-0505

Esposito, A.; Aucelli, P.C.; Cinque, A.; Robustelli, G.; Mendicelli, A.
Automated landform mapping based on standard clustering algorithms and morphometric parameters using coarse digital terrain models

XY0506; EGU2007-A-08332; GM24-1TH5P-0506

Wobbe, F.; Stanek, K.P.; Gloaguen, R.
Uplift rates from topography: Experimental research on river profiles in Oriente, Cuba

XY0507; EGU2007-A-07527; GM24-1TH5P-0507
Giardino, M.; Perotti, L.; Baima Poma, G.; Alberto, W.
 Creation and test of software SRG2, a support for reliable
 geomorphological field data collection, GIS and mapping
 activities

XY0508; EGU2007-A-07493; GM24-1TH5P-0508
Perotti, L.; Martinotti, G.; Borgogno Mondino, E.; Russo, S.
 Geomatic applications for map production and geophysical
 techniques applied to archaeology, Karima, North Sudan

Geosciences Instrumentation and Data Systems

GI5 Space Instrumentation (co-listed in PS, ST, AS, G & OS)

Convener: Leese, M.
 Co-Convener(s): Kargl, G.
 Lecture Room 2
 Chairperson: KARGL, G.

8:30–8:45; EGU2007-A-11160; GI5-1TH1O-001
 Milagro Perez, M.; Serpe, D.; **Benveniste, J.**
 Envisat Radar-Altimeter Individual Echoes: preliminary
 geophysical results of the retracked RA2 individual wave-
 forms over various surfaces

8:45–9:00; EGU2007-A-11153; GI5-1TH1O-002
Harris, W.; Dawson, O.; Giersch, L.; Corliss, J.; Roesler, F
 Broadband SHS: A new technique for velocity resolved
 measurement of diffuse emission line sources

9:00–9:15; EGU2007-A-03256; GI5-1TH1O-003
 Kaufmann, E.; Kömle, N.I.; Kargl, G.; Engelhardt, M.;
 Romstedt, J.
 Development of instruments for the investigation of extrater-
 restrial ice layers

9:15–9:30; EGU2007-A-07810; GI5-1TH1O-004
 Weiss, P.; Yung, K.L.; Ng, T.C.; Koemle, N.; Kargl, G.;
 Kaufmann, E.
 The Study of a Melting Hammering Drill Head in the
 exploration of subsurface planetary ice layers

9:30–9:45; EGU2007-A-07703; GI5-1TH1O-005
Krause, C.; Seidensticker, K.J.; Richter, L.
 Investigation of Planetary Surfaces with Acoustic Sounding

9:45–10:00; EGU2007-A-09081; GI5-1TH1O-006
 Niedermayr, A.; **Kargl, G.;** Simoes, F.; Trautner, R.
 Measurement of the dielectric properties of Martian soil
 analogue materials with a mutual impedance probe

10:00 COFFEE BREAK

Chairperson: LEESE, M.

10:30–10:45; EGU2007-A-09112; GI5-1TH2O-001
Srama, R.; Roeser, H.P.; Gruen, E.; The SOLO Dust Team
 The Solar Orbiter Dust Telescope

10:45–11:00; EGU2007-A-10537; GI5-1TH2O-002
Blake, B.; Crain, W.; Mabry, D.
 A miniaturized radiation detection system for spacecraft

11:00–11:15; EGU2007-A-03200; GI5-1TH2O-003
Ogasawara, K.; Takashima, T.; Miyake, W.; Asamura, K.;
 Hirahara, M.; Saito, Y.; Mukai, T.
 Avalanche photodiodes for medium-energy electrons

11:15–11:30; EGU2007-A-10674; GI5-1TH2O-004
Brown, P.; Beek, T.; Carr, C.; O'Brien, H.; Horbury, T
 Towards a space magnetometer based on solid state technol-
 ogy

11:30–11:45; EGU2007-A-04667; GI5-1TH2O-005
Vaisberg, O.; Berthelier, J.-J.; Torkar, K.; Leblanc, F.;
 Avannov, L.; Smirnov, V.; Skalski, A.; Koinash, G.; Burch, J.;
 McComas, D.
 Imaging ion mass-spectrometer for magnetospheric and
 planetary applications

11:45–12:00; EGU2007-A-10600; GI5-1TH2O-006
Desai, M.; Allegrini, F.; Ho, G.; Livi, S.; McComas, D.;
 Paschalides, N.; Posner, A.
 A novel Supra-Thermal Ion Spectrometer for Heliospheric
 (STISH) missions

12:00 END OF SESSION

GI6/PS1.3 Planetary Imaging Systems - Design, Implementation, and Results (co-organized by PS, co-listed in ST)

Convener: Thomas, N.
 Co-Convener(s): Smith, P.
 Lecture Room 2
 Chairperson: N.N.

15:30–15:45; EGU2007-A-07934; GI6/PS1.3-1TH4O-001
Smith, P. H.
 Mars surface cameras from Pathfinder to Phoenix (solicited)

15:45–16:00; EGU2007-A-10620; GI6/PS1.3-1TH4O-002
Bell III, J.F.
 High Resolution Multispectral CCD Imaging from the Mars
 Exploration Rover Pancam Instruments (solicited)

16:00–16:15; EGU2007-A-04863; GI6/PS1.3-1TH4O-003
Jaumann, R.; Neukum, G.; HRSC Experiment and Co-
 Investigator Team, The
 The High Resolution Stereo Camera (HRSC) Experiment on
 Mars Express (solicited)

16:15–16:30; EGU2007-A-05148; GI6/PS1.3-1TH4O-004
Thomas, N.; McEwen, A.S.; THE HIRISE TEAM
 First results from HiRISE observations of the surface of
 Mars (solicited)

16:30–16:45; EGU2007-A-09472; GI6/PS1.3-1TH4O-005
Esposito, LW
 Ultra-Violet imaging; Imaging results from the UVIS experi-
 ment on Cassini (solicited)

16:45–17:00; EGU2007-A-09368; GI6/PS1.3-1TH4O-006
Markiewicz, W.J.
 The Venus Monitoring Camera - design and first results
 (solicited)

17:00–17:15; EGU2007-A-06116; GI6/PS1.3-1TH4O-007
Cremonese, G.; THE SIMBIOSYS TEAM
 High Resolution and Stereo Channels of the SYMBIO-SYS
 instrument for BepiColombo (solicited)

17:15–17:30; EGU2007-A-09388; GI6/PS1.3-1TH4O-008
Mottola, S.; The DAWN Team
 The camera for Dawn - Design and expected results (so-
 licited)

17:30 COFFEE BREAK

Chairperson: THOMAS, N.

17:30–17:45; EGU2007-A-04091; GI6/PS1.3-1TH5O-001
Michaelis, H.; Behnke, T.
 Detectors and imaging sensor concepts for future planetary
 mission (solicited)

17:45–18:00; EGU2007-A-11492; GI6/PS1.3-1TH50-002
Delamere, W.
 Time Delay and Integration: From HMC to HiRISE (solicited)

18:00–18:15; EGU2007-A-00940; GI6/PS1.3-1TH50-003
Huebner, W. F.
 A review of imaging results from missions to comets (solicited)

18:15–18:30; EGU2007-A-08441; GI6/PS1.3-1TH50-004
A'Hearn, M.
 Cometary imaging: Remote sensing to Rosetta (solicited)

18:30–18:45; EGU2007-A-01919; GI6/PS1.3-1TH50-005
Keller, H.U.; Sierks, H.
 Cometary physics observed by OSIRIS during the Rosetta rendezvous (solicited)

18:45–19:00; EGU2007-A-01066; GI6/PS1.3-1TH50-006
Küppers, M.; Keller, H. U.; OSIRIS Team, The
 The OSIRIS cameras on Rosetta - Results from Deep Impact and remote observations of the Rosetta target asteroids (solicited)

19:00 END OF SESSION

GI7/PS1.2 Planetary Landers and Instrumentation (co-organized by PS)

Convener: Falkner, P.
 Co-Convener(s): Harri, A., Barnes, D.
 Lecture Room 2
 Chairperson: N.N.

13:30–13:45; EGU2007-A-05093; GI7/PS1.2-1TH30-001
Coleman, M.L.; Webster, C.R.; Chutjian, A.; Brunner, B.; Christensen, L.E.; MacAskill, J.A.; Madzunkov, S.M.; Mielke, R.E.; Truong, K.N.
 Novel approaches to stable isotope instruments for in situ measurements of mineral samples

13:45–14:00; EGU2007-A-03863; GI7/PS1.2-1TH30-002
Chela-Flores, J.
 Life habitability in the solar system: testing the universality of biology on Europa with microprobes or landers

14:00–14:15; EGU2007-A-09049; GI7/PS1.2-1TH30-003
Heggy, E.; Clifford, S. M.; Hughes, S. S.; Ciarletti, V.
 Mapping Structural Elements in Volcanic Terrain Using Multiple Frequencies and Polarimetric Ground Penetrating Radar: Analogy to the Martian Case

14:15–14:30; EGU2007-A-10160; GI7/PS1.2-1TH30-004
Ulamet, S.; Biele, J.; Block, J.; Lognonne, P.; Mimoun, D.; Spohn, T.
 A Geophysics Environmental Package for the ExoMars Mission

14:30–14:45; EGU2007-A-08109; GI7/PS1.2-1TH30-005
Harri, A.-M.; Pellinen, R.; Uspensky, M.; Siili, T.; Linkin, V.; Lipatov, A.; Savijarvi, H.; Vorontsov, V.; Ivankov, A.
 METNET – atmospheric science network for Mars

14:45–15:00; EGU2007-A-10067; GI7/PS1.2-1TH30-006
Foing, B.H.; Hovland, S.; European Lunar Lander Working Group
 Lunar Polar Lander study

15:00–15:15; EGU2007-A-11544; GI7/PS1.2-1TH30-007
Waugh, L.; Draper, C.; Lee, C.; Richter, L.
 Locomotion Field Trials for a Mars Rover Testbed - Tenerife - 2006

15:15 END OF SESSION

Hydrological Sciences

HS7 Subsurface flow, solute transport, and energy processes: concepts, modelling, and observations

Convener: Elliot, T.
 Co-Convener(s): Zechner, E.
 Lecture Room 28 (B)
 Chairperson: N.N.

13:30–13:45; EGU2007-A-09792; HS7-1TH30-001
Berli, M.; Schäffer, B.; Müller, R.; Schulin, R.; Accorsi, M.L.; Or, D.
 Effect of stress on fluid-filled inclusions in elasto-plastic soils

13:45–14:00; EGU2007-A-01742; HS7-1TH30-002
Weihermüller, L.; Huisman, J.A.; Graf, A.; Herbst, M.; Vereecken, H.
 Multistep outflow experiments for the simultaneous determination of soil physical and CO₂ production parameters

14:00–14:15; EGU2007-A-10385; HS7-1TH30-003
van Schaik, N.L.M.; van Dam, J.C.; Hendriks, R.F.A.
 Determination of matrix and macropore flow characteristics (using tracer infiltration profiles and inverse modeling in SWAP)

14:15–14:30; EGU2007-A-10641; HS7-1TH30-004
Vogel, T.
 Modeling transport of contaminants in a transient preferential flow field

14:30–14:45; EGU2007-A-10373; HS7-1TH30-005
Widdowson, M.; Marr, L.; Novak, J.
 Mechanisms for phytoremediation of PAH compounds: A long-term field investigation (cancelled)

14:45–15:00; EGU2007-A-08383; HS7-1TH30-006
Oswald, S.; Balcke, G.; Meenken, S.
 Kinetic re-supply and degradation of oxygen: Modelling of pulsed gas injection

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-03000; HS7-1TH40-001
Craig, J.R.
 Extending the applicability of analytical contaminant transport models (solicited)

15:45–16:00; EGU2007-A-05514; HS7-1TH40-002
Tartakovsky, A.M.; Scheibe, T.D.; Tartakovsky, D.T.; Meakin, P.; Redden, G.D.
 Multiscale model for reactive transport and mineral precipitation in porous media

16:00–16:15; EGU2007-A-09257; HS7-1TH40-003
Müller, A.; Schmitz, G.H.; Edenhofer, J.
 Modelling advective transport with the exact-analytical solution of two-dimensional unconfined groundwater flow

16:15–16:30; EGU2007-A-06686; HS7-1TH40-004
Robinson, C.; Brovelli, A.; Barry, D. A.; Li, L.; Mao, X.
 Biodegradation of organic contaminants in a tidally-influenced coastal aquifer

16:30–16:45; EGU2007-A-07819; HS7-1TH40-005
Sigfusson, B.; Meharg, A.A.; Gislason, S.R.
 Arsenic speciation and transfer through basaltic glass

16:45–17:00; EGU2007-A-02024; HS7-1TH4O-006
Wissmeier, L.; Barry, D.A.; Phillips, I.; Croton, J.T.
 Hydro-geochemical modeling in an artificial substrate: The legacy of bauxite refining

17:00 END OF SESSION

HS9 Hydrogeophysics in subsurface hydrology

Convener: Vereecken, H.
 Co-Convener(s): Ferre, T., Yaramanci, U.
 Lecture Room 28 (B)
 Chairperson: N.N.

8:30–8:45; EGU2007-A-06867; HS9-1TH1O-001
Cassiani, G.; Deiana, R.; Kemna, A.
 Mass balance and anisotropy issues in the geophysical monitoring of controlled water injection experiments in the vadose zone. (solicited)

8:45–9:00; EGU2007-A-03693; HS9-1TH1O-002
 Cosenza, Ph.; **Ghorbani, A.;** Ruy, S.; Doussan, C.; Florsch, N.
 Spectral Induced Polarization for monitoring the water infiltration in soils

9:00–9:15; EGU2007-A-08192; HS9-1TH1O-003
Ippisch, O.; Bastian, P.; Samouëlian, A.; Vogel, H.-J.
 Hydraulic Parameter Estimation in Heterogeneous Porous Media

9:15–9:30; EGU2007-A-09366; HS9-1TH1O-004
Oberdörster, C.; Vanderborght, J.; Kemna, A.; Vereecken, H.
 Estimation of uncertainty in bulk soil electrical conductivity derived by Electrical Resistivity Tomography

9:30–9:45; EGU2007-A-09659; HS9-1TH1O-005
Strahser, M.; Iwanowski, K.; Rabbel, W.
 Vertical seismoelectric profiling - dependence on hydrogeological parameters

9:45–10:00; EGU2007-A-10609; HS9-1TH1O-006
Lambot, S.; Kooper, K.; Huisman, J.A.; Vereecken, H.; Slob, E.C.
 A robust method for identifying surface water content using ground-penetrating radar

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-01298; HS9-1TH2O-001
Maineult, A.; Strobach, E.; Renner, J.
 Observation of self-potential (SP) variations induced by periodic pumping tests.

10:45–11:00; EGU2007-A-01319; HS9-1TH2O-002
Brauchler, R.; Hu, R.; Vogt, T.; Butler Jr., J.J.; Ptak, T.; Sauter, M.
 In-situ determination of the spatial variability of hydraulic properties using hydraulic tomography with cross-hole slug tests at the test site Stegemühle, Germany

11:00–11:15; EGU2007-A-07547; HS9-1TH2O-003
Bou Ghannam, O.; Blum, P.; Grathwohl, P.
 Determination of the hydraulic conductivity using direct-push methods

11:15–11:30; EGU2007-A-07317; HS9-1TH2O-004
Bour, O.; Jacob, T.; Boudin, F.; Moreau, F.; Bayer, R.; Maia, M.; Caudal, J.-P.; Davy, P.; Durand, S.; Dauteuil, O.; The hydro-geodesic team
 A field experiment to monitor the gravimetric and geodetic changes during a large-scale pumping test in a crystalline aquifer

11:30–11:45; EGU2007-A-10960; HS9-1TH2O-005
Waring, C.; Stepanyants, Y.; Hankin, S.; Smith, C.; Airey, P.
 Measurement of Hydraulic Conductivity, Porosity and Lithology by Neutron Activation Borehole Logging at high spatial resolution increments

11:45–12:00; EGU2007-A-10668; HS9-1TH2O-006
 Tan, K.; Munday, T.; Fitzpatrick, A.; **Lawrie, K.**
 Combining high resolution LiDAR elevation model, airborne electromagnetic data and petrophysical results of drill cores to determine the salt budget of the Chowilla Floodplain, South Australia.

12:00 END OF SESSION

HS9 Hydrogeophysics in subsurface hydrology – Posters

Convener: Vereecken, H.
 Co-Convener(s): Ferre, T., Yaramanci, U.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 15:30–17:00
 Poster Area Hall A
 Chairperson: N.N.

A0184; EGU2007-A-00049; HS9-1TH4P-0184
Osman, S.; Metwaly, M.; Khalil, M.; Ragab, El.
 A hydrogeophysical study to estimate water seepage from northwestern Lake Nasser, Egypt

A0185; EGU2007-A-00108; HS9-1TH4P-0185
Soliman, M.; Hassaneen, A.; Mousa, S.; Ragab, El.; El-Gawad, A.
 Environmental and geophysical assessment of the ground and subsurface water resources of Ras El-Hekma area, northwestern coast of Egypt

A0186; EGU2007-A-00126; HS9-1TH4P-0186
Abdalla, M.; Abdel Rahman, M.; Alwasif, M.
 VES and TEM surveys to assess groundwater impingement at Luxor, Egypt

A0187; EGU2007-A-00128; HS9-1TH4P-0187
 Mekhemer, H.; Sultan, S.; **Abdalla, M.;** Santos, F.
 Integrated Geophysical Interpretation for groundwater potentiality at Wadi Ghubba, central Sinai, Egypt

A0188; EGU2007-A-00136; HS9-1TH4P-0188
 Khalil, M.; Abbas-Mohamed, A.; **Al-Sayed, A.**
 An integrated GPR and 2D electrical imaging study to estimate groundwater salinity

A0189; EGU2007-A-00762; HS9-1TH4P-0189
Abou Heleika, M.M.; Niesner, E.
 Configuration of the limestone groundwater aquifers in the middle part of Egypt by using electrical measurements

A0190; EGU2007-A-00855; HS9-1TH4P-0190
Goncalves, R.; Santos, F.
 2-D inversion of TDEM data

A0191; EGU2007-A-01409; HS9-1TH4P-0191
Kamkar-Rouhani, A.
 Mining problems caused by the presence of underground water in a mining site and possible solutions: An example from Iran

A0192; EGU2007-A-01411; HS9-1TH4P-0192

Kamkar-Rouhani, A.

Transitional layering effects on electrical resistivity measurements for detection of 3D contamination plumes in the subsurface

A0193; EGU2007-A-01544; HS9-1TH4P-0193

Szucs, P.; Madarasz, T.; Toth, A.; Nyari, Zs.; Neduczka, B.; Halmoczki, Sz.

Combination of Hydrogeophysical Methods and Transport Modeling to Assess Special Subsurface Contaminants at a Hungarian Test Site

A0194; EGU2007-A-01607; HS9-1TH4P-0194

Bänninger, D.; Wunderli, H.; Flühler, H.

Estimating soil moisture profiles along TDR rods

A0195; EGU2007-A-02240; HS9-1TH4P-0195

SCHNEIDER, S.; VANDERBORGHT, J.; KEMNA, A.; PESSEL, M.; COQUET, Y

Estimation of the unsaturated hydraulic soil properties from joint inversion of tension infiltrometer and ERT measurements: Numerical experiments

A0196; EGU2007-A-04078; HS9-1TH4P-0196

Ruellieu, S.; Bour, O.; Moreau, F.; Gapais, D.; Martelet, G

Characterization by gravity method of the geometry of a large-scale gently dipping permeable zone in the crystalline rock aquifer of Ploemeur (French Brittany)

A0197; EGU2007-A-04763; HS9-1TH4P-0197

Hong, N.M.; Tan, C.C.; Lin, S.T.; Tsay, T.S.

Uncertainty analysis of groundwater exchange at Boundaries in Taipei Basin

A0198; EGU2007-A-05082; HS9-1TH4P-0198

AL-Sayed, E.

Evaluation of Sea water intrusion using the Electrical Resistivity and Transient Electromagnetic survey at Fan of Wadi Feiran, Sinai, Egypt

A0199; EGU2007-A-05597; HS9-1TH4P-0199

Werban, U.; Reboulet, E.; Linder, S.; Marschall, K.; Paasche, H.; Hirsch, M.; Leven, C.; Dietrich, P.

Combination of geophysical and geotechnical Methods for the hydrogeological Characterisation of the near Surface

A0200; EGU2007-A-06090; HS9-1TH4P-0200

Join, J.; Savin, S.; Lamorille, L.; Robineau, R.

Hydrogeophysical survey in the regolith of a New Caledonia ultramafic massif

A0201; EGU2007-A-07616; HS9-1TH4P-0201

Villa, A.; **Brovelli, A.**; Cassiani, G.; Fusi, N.

Quantitative monitoring of moisture content changes using micro-CT imaging technique

A0202; EGU2007-A-08076; HS9-1TH4P-0202

Kobr, M.; Lukeš, J.; Procházka, M.; Mareš, S.; Urík, J.

Hydraulic properties of fractured rocks determined from fluid logging

A0203; EGU2007-A-09125; HS9-1TH4P-0203

Moreau, F.; Boudin, F.; Durand, S.; Bour, O.; Dauteuil, O.; Esnault, MF.; Morel, L.; Ferrand, A.; Bayer, R.; Maia, M.; Hydro-geodesy Team

Vertical ground deformation monitored during a large-scale pumping test in a crystalline aquifer: comparison of several geodetic measurements.

A0204; EGU2007-A-09131; HS9-1TH4P-0204

Savi, P.; Maio, I.A.; **Ferraris, S.**

Parametric study of TDR waveforms for Debye-type Dielectrics

A0205; EGU2007-A-09190; HS9-1TH4P-0205

Gerhards, H.; Wollschläger, U.; Schiwiek, P.; Roth, K.

Multi-Channel GPR for Rapid Simultaneous Estimation of Reflector Depth and Soil Water Content

A0206; EGU2007-A-09525; HS9-1TH4P-0206

Satriani, A.; Loperte, A.; Simoniello, T.; D'Emilio, M.; Belviso, C.; Lapenna, V.

A multidisciplinary approach for studying the forest reserve of Metapontum (southern Italy) affected by salt water intrusion phenomena.

A0207; EGU2007-A-09852; HS9-1TH4P-0207

Kneisel, C.; Müller, C.; Schneider, R.; Tressel, E.; Wintrich, S.

Soil moisture assessment within a retention ditch and a deep loosened soil using 2D electrical imaging

A0208; EGU2007-A-10342; HS9-1TH4P-0208

Kavanda, R.

Results of single and function inversion of resistivity data for hydrogeological application

HS12 Geothermal energy and brine transport – Posters

Convener: Blum, P.

Co-Convener(s): Kolditz, O.; Ackerer, P.; Sanchez-Vila, X.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 15:30–17:00

Poster Area Hall A

Chairperson: N.N.

A0209; EGU2007-A-07619; HS12-1TH4P-0209

El Soueidy, Ch.P.; Younes, A.; Ackerer, Ph.

Numerical simulations for the salt pool benchmark problem using the mixed hybrid and discontinuous finite element methods with locally varying time steps

A0210; EGU2007-A-00788; HS12-1TH4P-0210

Wessling, S.W.; Backers, T.B.

An approach to simulate coupled fracture propagation and fluid flow in fracture-matrix systems

A0211; EGU2007-A-09495; HS12-1TH4P-0211

Jorand, R.; Pechnig, R.; Mottaghy, D.; Koch, A.; Clauser, C. Determination of thermal and hydraulic Properties for different Lithologies of Southern Germany

A0212; EGU2007-A-07571; HS12-1TH4P-0212

Munoz, G.; Ritter, O.; Krings, T.

Magnetotelluric measurements in the vicinity of the Gross Schoenebeck geothermal site

A0213; EGU2007-A-05372; HS12-1TH4P-0213

Povarov, O.A.; Fedotov, S.A.; **Sobissevitch, A.L.**; Sugrobov, V.M.; Trukhin, Ju.P.; Utkin, I.S.; Utkina, L.I.

Studying of the possibility of recovery of thermal energy of the magmatic chamber of the Avachinsky volcano by means of deep wells

A0214; EGU2007-A-09661; HS12-1TH4P-0214

Rühaak, W.; Rath, V.; Clauser, C.

Modeling the impact of deep fault zones on the thermal regime in a sedimentary basin

A0215; EGU2007-A-09851; HS12-1TH4P-0215

Moebius, R.; Blum, P.

Depth- and facies-specific dependency of the well productivity in the karstic aquifer of the Upper Jurassic (Malm)

A0216; EGU2007-A-10090; HS12-1TH4P-0216

Barberi, F.; Carapezza, M. L.; Luigini, G.; Ranaldi, M.

CO₂ diffuse degassing and geothermal conditions in the area SW of Mts. Sabatini volcanic district, Central Italy

A0217; EGU2007-A-08211; HS12-1TH4P-0217
Krumbholz, M.; Burchardt, S.; Gudmundsson, A.
 Structure of active and extinct geothermal systems in Iceland

A0218; EGU2007-A-01040; HS12-1TH4P-0218
Yu, H-L; Christakos, G; Tartakovsky, D; Modis, K; Pantanopoulos, G
 Composite Stochastic Solution of a 3-D Geothermal Model i Nea Kessani (Greece)

A0219; EGU2007-A-00922; HS12-1TH4P-0219
Bergemann, M.; Khristoforova, N.
 Thermal regimes and hydrodynamics defines oil and gas potentials in the Volga region

A0220; EGU2007-A-08657; HS12-1TH4P-0220
Karaman, A; Dinç, A. N.
 Geophysical identification of a low-temperature hydrothermal system in Anzer glacial valley, İkizdere, Rize, Turkey

A0221; EGU2007-A-09493; HS12-1TH4P-0221
Rühaak, W.; Rath, V.; Wolf, A.; Clauser, C.
 Finite-Volume groundwater modeling with non-orthogonal grids, using a coordinate transformation method

HS23 Hydrological, chemical and biological processes in rivers and riparian zones (co-listed in BG & GM) – Posters

Convener: Krause, S.
 Co-Convener(s): Buytaert, W., Fleckenstein, J., Tetzlaff, D., Malcolm, I., Reeves, A.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 13:30–15:00
 Poster Area Hall A
 Chairperson: KRAUSE, S.; TETZLAFF, D.; BUYTAERT, W.; FLECKENSTEIN, J.; MALCOLM, I.

A0223; EGU2007-A-01330; HS23-1TH3P-0223
Chou, P.Y.; Wyseure, G.
 An innovative experiment for modelling hydraulic connectivity of hyporheic zone

A0224; EGU2007-A-01340; HS23-1TH3P-0224
Haregeweyn, N.; Poesen, J.; Nyssen, J.; Govers, G.; Verstraeten, G.; de Vente, J.; Deckers, J.; Moeyersons, J.
 Factors controlling sediment yield variability in the Northern Ethiopia

A0225; EGU2007-A-01820; HS23-1TH3P-0225
Vasyukova, E. V.; Pokrovsky, O. S.; Viers, J.; Dupre, B.; Schott, J.
 Speciation and migration of trace elements in surficial, organic and Fe-rich fluids of boreal zone

A0226; EGU2007-A-02711; HS23-1TH3P-0226
Mohammadi, A.; Mohammadi, M.; Mosaedi, A.; Alaghamand, S.
 Assessment of water quality trend in some selected hydro-metric stations (Atrak River, Iran)

A0227; EGU2007-A-07394; HS23-1TH3P-0227
Ghadouani, A.; Derham, T.; Turnbull, A.; Gyorffy, R.
 Exploring some ecological engineering solutions for the rehabilitation of acidic mine lakes in Australia

A0228; EGU2007-A-08442; HS23-1TH3P-0228
Gabriel, O.; Kalettka, T.; Balla, D.
 Phosphorus fluxes in a poldered temporary inundated peatland- from soil to surface water

A0229; EGU2007-A-09021; HS23-1TH3P-0229
Zolezzi, G.; Bellin, A.; Siviglia, A.; Bruno, M.C.; Maiolini, B.; Dell'Acqua, N.
 Analysis of flow regime alteration in the Adige river: standard and novel approaches

A0230; EGU2007-A-09184; HS23-1TH3P-0230
Curie, F.; Ducharne, A.; Bendjoudi, H.; Billen, G.; Viennot, P.
 Assessment of the factors controlling nitrate retention in riparian zones in the Seine river basin

A0231; EGU2007-A-10968; HS23-1TH3P-0231
Yan, J.; Liu, Y.; Jiang, N. Q.; Li, H. C.; Sun, D. P.
 The primary research on the invisible water resources

A0232; EGU2007-A-11177; HS23-1TH3P-0232
TOURNEBIZE, J; VINCENT, B; BIRGAND, F; PAINAUT, F; MOLLE, P; GRIL, JJ; NEDELEC, Y
 Constructed wetland to mitigate the impacts of subsurface drained watershed

A0233; EGU2007-A-11461; HS23-1TH3P-0233
Langan, S.J.; Johnston, L.; Donaghy, M.; Youngson, A.F.
 The potential impact of climate change on the hydrothermal regime of

A0234; EGU2007-A-01771; HS23-1TH3P-0234
Brown, L.E.; Hannah, D.M.; Milner, A.M.
 Vulnerability of alpine stream biodiversity to shrinking glaciers and snowpacks

A0235; EGU2007-A-01859; HS23-1TH3P-0235
Markovics, R.; Ogrinc, N.; Kanduè, T.; Walter, L.
 Chemical dynamics of the Sava riverine system - A stable isotopic approach

A0236; EGU2007-A-02099; HS23-1TH3P-0236
Pérez, M.A.P.; Amorim, M.A.; Moreira-Turcq, P.
 Biogeochemistry of organic matter in an Amazonian floodplain lake, Lake of Curuai, Brazil

A0237; EGU2007-A-02915; HS23-1TH3P-0237
Lapworth, D.J; Gooddy, DC; Abesser, C; Allen, D
 Investigating groundwater-surface water processes in a Chalk catchment of South East England using fluorescence properties of dissolved organic matter

A0238; EGU2007-A-01587; HS23-1TH3P-0238
Repnik, P.; Bizjak, A.; Mikoš, M.
 A Contribution to Hydromorphological Typification of Slovenian Streams

A0239; EGU2007-A-03778; HS23-1TH3P-0239
Schmidt, C.; Bayer Raich, M.; Schirmer, M.
 Quantification of water fluxes at the stream-groundwater interface using mapped streambed temperatures

A0240; EGU2007-A-04087; HS23-1TH3P-0240
Krause, S.; Heathwaite, A. L.; Binley, A.; Kaeser, D.; Smith, J.
 The impact of structural streambed heterogeneity on groundwater – surface water exchange fluxes and nitrogen metabolism within the hyporheic zone

A0241; EGU2007-A-05896; HS23-1TH3P-0241
Horsnell, T.K.; Reynolds, D.A.
 Modeling the impact of climate change on macro versus micro hydrology on lake systems

A0242; EGU2007-A-06002; HS23-1TH3P-0242
Vericat, D; Batalla, R; Gibbins, C; Gomez, C
 Hydraulic and sedimentary influences on the catastrophic drift of stream invertebrates

A0243; EGU2007-A-08548; HS23-1TH3P-0243
Meynendonckx, J.; Dejonghe, W.; Joris, I.; Vanbroekhoven, K.; Seuntjens, P.
 (Im)mobilization of heavy metals in the interface between groundwater and surface water: site characterization

A0244; EGU2007-A-09180; HS23-1TH3P-0244
Darsow, A.; Kralik, M.; Hofmann, T.
 Implementation of the EU-Waterframe Directive-Hydrochemistry in the Marchfeld Region

A0245; EGU2007-A-09995; HS23-1TH3P-0245
Ferraresi, M.; Telò, R.
 Hydrodynamic analysis of riparian areas in flood protection design: the River Taro case study.

A0246; EGU2007-A-10232; HS23-1TH3P-0246
Figueiredo da Silva, J.; Duck, R. W.
 Identification of the effects of recent tidal regime changes in intertidal areas of the Ria de Aveiro, Portugal, using airborne and surface observations

A0247; EGU2007-A-10550; HS23-1TH3P-0247
Müller Schmied, H.; Helmschrot, J.; Vogt, M.; Flügel, W.-A.
 Hydro-ecological studies in cascading, riparian wetland systems in the Thuringian Forest, Germany

A0248; EGU2007-A-09052; HS23-1TH3P-0248
Frei, S.; Kollet, S.; Maxwell, R.M.; Fleckenstein, J.H.
 Using a parallel Surface-Subsurface Flow Model to assess the Effects of geologic Heterogeneity on River-Aquifer Exchange

A0250; EGU2007-A-11462; HS23-1TH3P-0250
Langan, S.J.
 Improving Water quality and Habitat Diversity in the Tarland Burn

HS25 Lakes and inland seas under anthropogenic impact and climate change (co-listed in CL & ERE)

Convener: Zavialov, P.
 Co-Convener(s): Friedrich, J.
 Lecture Room 30 (C)
 Chairperson: N.N.

8:30–8:45; EGU2007-A-11079; HS25-1TH1O-001
Artoli, Y.; Friedrich, J.; Vermaat, J.; Wulff, F.; Gilbert, A.; Humborg, C.; Palmeri, L.
 Nutrient budgets for European seas: a measure of the effectiveness of nutrient reduction policies

8:45–9:00; EGU2007-A-11085; HS25-1TH1O-002
 Gilbert, A.; Artoli, Y.; Daunys, D.; Friedrich, J.; Humborg, Ch.; Lowe, Ch.; McQuatters-Gallop, A.; Mee, L.D.; Olenin, S.; Palmeri, L.; ELME-WP3
 Estimation of future nutrient enrichment in Europe's regional seas

9:00–9:15; EGU2007-A-04384; HS25-1TH1O-003
Stevens, T.; Mee, L.; Hingston, S
 Mapping benthic communities in the Black Sea using a towed video array

9:15–9:30; EGU2007-A-04728; HS25-1TH1O-004
Amrhein, C.; Reese, B.K.; Anderson, M.A.
 Biogeochemistry of the Salton Sea, California

9:30–9:45; EGU2007-A-10640; HS25-1TH1O-005
Chalupova, D.; Jansky, B.
 The Elbe River fluvial lakes - water and sediment quality as a result of anthropogenic activities

9:45–10:00; EGU2007-A-05511; HS25-1TH1O-006
Zagar, D.; Rajar, R.; Horvat, M.; Kotnik, J.; Cetina, M.
 Natural and anthropogenic sources of mercury in the Mediterranean

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-01877; HS25-1TH2O-001
Friedrich, J.
 Uranium contamination of the Aral Sea

10:45–11:15; EGU2007-A-04806; HS25-1TH2O-002
Stanichny, S.; Burduygov, V.; Stanichnaya, R.; Soloviev, D.
 Satellite monitoring of the processes in the Aral and Caspian Seas (solicited)

11:15–11:30; EGU2007-A-00213; HS25-1TH2O-003
Zavialov, P.
 Ongoing Changes of the Aral Sea's Physical Regime as Observed in Recent Field Campaigns (2002-2006)

11:30–11:45; EGU2007-A-09963; HS25-1TH2O-004
Shibuo, Y.; Jarsjö, J.; Destouni, G
 Hydrologic responses to climatic changes and irrigation expansion within the Aral Sea basin

11:45–12:00; EGU2007-A-05301; HS25-1TH2O-005
Elguindi, N.; Giorgi, F.
 Projected changes in the Caspian Sea level for the 21st century based on AOGCM and RCM simulations

12:00–12:15; EGU2007-A-07568; HS25-1TH2O-006
Turunçoglu, U. U.; Dalfes, H. N.
 A three-dimensional circulation model for Lake Van

12:15–12:30; EGU2007-A-06273; HS25-1TH2O-007
 von Rohden, C.; Ilmberger, J.
 Hydrology and vertical Transport of a meromictic Mining Lake traced with SF₆ on the Background Level

12:30 END OF SESSION

HS25 Lakes and inland seas under anthropogenic impact and climate change (co-listed in CL & ERE) – Posters

Convener: Zavialov, P.
 Co-Convener(s): Friedrich, J.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 13:30–15:00
 Poster Area Hall A
 Chairperson: N.N.

A0251; EGU2007-A-00057; HS25-1TH3P-0251
Gourgue, O.; Deleersnijder, E.; White, L.
 Renewal of epilimnion water in Lake Tanganyika

A0252; EGU2007-A-00214; HS25-1TH3P-0252
Zavialov, P.; Pelevin, V.; Rostovtseva, V.; Grabovskiy, A.; Khlebnikov, D.
 Rivers of the Russian Black Sea Coast: Can their Impact on the Sea be Quantified?

A0253; EGU2007-A-00556; HS25-1TH3P-0253
Pelevin, V.; Khlebnikov, D.; Karlsen, G.; Rostovtseva, V.; Hapter, R.
 Ultraviolet laser fluorometry of Gdansk Bay waters (Baltic sea)

A0254; EGU2007-A-00722; HS25-1TH3P-0254
Mirabdullayev, I.; Abdullayeva, L.; Musaev, A.; Zholdasova, I.; Mustafaeva, Z.; Jumaniezova, N.
 Sharp fluctuations in ecosystem parameters of the East Big Aral

A0255; EGU2007-A-00865; HS25-1TH3P-0255
Veleva, B.; Valkov, N.; Iordanova, L.
 One year experimental investigation of the atmospheric deposition in the Varna region-Black Sea coastal zone

A0256; EGU2007-A-01572; HS25-1TH3P-0256
Fagel, N.; Gilson, D.; Mattielli, N.; Bertrand, S.; Lepoint, G.; Chirinos, L.; Urrutia, R.
 Tracking of anthropogenic influences in the last centuries in Southern Chilean lakes: Organic (C/N, d13C) and Pb isotope geochemical signatures of Laguna Chica de San Pedro (36.4°S) and Lago Puyehue (40.7°S) sediments

A0257; EGU2007-A-02849; HS25-1TH3P-0257
Perroud, M.
 Comparison of three 1D lake models for reproducing the vertical distribution of temperature in the deep pre-alpine Lake Geneva, Switzerland.

A0258; EGU2007-A-03061; HS25-1TH3P-0258
Melentyev, V.; **Chernook, V.**
 Ice atlas of the parameters valid for sustainable development and marine animals' welfare:

A0259; EGU2007-A-03192; HS25-1TH3P-0259
Burak, S.; Alpar, B.; Ünlü, S.; Doğan, E.; Gazioğlu, C.; Öztürk, K.; Mat, H.; Okdemir, S.; Yaşarol, P.
 Industrial water use and related environmental concerns in the Gebze Industrial Area

A0260; EGU2007-A-03717; HS25-1TH3P-0260
Doğan, E.; Burak, S.; Ünlü, S.
 Ecological consequences of hot-spots in the Marmara Sea

A0261; EGU2007-A-03882; HS25-1TH3P-0261
Ozturk, K.; Unlu, S.; Alpar, B.; Vardar, D.
 Hydrocarbon pollution in sediments from Lake Iznik (Turkey), determined by fluorescence technique

A0262; EGU2007-A-04016; HS25-1TH3P-0262
Unlu, S.
 Chemical fingerprinting techniques following the Haydarpasa Port pollution; Sea of Marmara, Turkey

A0263; EGU2007-A-04199; HS25-1TH3P-0263
Kashulin, N.A.; **Shumilov, O.I.;** Kasatkina, E.A.; Vandysh, O.I.; Sandimirov, S.S.
 Interannual dynamic of zooplankton in Lake Imandra (Kola Peninsula) as influenced by heliophysical and anthropogenic factors

A0264; EGU2007-A-04946; HS25-1TH3P-0264
Laptev, G.V.
 Proxy-reconstruction of SST anomaly in the Black Sea for the last 2000 year using biogenic carbonate records in the deep-sea laminated sediment

A0265; EGU2007-A-05279; HS25-1TH3P-0265
Intsiful, J.; Boateng, A.; Amisigo, B.
 Impacts of climate change on the Volta Lake of Ghana, and its implications on socio-economic development of communities of the Volta Basin of West Africa

A0266; EGU2007-A-05507; HS25-1TH3P-0266
Delavar, M.; Morid, S.; Shafieefar, M.; Moghaddamnia, A.; Cluckie, I.D.
 Simulation and Analyses of Uncertainty and Sensitivity of the Changes of the Urmia Lake Level to Water Budget Components

A0267; EGU2007-A-05628; HS25-1TH3P-0267
Gritsenko, V.; Chubarenko, B.; Chubarenko, I.; Kravtsov, V.; Chugaevich, V.; **Kozhevnikova, E.;** Sapozhnikova, E.; Demchenko, N.; Chibisova, N.
 Complex researches of a coastal waters condition of the Kaliningrad area in the summer - autumn 2006 near the cape Taran and the Vistula spit.

A0268; EGU2007-A-06187; HS25-1TH3P-0268
Mazurkewitz, E.; Jacob, D.
 The effects of climate change on water availability in the Aral Sea region

A0269; EGU2007-A-06203; HS25-1TH3P-0269
NAITHANI, J.; PLISNIER, P.D.; DELEERSNIJDER, E.
 A simple model of the eco-hydrodynamics of the epilimnion of Lake Tanganyika

A0270; EGU2007-A-07909; HS25-1TH3P-0270
Boehrer, B.; Schultze, M.
 Climate sensitive circulation of lakes

A0271; EGU2007-A-08212; HS25-1TH3P-0271
Kalitina, E.; Buzoleva, L.
 Influence of the chronic anthropogenic pollution of the superficial sea-waters on microbe communities structure and state

A0272; EGU2007-A-08422; HS25-1TH3P-0272
Olaka, L.
 Hydrology and Land Cover Changes of The Nyando River Catchment, Kenya

A0273; EGU2007-A-10052; HS25-1TH3P-0273
Draganits, E.; Zámolyi, A.; Gier, S.; Hodits, B.; Exner, U.; Janda, C.; Grasmann, B.
 Neusiedlersee/Fertő Tó area (Austria/Hungary): minimum estimates of former lake levels

A0274; EGU2007-A-10273; HS25-1TH3P-0274
Zlinszky, A.; **Molnár, G.;** Horváth, A.; Hámori, Z.; Székely, B.
 Mapping of lacustrine sediment thickness and water depth of the Lake Balaton

A0275; EGU2007-A-10308; HS25-1TH3P-0275
Sauer, T.
 Agriculture and aquatic Biodiversity - Impacts of Land-use Changes on the Suitability of European Freshwater Lakes for Conservation

A0276; EGU2007-A-10500; HS25-1TH3P-0276
Kavusan, G.; **Orhan, A.**
 Geology and invert sugar distribution in peatland of modern Karamik Lake-Afyon/Turkey

A0277; EGU2007-A-10629; HS25-1TH3P-0277
Alekseeva, I.; Jarsjö, J.; Schrum, C.; Destouni, G.
 Reconstruction of historic changes of the Aral Sea water budget and sea-groundwater interactions by a coupled 3D sea-ice-groundwater model

HS28 Catchment structure and connectivity (co-listed in GM, BG & SSS)

Convener: Bogaart, P.
 Co-Convener(s): Kirkby, M., Esteves, M., Michaelides, K., Tetzlaff, D., Zehe, E.
 Lecture Room 31
 Chairperson: BOGAART, P. W.

13:30-13:45; EGU2007-A-02807; HS28-1TH3O-001
Kirkby, M.J.; Bracken, L.J.
 Saturated contributing areas and connectivity in semi-arid and humid environments

13:45–14:00; EGU2007-A-02655; HS28-1TH3O-002
Chiffard, P.; Zepp, H.
 Identification of hillslope hydrological process units -
 Experimental studies on hillslope runoff generation in a
 small catchment in Germany

14:00–14:15; EGU2007-A-09552; HS28-1TH3O-003
Lin, H.; Zhou, X.
 Subsurface Network Structure and Soil Hydrologic Re-
 sponse Groups at the Shale Hills Catchment, USA

14:15–14:30; EGU2007-A-08067; HS28-1TH3O-004
Moussa, R.; Chahinian, N.
 Modelling of the GIUH hydrologic response function using
 morphometric properties of channel network

14:30–14:45; EGU2007-A-00819; HS28-1TH3O-005
Ghesquiere, J.; Moussa, R.
 Identification of dynamic overbank flow-paths in farmed
 catchments and effect on surface transfer function

14:45–15:00; EGU2007-A-01831; HS28-1TH3O-006
Croke, J.; Purvis-Smith, D.; Thompson, C.; Amos, K.
 Connectivity and the affect of valley constrictions on sedi-
 ment delivery in the Fitzroy River Basin, Australia.

15:00 COFFEE BREAK

Chairperson: KIRKBY, M.J.

15:30–15:45; EGU2007-A-08510; HS28-1TH4O-001
Jansen, J.D.; Nanson, G.C.
 Why rivers anabranched: a case of inbank-overbank connec-
 tivity? (cancelled)

15:45–16:00; EGU2007-A-07434; HS28-1TH4O-002
Lane, S.N.; Burt, T.P.; Dixon, J.; Dugdale, L.J.; Heath-
 waite, A.L.; Maltby, A.; Reaney, S.
 Demonstration of the mediation by surface hydrological
 connectivity of the influence of landscape factors on in-
 stream ecology

16:00–16:15; EGU2007-A-04906; HS28-1TH4O-003
Tetzlaff, D.; Soulsby, C.; Bacon, P.J.; Youngson, A.F.;
 Gibbins, C.; Malcolm, I.A.
 Hydrological connectivity between landscapes and river-
 scapes: influences on fish migration between different
 habitats

16:15–16:30; EGU2007-A-11413; HS28-1TH4O-004
Bogaart, P. W.; Troch, P. A.
 Catchment Architecture – An Overview

16:30–16:45; EGU2007-A-10424; HS28-1TH4O-005
Zehe, E.; Blöschl, G.
 Preferential flow, connectivity and Fermats principle: a new
 perspective on environmental flow

16:45–17:00; EGU2007-A-08971; HS28-1TH4O-006
Sivapalan, M.; Schaeffli, B.; Harman, C.
 Behavioural modelling: a new theoretical framework for
 hydrological prediction

17:00 END OF SESSION

HS29 Objective and process-based catchment classifica- tion as a tool for predictions in ungauged basins

Convener: Claps, P.
 Co-Convener(s): Aryal, S., Woods, R., Castellarin, A.,
 Troch, P., Toth, E.
 Lecture Room 31
 Chairperson: N.N.

8:30–8:45; EGU2007-A-02664; HS29-1TH1O-001
Aronica, G.T.; Fabio, P.; Candela, A.; Santoro, M.
 Hydroclimatological characterisation of extreme events in
 Sicilian region finalised to describe regional hydrological
 patterns and to predict flood regime in ungauged catchments.

8:45–9:00; EGU2007-A-04556; HS29-1TH1O-002
Merz, R.; Blöschl, G.
 Austrian Flood Typology

9:00–9:15; EGU2007-A-09443; HS29-1TH1O-003
Schaeffli, B.; Zehe, E.; Sivapalan, M.
 Catchment classification based on spectral signatures

9:15–9:30; EGU2007-A-07873; HS29-1TH1O-004
Skjøien, J. O.; Blöschl, G.
 Geostatistical estimation of runoff time series

9:30–9:45; EGU2007-A-07331; HS29-1TH1O-005
Dawson, C.W.; Abrahart, R.J.
 The provision of an online neural network system for flood
 estimation in ungauged catchments

9:45–10:00; EGU2007-A-11364; HS29-1TH1O-006
Toth, E.; Brath, A.
 Catchment classification using unsupervised neural networks

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-02214; HS29-1TH2O-001
Samaniego, L.; Bárdossy, A.
 Catchment characterization based on runoff copulas (so-
 licited)

10:45–11:00; EGU2007-A-05264; HS29-1TH2O-002
Leblois, E.; Engeland, K.; Gottschalk, L.; Braud, I.; De-
 hotin, J.
 Prediction in ungauged basins : one piece in the hydrological
 puzzle. (solicited)

11:00–11:15; EGU2007-A-00566; HS29-1TH2O-003
Allamano, P.; Claps, P.; Laio, F.
 An analytical model of the effects of catchment hypsography
 on the flood frequency distribution

11:15–11:30; EGU2007-A-10355; HS29-1TH2O-004
Velasco-Forero, C.; Quintero, F.; Olvera, M.; Corral, C.;
 Sempere-Torres, D.
 Parameterisation of a distributed hydrological model for
 application in ungauged basins

11:30–11:45; EGU2007-A-10532; HS29-1TH2O-005
Bogaart, P.W.; Troch, P.A.; Lyon, S.W.
 Towards a classification of catchment structure and hydro-
 logical response

11:45–12:00; EGU2007-A-05456; HS29-1TH2O-006
Kling, H.; Nachtnebel, H.P.
 A method for the regional estimation of runoff separation
 parameters

12:00 END OF SESSION

HS29 Objective and process-based catchment classification as a tool for predictions in ungauged basins – Posters

Convener: Claps, P.

Co-Convener(s): Aryal, S., Woods, R., Castellarin, A., Troch, P., Toth, E.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 13:30–15:00

Poster Area Hall A

Chairperson: N.N.

A0278; EGU2007-A-01985; HS29-1TH3P-0278

He, Y.; Bárdossy, A.

Application of a non-parametric regionalization technique to a rainfall runoff model

A0279; EGU2007-A-10071; HS29-1TH3P-0279

Iacobellis, V.; Gigante, V.; Portoghese, I.

Evaluation of flow duration curves with assigned return period in heterogeneous basins of Southern Italy

A0280; EGU2007-A-09904; HS29-1TH3P-0280

Gioia, A.; Iacobellis, V.; Manfreda, S.; Fiorentino, M.

Identification of characteristic basin descriptors for flood frequency curves behaviour

A0281; EGU2007-A-10651; HS29-1TH3P-0281

Castellarin, A.; Brath, A.

Regional predictions in ungauged basins through physiological space-based interpolation

A0282; EGU2007-A-03251; HS29-1TH3P-0282

Mediero, L.; Jiménez, A.

Regional analysis for frequency estimation of annual flood peaks in ungauged basins of Spain

A0283; EGU2007-A-09356; HS29-1TH3P-0283

Laguardia, G.; Plebani, F.; Claps, P.

Assessment of climate and vegetation indices as basin-scale water balance descriptors.

A0284; EGU2007-A-02303; HS29-1TH3P-0284

Pfennig, B.; Wolf, M.

Delineating of topographic-based process entities for J2000 using SRTM elevation data for Prediction of Ungauged Basins (PUB) in regions with different landscape characterisations

A0285; EGU2007-A-03827; HS29-1TH3P-0285

Dunn, S.M.; Tetzlaff, D.; Soulsby, C.; Waldron, S.; Malcolm, I.A.

From perceptual representation to numerical model: quantifying the influence of spatial information carriers in a catchment model

A0286; EGU2007-A-08048; HS29-1TH3P-0286

Rigon, R.; Antonello, A.; Bellin, A.; Bernabè, M.; Brotto, M.; Endrizzi, E.; Franceschi, S.; Ghesla, E.; Giacomelli, D.; Majone, B.

A component based model for estimating the hydrological budgets of river Adige

A0287; EGU2007-A-07889; HS29-1TH3P-0287

a. Recking, a. R.; p. Frey, p.F.; a.Paquier, a.P.

A conceptual model for gravel mean bed slope and bed load fluctuations

A0288; EGU2007-A-10797; HS29-1TH3P-0288

Guida, D.; Cestari, A.; Lanzara, R.; Siervo, V.

Hydrogeomorphological units at regional, basin and watershed scale from automated land-system recognition: GIS-based experiences in Campania Region (Southern Italy).

A0289; EGU2007-A-06313; HS29-1TH3P-0289

Martina, M.L.V.; Selker, J.; Rupp, D.; Wright, M.; Hagerty, R.; Nolin, A.; McDonnell, J.J.; Grant, G.

A strategy for identification of areas of consistent hydrologic character by means of dimensionless numbers

A0290; EGU2007-A-11638; HS29-1TH3P-0290

Ramanathan, A.; Sharma, P.; Jose, P.G.

Discharge variations in Chhota Darra, the melt water stream from Chhota Shigri Glacier, Himachal Pradesh, India

A0291; EGU2007-A-01929; HS29-1TH3P-0291

Vermooten, J.S.A.; Griffioen, J.; Kukuric, N.; Vasak, L.; Buma, J.T.

Transferring knowledge on water stress from well-monitored to ungauged drainage sub-basins

A0292; EGU2007-A-05061; HS29-1TH3P-0292

Seeger, M.; Seeling, S.; Engels, B.

Seasonal and spatial response patterns of catchment runoff in a low mountain range in Central Europe

A0293; EGU2007-A-02959; HS29-1TH3P-0293

Ahipathy, M.V.

Rainwater Harvesting

A0294; EGU2007-A-11011; HS29-1TH3P-0294

Bruni, G.; Pujol Reig, L.; Ortiz, E.; Cifres, E.; **García-Bartual, R.**

A practical flood warning system based on rainfall threshold in ungauged basins

HS36 Hydrological extremes: controls, spatial & temporal variability and regional patterns

Convener: Laaha, G.

Co-Convener(s): Castellarin, A., Szolgay, J., Schaefli, B., Tallaksen, L.

Lecture Room 30 (C)

Chairperson: HISDAL, H.

13:30–13:45; EGU2007-A-06746; HS36-1TH3O-001

Tallaksen, L.M.; Hisdal, H.; Lanen, H.A.J

Space-time modelling of catchment specific drought characteristics

13:45–14:00; EGU2007-A-04149; HS36-1TH3O-002

Zappa, M.; Kan, C.

Extreme heat and runoff extremes in the Swiss Alps

14:00–14:15; EGU2007-A-00118; HS36-1TH3O-003

Nkemdirim, L.

Risk assesment in a new drought environment

14:15–14:30; EGU2007-A-07015; HS36-1TH3O-004

Laaha, G.; Skoien, J.; Blöschl, G.

A comparison of Top-kriging and regional regression for low flow regionalisation

14:30–15:00; EGU2007-A-00908; HS36-1TH3O-005

Kroll, C

Low streamflow prediction at ungaged river sites: how best to use a small quantity of streamflow data (solicited)

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–16:00; EGU2007-A-11433; HS36-1TH4O-001

Bárdossy, A.

Investigation of the simultaneous occurrences of floods in different catchments (solicited)

16:00–16:15; EGU2007-A-08531; HS36-1TH4O-002

Schaeffli, B.; Maraun, D.

What drives high flow events in the Swiss Alps? On the use of wavelet spectra to analyze observed and simulated extreme events

16:15–16:30; EGU2007-A-01731; HS36-1TH4O-003

Panagoulia, D

Artificial Neural Networks and high and low flows in various climate regimes

16:30–16:45; EGU2007-A-09810; HS36-1TH4O-004

Bouwer, L.M.; Aerts, J.

Atmospheric circulation and peak river discharges in Europe

16:45–17:00; EGU2007-A-10019; HS36-1TH4O-005

Mezghani, A.; Hingray, B.; Schaeffli, B.

Hydrological scenarios under present climate situation in mountainous regions - Application to the upper Rhone, Wallis canton - Switzerland.

17:00–17:15; EGU2007-A-05431; HS36-1TH4O-006

Naveau, P.; Guillou, A.; Cooley, D.; Diebolt, J.

Measuring Spatial Dependence amongst Precipitation Maxima

17:15–17:30; EGU2007-A-10999; HS36-1TH4O-007

Cifres, E.; Ortiz, E.; García-Bartual, R.

Orographical and stochastic storm transposition for estimation of large return period floods.

17:30 END OF SESSION

HS42 Integrated water resources assessment, with special focus on developing countries – Posters

Convener: van der Zaag, P.

Co-Convener(s): Uhlenbrook, S., Rosbjerg, D., van de Giesen, N.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 13:30–15:00

Poster Area Hall A

Chairperson: VAN DER ZAAG, P.

A0295; EGU2007-A-00486; HS42-1TH3P-0295

Kimwaga, R.J.

Assessment of Potentials and Constraints to the Implementation of Integrated Water Resources Management (IWRM) in East Africa

A0296; EGU2007-A-01773; HS42-1TH3P-0296

Korneev, VK; Stankevich, AS

Cooperation between Russian Federation, Republic of Belarus and Ukraine in the field of transboundary water monitoring and integrated water resources assessment in the Dnepr River Basin

A0297; EGU2007-A-02116; HS42-1TH3P-0297

Sabetraftar, A.;omid, M.

Saline, brackish and non-conventional water resources potentials and capacities in Iran

A0298; EGU2007-A-02532; HS42-1TH3P-0298

Kommenic, V.; Ahlers, R.; van der Zaag, P.

Application of Water Poverty Index on Decision Making: Banja Luka Drinking Water Treatment Plant Case Study

A0299; EGU2007-A-02641; HS42-1TH3P-0299

Fazlur-Rahman, Fazal

Ownership and management of irrigation water in the eastern Hindu Kush: a study of Mehlp valley, Chitral, Northern Pakistan

A0300; EGU2007-A-03325; HS42-1TH3P-0300

Jachner, S.; Gerten, D.; Rohwer, J.; Bondeau, A.

How much water is used in global irrigated and rainfed agriculture?

A0301; EGU2007-A-03596; HS42-1TH3P-0301

Barthel, R.; Jagelke, J.; Sonneveld, B.; Gaiser, T.; Printz, A.; Götzinger, G.

Integrated Assessment of Groundwater Resources in the Ouémé Basin, Benin, West Africa

A0302; EGU2007-A-04052; HS42-1TH3P-0302

Harum (1), T.; Ruch (1), Ch.; Saccon (1), P.; Calasans Rego (2), N.; **De Paula (2), F.;** The ECOMAN team

Impact of land use changes on the water cycle – hydrological modelling in a subtropical catchment area (Bahia, Brazil)

A0303; EGU2007-A-04708; HS42-1TH3P-0303

Yutsis, V.; de León Gómez, H.; Masuch Oesterreich, D.; Izaguirre Valdez, F.; Garza Treviño, P.

Water balance of Cerro Prieto dam: hydrological monitoring and geophysical modeling

A0304; EGU2007-A-04817; HS42-1TH3P-0304

Elkashouty, M.; **Elsayed, E.**

Groundwater modeling of Nubian sandstone aquifer, Darb El Arbacin area, Western Desert, Egypt

A0305; EGU2007-A-05212; HS42-1TH3P-0305

Winsemius, H.C.; Savenije, H.H.G; Bastiaanssen, W.M.G

Modelling of an ungauged basin by means of remotely sensed rainfall and evaporation

A0306; EGU2007-A-05387; HS42-1TH3P-0306

Annor, F.O.; van de Giesen, N.; Liebe, J.; van de Zaag, P.; Tilmant, A.; Odai, S.N.

Delineation of small reservoirs using radar imagery in a semi-arid environment: A case study in the Upper East Region of Ghana

A0307; EGU2007-A-05601; HS42-1TH3P-0307

Verma, S.; Van der Zaag, P.

Virtual water trade and India's water future 2050

A0308; EGU2007-A-06008; HS42-1TH3P-0308

Orient Quilis, R; **Hoogmoed, M;** Ertsen, MW; de Vries, A; Foppen, JW; Hut, R

Modeling hydrological processes of sand-storage dams on different scales

A0309; EGU2007-A-06518; HS42-1TH3P-0309

Buytaert, W.; De Bièvre, B

Securing water supply in the tropical Andes

A0310; EGU2007-A-07962; HS42-1TH3P-0310

Mdemu, M.; Rodgers, C.; Vlek, P.

Water productivity (WP) in reservoir irrigated schemes in the Upper East Region (UER) of Ghana

A0311; EGU2007-A-09490; HS42-1TH3P-0311

Brandimarte, L.; Brath, A.; Castellarin, A.; Di Baldassarre, G.; Arizaga, E.; Fedeli, E.

Institutional capacity-building (ICB): an international co-operation initiative for the water resources management in Haiti and the Dominican Republic

A0312; EGU2007-A-11569; HS42-1TH3P-0312

Trelles Jasso, A.

Dynamic and distributed hydrologic models of the Balsas river basin for decision support in IWRM

HS43 Instruments for integrated and transboundary water resources management – Posters

Convener: Schumann, A.
Co-Convener(s): Savenije, H., McCulloch, C., Fohrer, N., de Jong, C., Meire, P., Lakuvich, L.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 13:30–15:00
Poster Area Hall A
Chairperson: N.N.

A0313; EGU2007-A-00162; HS43-1TH3P-0313
Chubarenko, B.; Domnin, D.
International and national shared watersheds in the South-Eastern Baltic: spatially-administrative analysis for water management

A0314; EGU2007-A-00155; HS43-1TH3P-0314
Mavlyanov, P.N.
Transboundary floods in the territories of Fergana valley of Uzbekistan

A0315; EGU2007-A-00401; HS43-1TH3P-0315
Mavlyanov, Gani
Superficial drain from takirs of Ustyurt plateau as a source for storage of drinking water

A0316; EGU2007-A-01019; HS43-1TH3P-0316
Tsiklauri, I.
Instruments for integrated and transboundary watershed management in Georgia (cancelled)

A0317; EGU2007-A-02082; HS43-1TH3P-0317
FENZL, N.
Integrated and Sustainable Management of Transboundary Water Resources of the Amazon River Basin

A0318; EGU2007-A-09045; HS43-1TH3P-0318
Markovic, S.B.; Svircev, Z.; Krstic, S.; Plavska, J.; Gaal, F.F.
Water resources of the border regions of Vojvodina Province, Serbia, in the scope of WFD implementation

A0319; EGU2007-A-01234; HS43-1TH3P-0319
van Ast, J.A.
Institutionalization of new Water Management Approaches

A0320; EGU2007-A-10862; HS43-1TH3P-0320
Masson, E.
Is post-crisis period an opportunity to enhance decision making and implement IWRM at basin scale?

A0321; EGU2007-A-03687; HS43-1TH3P-0321
Macleod, CJA; Scholefield, D; Haygarth, PM
Integration for sustainable catchment management

A0322; EGU2007-A-09879; HS43-1TH3P-0322
Parviz, L.; Kholghi, M.
Streamflow Forecasting Using Temporal And Spatial Disaggregation Method

A0323; EGU2007-A-06371; HS43-1TH3P-0323
van der Heijden, S.; Haberlandt, U.
Using Data from Literature for Fuzzy Rule based Modelling of Nitrate Leaching

A0324; EGU2007-A-04797; HS43-1TH3P-0324
Hattermann, F.F.; Conradt, T.; Kaltoven, M.; Koch, H.; Goemann, H.; Wechsung, F.
Integrated Water Resources Management under global change in central Europe: Impacts, uncertainty and adaptation

A0325; EGU2007-A-02741; HS43-1TH3P-0325
Winterscheid, A.
Flood risk analysis using Cross-Impact Matrix

A0326; EGU2007-A-10841; HS43-1TH3P-0326
Masson, E.
Is post-crisis period an opportunity to enhance decision making and implement IWRM at basin scale?

Isotopes in Geosciences: Instrumentation and Applications

IG2/GI14 - IG3/GI15 Instrumentation for Stable and Radiogenic Isotopes (co-organized by GI)

Convener: De Groot, P.
Co-Convener(s): Macko, S., Kerstel, E., Rouxel, O., Revesz, K., Whitehouse, M., Kosler, J., Kutschera, W.
Lecture Room 34
Chairperson: KOSLER, J.

8:30–8:45; EGU2007-A-04958; IG2/GI14 - IG3/GI15-1TH1O-001
Christl, M.; Wacker, L.; Lippold, J.; Suter, M.
Protactinium-231 a new Radionuclide for AMS

8:45–9:00; EGU2007-A-05446; IG2/GI14 - IG3/GI15-1TH1O-002
Whitehouse, M.J.; Srinivasan, G.
Application of the 182Hf-182W chronometer to eucrite zircon and initial solar 182Hf abundance – a multicollector SIMS approach

9:00–9:15; EGU2007-A-08589; IG2/GI14 - IG3/GI15-1TH1O-003
Wills, J.D.; Paul, M.; Hamester, M.
Advances in collision cell and sector-field based ICP-MS for improved isotope ratio analysis

9:15–9:30; EGU2007-A-07293; IG2/GI14 - IG3/GI15-1TH1O-004
Lippold, J.; Marpu, P.R.; Gloaguen, R.; Jonckheere, R.
Fission-Track Dating using Object-Based Image Analysis

9:30–9:45; EGU2007-A-03026; IG2/GI14 - IG3/GI15-1TH1O-005
Foucher, D.; Hintelmann, H.
Application of stable mercury isotope fractionation as a new tool to trace contamination sources in the environment

9:45–10:00; EGU2007-A-11549; IG2/GI14 - IG3/GI15-1TH1O-006
Fedo, C.M.
Secondary Ion Mass Spectrometry Analysis of Iron Isotopes Reveals Micro-Scale Heterogeneity in Earth's Oldest Banded Iron Formation

10:00 COFFEE BREAK

Chairperson: REVESZ, K.

10:30–10:45; EGU2007-A-05809; IG2/GI14 - IG3/GI15-1TH2O-001
Griffith, D.; Haverd, V.; Deutscher, N.; Bryant, G.; Parkes, S.; Wilson, S.; Kettlewell, G.; Riggensbach, M.; Tadros, C.
A portable FTIR spectrometer for real time field measurements of δdI in water vapour and $\delta\text{d}^{13}\text{C}$ in CO_2

10:45–11:00; EGU2007-A-02398; IG2/GI14 - IG3/GI15-1TH2O-002
Iannone, R.; Romanini, D.; Meijer, H.; **Kerstel, E.**
Calibration of a diode laser water isotope ratio spectrometer for in-situ measurements in the troposphere and lower stratosphere: using a piezo-injector to produce water with known concentration and isotopic signature in the laboratory

11:00–11:15; EGU2007-A-09623; IG2/GI14 - IG3/GI15-1TH2O-003

Tanweer, A.; Gröning, M.; Aggarwal, P. K.

Performance data of an infrared laser spectroscopic system for water stable isotope analysis

11:15–11:30; EGU2007-A-09869; IG2/GI14 - IG3/GI15-1TH2O-004

Lau, S.; Loemannsroebe, H.-G.

Isotope-sensitive CO₂ Analysis and CH₄ Detection by NIR Diode Laser Absorption Spectroscopy (DLAS) for Monitoring at the Ketzin Carbon Dioxide Storage Site

11:30–11:45; EGU2007-A-09022; IG2/GI14 - IG3/GI15-1TH2O-005

Strauch, G.; Bozau, E.; Knöller, K.

Boron isotope study on anthropogenic influenced river and groundwater

11:45–12:00; EGU2007-A-04332; IG2/GI14 - IG3/GI15-1TH2O-006

Hilkert, A.

Sensitivity in Relation to Other Properties Required in Modern Isotope Ratio MS

12:00–12:15 Discussion on developments of isotope analytical instrumentation: what is wanted for the future and what is provided?

12:15 END OF SESSION

IG2/GI14 - IG3/GI15 Instrumentation for Stable and Radiogenic Isotopes (co-organized by GI) – Posters

Convener: De Groot, P.

Co-Convener(s): Macko, S., Kerstel, E., Rouxel, O., Revesz, K., Whitehouse, M., Kosler, J., Kutschera, W.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 15:30–17:00

Poster Area Hall A

Chairperson: N.N.

A0327; EGU2007-A-01156; IG2/GI14 - IG3/GI15-1TH4P-0327

Serov, P.

Comparison between Sm-Nd rock-forming mineral and U-Pb zircon and baddeleyite data of the Fedorovo-Pansky Pt-bearing layered intrusion

A0328; EGU2007-A-08020; IG2/GI14 - IG3/GI15-1TH4P-0328

Ronkin, Yu.; Maslov, A.; Sindern, S.; Matukov, D.; Lepikhina, O.; **Kramm, U.**

3.5 Ga old zircons and Nd-model ages in the Taratash Complex, Middle Urals: evidence for Archean and Proterozoic crustal fragments

A0329; EGU2007-A-03255; IG2/GI14 - IG3/GI15-1TH4P-0329

Ilgnier, J.; Jeffries, T.; Faust, D.; Ullrich, B.; Linnemann, U. U/Pb dating and geochemical characterization of the Brocken and the Ramberg Plutons, Harz Mountain, Germany

A0330; EGU2007-A-11497; IG2/GI14 - IG3/GI15-1TH4P-0330

Bruguier, O.; Hammor, D.; Bosch, D.; Gaby, R.

Miocene induction of peridotites into the lower crust during opening of the Algerian basin: evidence from the Edough massif and implications for the evolution of the W. Mediterranean

A0331; EGU2007-A-09304; IG2/GI14 - IG3/GI15-1TH4P-0331

Krause, P.; Delmdahl, R.; Brune, J.

213 nm and 193 nm Laser Ablation Systems for geological applications - Which System for Which Application?

A0332; EGU2007-A-10445; IG2/GI14 - IG3/GI15-1TH4P-0332

Alfimov, V.; Heikkilä, U.; Beer, J.; Synal, H.-A.

³⁶Cl in precipitation over Switzerland during 1988-2005

A0333; EGU2007-A-10579; IG2/GI14 - IG3/GI15-1TH4P-0333

Steier, P.; Forstner, O.; Golser, R.; Kutschera, W.; Merchel, S.; Orlowski, T.; Priller, A.; Vockenhuber, C.; Wallner, A.

Cl-36 exposure dating with a 3-MV tandem

A0334; EGU2007-A-06436; IG2/GI14 - IG3/GI15-1TH4P-0334

Mărgineanu, R.; Simion, C.; Bercea, S.; **Duliu, O.G.;** Gheorghiu, D.; Stochioiu, A.; Matei, M

The Slanic-Prahova (Romania) salt mine ultra-low background radiation laboratory

A0335; EGU2007-A-06590; IG2/GI14 - IG3/GI15-1TH4P-0335

Epov, V.N.; Donard, O.F.X.; Kalmychikov, G.V.; Vasilyeva, I.E.; Evans, R.D.

Si and S isotopic ratios in environmental and biological samples using MC-ICP-MS

A0336; EGU2007-A-08363; IG2/GI14 - IG3/GI15-1TH4P-0336

Abraham, K.; Opfergelt, S.; Cavagna, A.-J.; Planchon, F.; Fripiat, F.; André, L.; deJong, J.; Damien, C

Solving interference on ³⁰Si with a Nu Plasma MC-ICP-MS

A0337; EGU2007-A-02704; IG2/GI14 - IG3/GI15-1TH4P-0337

Bouman, C.; Krummen, M.; McSheehy, S.; Schwieters, J. Coupling of chromatographic techniques to Multicollector ICPMS to detect isotopic variations in complex mixtures

A0338; EGU2007-A-05806; IG2/GI14 - IG3/GI15-1TH4P-0338

Haverd, V.; **Griffith, D.;** Leuning, R.; Cuntz, M.; Deutscher, N.; Tadros, C.; Twining, J

Can stable isotope measurements constrain a canopy-scale model of carbon and water budgets?

A0339; EGU2007-A-05867; IG2/GI14 - IG3/GI15-1TH4P-0339

Tadros, C. V.; Griffith, D. W.; Haverd, V.; Parkes, S. D.; Wilson, S. R.; Williams, A. G.

Calibration and performance of an FTIR spectrometer for field measurements of D/H ratios in water and water vapour

A0340; EGU2007-A-05893; IG2/GI14 - IG3/GI15-1TH4P-0340

Tadros, C. V.; Twining, J. R.; Williams, A. G.; Griffith, D. W.; Haverd, V.

Stable water isotope measurements in an Australian forest ecosystem

A0341; EGU2007-A-02527; IG2/GI14 - IG3/GI15-1TH4P-0341

Mohn, J.; Zeeman, M. J.; **Emmenegger, L.**

Field and laboratory study on atmospheric d¹³C-CO₂ using FTIR spectroscopy

A0342; EGU2007-A-10773; IG2/GI14 - IG3/GI15-1TH4P-0342

Cousin, J.; Plus, S.; **Chen, W.;** Fertein, E.; Boucher, D.

Laser-based isotope ratio measurement

A0343; EGU2007-A-03071; IG2/GI14 - IG3/GI15-1TH4P-0343

Afe, O.A.; **Jaeger, F.J.;** Wagner, G.W.

Detection of ¹³CO₂ and ¹²CO₂ using diode laser driven Ramam scattering

A0344; EGU2007-A-01558; IG2/GI14 - IG3/GI15-1TH4P-0344

Behrens, M.; Fischer, H.; Bock, M.; Salzer, U.; Schmitt, J.
A high precision GC-C-irmMS technique to analyse delta13CH4 in air entrapped in polar ice cores

A0345; EGU2007-A-01396; IG2/GI14 - IG3/GI15-1TH4P-0345

Bock, M.; Behrens, M.; Fischer, H.
A high precision GC-P-irmMS technique to analyse delta(D(CH4)) in air entrapped in polar ice cores

Magnetism, Palaeomagnetism, Rock Physics & Geomaterials

MPRG01 Time variations in the geomagnetic field (co-listed in GD)

Convener: Korte, M.
Co-Convener(s): Constable, C.
Lecture Room 34
Chairperson: KORTE, M.

15:30–15:45; EGU2007-A-03909; MPRG01-1TH4O-001
Bloxham, J.

Core, crustal and other field sources: Identifying what's what in the spectrum

15:45–16:00; EGU2007-A-09359; MPRG01-1TH4O-002
Constable, C.G.; Constable, S.C.

A composite geomagnetic power spectrum constructed from paleo- and geo-magnetic data

16:00–16:15; EGU2007-A-03842; MPRG01-1TH4O-003
Plénier, G.; Valet, J-P.; Guérin, G.; Lefèvre, J-C.; Carter-Stiglitz, B.

Origin and age of the directions recorded during the Laschamp event in the Chaîne des Puys (France).

16:15–16:30; EGU2007-A-05665; MPRG01-1TH4O-004
Johnson, C.; Constable, C.

A Re-evaluation of the Lava Flow Record for the 0-5 Ma Geomagnetic Field (solicited)

16:30–16:45; EGU2007-A-02030; MPRG01-1TH4O-005
Cottrell, R.D.; **Tarduno, J.A.;** Watkeys, M.K.

Examining the strength of Earth's early magnetic field (solicited)

16:45–17:00; EGU2007-A-03591; MPRG01-1TH4O-006
Gillet, N.; Jackson, A.

Maximum entropy regularisation of the core flow inverse problem

17:00 END OF SESSION

MPRG01 Time variations in the geomagnetic field (co-listed in GD) – Posters

Convener: Korte, M.
Co-Convener(s): Constable, C.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 10:30–12:00
Poster Area Hall A
Chairperson: N.N.

A0346; EGU2007-A-02815; MPRG01-1TH2P-0346

Qamili, E.; De Santis, A.; Gaya-Piqué, L.R.; Duka, B.; Cafarella, L.

A revised geomagnetic model for Albania, south-east Italy from 1988 to 2006 with prediction to 2010

A0347; EGU2007-A-06241; MPRG01-1TH2P-0347

Tozzi, R.; De Michelis, P.
Regional jerks in the 20th century

A0348; EGU2007-A-08710; MPRG01-1TH2P-0348

Wardinski, I.; Holme, R.; **Mandea, M.**
Time-dependent core surface flow models and the 2003 jerk

A0349; EGU2007-A-05658; MPRG01-1TH2P-0349

Leonhardt, R.; Fabian, K.
Variations of the geomagnetic field geometry during the past 5000 years

A0350; EGU2007-A-05666; MPRG01-1TH2P-0350

Leonhardt, R.; Fabian, K.; Ferk, A.; Winklhofer, M.
Reconstructing the global geomagnetic field during the Laschamp excursion

A0351; EGU2007-A-06224; MPRG01-1TH2P-0351

Ferk, A.; Leonhardt, R.
Icelandic lavas record quasi-continuous paleointensities of the Laschamp geomagnetic field excursion

A0352; EGU2007-A-08867; MPRG01-1TH2P-0352

Alboussière, T.; Brito, D.; Cardin, P.; Gagnière, N.; Jault, D.; Nataf, H.-C.; **Schmitt, D.**
Hydromagnetic waves in a sodium spherical Couette flow experiment.

A0353; EGU2007-A-00260; MPRG01-1TH2P-0353

Demina, I.; Farafonova, Yu.; Nikitina, L.
Secular variations of the main geomagnetic field within the dipole model of its sources.

MPRG08 Magnetic field observation: where have we been and where are we going?

Convener: Mandea, M.
Co-Convener(s): Vinnerstrom, S., Thomson, A.
Lecture Room 34
Chairperson: MANDEA, M.

13:30–13:45; EGU2007-A-03974; MPRG08-1TH3O-001

Lesur, V.; Thomson, A.
Large scale external fields in near Earth geomagnetic field models (solicited)

13:45–14:00; EGU2007-A-03073; MPRG08-1TH3O-002

Le, G.; Slavin, J.; Wang, Y.-L.; Strangeway, R.
Multi-point magnetic field observations of field-aligned currents from Space Technology 5

14:00–14:15; EGU2007-A-06324; MPRG08-1TH3O-003

Ritter, P.; Lühr, H.
Near-Earth magnetic signature of a magnetospheric substorm

14:15–14:30; EGU2007-A-10406; MPRG08-1TH3O-004

Korhonen, J.V.; the WDMAM 1.0-team
World Digital Magnetic Anomaly Map (WDMAM), First Edition

14:30–14:45; EGU2007-A-03610; MPRG08-1TH3O-005

Balasis, G.; Velimsky, J.; Martinec, Z.; Egbert, G. D.; Daglis, I. A.; Eftaxias, K.
Global electromagnetic induction: combined inversion of satellite and observatory magnetic data using non-zonal source models

14:45–15:00; EGU2007-A-06724; MPRG08-1TH3O-006

Olsen, N.; Mandea, M.
On the geomagnetic jerk of 2003 (solicited)

15:00 END OF SESSION

MPRG08 Magnetic field observation: where have we been and where are we going? – Posters

Convener: Manda, M.

Co-Convener(s): Vennerstrom, S., Thomson, A.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 08:30–10:00

Poster Area Hall A

Chairperson: VENNERSTROM, S., THOMSON, A.

A0354; EGU2007-A-01745; MPRG08-1TH1P-0354

Hemshorn, A.; Manda, M.; Auster, U.; Pulz, E.; Korte, M.
GAUSS - A Geomagnetic AUtomated SyStem for measuring the Earth's magnetic field

A0355; EGU2007-A-02799; MPRG08-1TH1P-0355

Korte, M.; Manda, M.; Olsen, N.

Worldwide observatory hourly mean values 1995 to 2003: an investigation of their quality

A0356; EGU2007-A-01677; MPRG08-1TH1P-0356

Besutiu, L.; Neaga, V.; Atanasiu, L.; Zlagnean, L.; Ilies, I.
Joining airborne geomagnetic maps of Romania and Republic of Moldova. Consistent geomagnetic models crossover the state borders

A0357; EGU2007-A-01923; MPRG08-1TH1P-0357

Brkic, M.; **Sugar, D.**; Peti, I.

Croatian geomagnetic repeat stations survey of 2004

A0358; EGU2007-A-08414; MPRG08-1TH1P-0358

Hamoudi, M.; **Thebault, E.**; **Lesur, V.**; **Quesnel, Y.**; **Manda, M.**

GeoForschungsZentrum Anomaly Magnetic Map (GAMMA): Candidate model for the WDMAM

A0359; EGU2007-A-06218; MPRG08-1TH1P-0359

Olsen, N.; **Sabaka, T. J.**

On estimating high-degree crustal field models using Spherical Harmonic Transforms

A0360; EGU2007-A-09225; MPRG08-1TH1P-0360

Kuvshinov, A.; **Manoj, C.**; **Olsen, N.**; **Sabaka, T.**

On induction effects of geomagnetic daily variations from EEJ and Sq sources. Model studies and comparison with observations.

A0361; EGU2007-A-11070; MPRG08-1TH1P-0361

Verbanac, G.; **Luehr, H.**; **Martin, M.**; **Monika, M.**; **Mioara, M.**

Contributions of the external field to the observatory annual means and a proposal for their corrections

A0362; EGU2007-A-01363; MPRG08-1TH1P-0362

Cop, R.; **Lazovic, C.**; **Mihajlovic, S.**; **Palangio, P.**

The distribution of the K indices geomagnetic activity in 23 rd Sun's cycles

A0363; EGU2007-A-11167; MPRG08-1TH1P-0363

Minchev, B.; **Chambodut, A.**; **Holschneider, M.**; **Manda, M.**

Global magnetic field modelling using local multipolar expansions

A0364; EGU2007-A-11166; MPRG08-1TH1P-0364

Schachtschneider, R.; **Holschneider, M.**

Error Distribution in Regional Modeling

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 10:30–12:00

MPRG Poster Area

Chairperson: N.N.

Natural Hazards

NH1.05 Propagation of uncertainty in advanced meteorological hydrological forecast systems (co-listed in AS)

Convener: Alberoni, P.

Co-Convener(s): Ferraris, L., Bruen, M., Rossa, A.

Lecture Room 24

Chairperson: ROSSA, A

8:30–8:45; EGU2007-A-11541; NH1.05-1TH1O-001

Todini, E.; **Martina, M.L.V.**; **Mantovan, P.**

Predictive probability assessment in hydrological modelling using a formal Bayesian inferential approach (solicited)

8:45–9:00; EGU2007-A-06892; NH1.05-1TH1O-002

Rossi, L.; **Bertolotto, E.**; **Boni, G.**; **Versace, C.**; **Ferraris, L.**
What about uncertainty in discharge data and hydraulic modeling within flood forecast chains?

9:00–9:15; EGU2007-A-09230; NH1.05-1TH1O-003

Jordan, FJ.; **Boillat, JLB.**; **Garcia Hernandez, JG.**; **Schleiss, AS**

Flood forecasting in mountainous catchments : performance and difficulties

9:15–9:30; EGU2007-A-04925; NH1.05-1TH1O-004

Bruen, M.; **O'Sullivan, J.J.**; **Purcell, P.J.**; **Gebre, F.A.**

Design floods for urban areas in Ireland - end-user requirements

9:30–9:45; EGU2007-A-08587; NH1.05-1TH1O-005

Bliefernicht, J.; **Bárdossy, A.**; **Ebert, C.**

A user-oriented verification method for an operational forecasting system based on economic decision models

9:45–10:00; EGU2007-A-03432; NH1.05-1TH1O-006

Younis, J.; **Ramos, M.H.**; **Thielen, J.**

Recent developments on the calibration of LISFLOOD model for the european flood alert system: case-study on The March-April 2006 flood event in the Czech Part of the Elbe River Basin

10:00 END OF SESSION

NH1.05 Propagation of uncertainty in advanced meteorological hydrological forecast systems (co-listed in AS) – Posters

Convener: Alberoni, P.

Co-Convener(s): Ferraris, L., Bruen, M., Rossa, A.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: BRUEN, M.

XY0509; EGU2007-A-02017; NH1.05-1TH2P-0509

Reggiani, P.; **Weerts, AH**

Implementation of a Bayesian uncertainty processor for the operational river Rhine flood forecasting system

XY0510; EGU2007-A-03857; NH1.05-1TH2P-0510

Kok, K.; **Vogelezang, D.**

Warning system of extreme precipitation amounts for the Dutch Water Boards

XY0511; EGU2007-A-03987; NH1.05-1TH2P-0511

Flowerdew, J.; **Horsburgh, K.**; **Mylne, K**

Ensemble forecasting of tidal surges

XY0512; EGU2007-A-04327; NH1.05-1TH2P-0512

Rousset-Régimbeau, F.; **Thirel, G.**; **Martin, E.**; **Habets, F.**

Using Ensemble precipitation forecasts to force hydrological models: results with the ECMWF-EPS and PEARP data

XY0513; EGU2007-A-04456; NH1.05-1TH2P-0513

Mascaro, G.; Deidda, R.; Vivoni, E.

Verification of ensemble precipitation fields simulated by downscaling models by means of Rank Histograms.

XY0514; EGU2007-A-04648; NH1.05-1TH2P-0514

Sokol, Z.; Rezacova, D.

Impact of assimilation of 3D radar reflectivity into the NWP model with a high horizontal resolution

XY0515; EGU2007-A-04681; NH1.05-1TH2P-0515

Jakubiak, B.; Kapala, O.; **Linkowska, J.**

Single-sample estimation of error covariance parameters in optimal interpolation scheme

XY0516; EGU2007-A-04684; NH1.05-1TH2P-0516

Jakubiak, B.; **Starosta, K.**

Observational error correlation model for radar reflectivity

XY0517; EGU2007-A-04838; NH1.05-1TH2P-0517

Diomede, T.; Marsigli, C.; Paccagnella, T.; Selvini, A.; Morgillo, A.

An empirical approach to evaluate the impact on discharge predictions of the spatial uncertainty associated to LAM quantitative precipitation forecasts

XY0518; EGU2007-A-05561; NH1.05-1TH2P-0518

Clark, M.; **Woods, R.;** Ibbitt, R.; Schmidt, J.; Rupp, D.; Uddstrom, M.

Development of a probabilistic streamflow forecasting system for New Zealand (cancelled)

XY0519; EGU2007-A-05897; NH1.05-1TH2P-0519

Georgakakos, K.; Graham, N.

Use of Seasonal Forecast Uncertainty for Improved Decisions

XY0520; EGU2007-A-06311; NH1.05-1TH2P-0520

Rossello, L.; Molini, L.; Parodi, A.; Siccardi, F.

Severe precipitation processes in complex orography: meteorological modelling and comparison of observed and simulated radar data.

XY0521; EGU2007-A-06491; NH1.05-1TH2P-0521

Ferraris, L.; von Hardenberg, J.; Metta, S.; Provenzale, A.; Rebora, N.

A stochastic phase-velocity evolution model for ensemble rainfall nowcasting

XY0522; EGU2007-A-06645; NH1.05-1TH2P-0522

Szturc, J.; Osrodka, K.; Jurczyk, A.

Concept of dealing with uncertainty in Polish weather radar-based meteorological and hydrological data

XY0523; EGU2007-A-07499; NH1.05-1TH2P-0523

Molini, L.; De Sanctis, K.; Parodi, A.; Ferretti, R.; Marzano, F.S.; Montopoli, M.; Siccardi, F.

Characterization of rainfall C-band radar response and dual-polarized measurement

XY0524; EGU2007-A-07557; NH1.05-1TH2P-0524

Kobold, M.; Brilly, M.; Zgonc, A.

Areal rainfall estimation for hydrological modelling and flood forecasting

XY0525; EGU2007-A-08019; NH1.05-1TH2P-0525

Reusser, D.E.; Zehe, E.

A new theoretical framework to communicate uncertainties to flood forecasters

XY0526; EGU2007-A-08082; NH1.05-1TH2P-0526

Dunne, S.; McGrath, R.; Lynch, P.; Semmler, T.; Wang, S.; Hanafin, J.; Nolan, P.

Propagation of calibration uncertainty in a study of the impact of climate change on flood risk.

XY0527; EGU2007-A-08719; NH1.05-1TH2P-0527

Ferri, M.; Rossa, A. M.

River brenta catchment defence by controlled flooding: sensitivity study for the to uncertainty in precipitation input

XY0528; EGU2007-A-10142; NH1.05-1TH2P-0528

Rabuffetti, D.; Ravazzani, G.; Corbari, C.; Mancini, M.

Evaluation of an Operational Flood-Forecasting Model through Uncertainty Propagation Analysis from QPFs to QDFs and to a regional scale Warning System. The AMPHORE Case Studies.

XY0529; EGU2007-A-09363; NH1.05-1TH2P-0529

Trapero, L.; Rigo, T.; Bech, J.; Pineda, N.; Sánchez-Diezma, R.

Analysis of the uncertainty of quantitative precipitation estimates of the Meteorological Service of Catalonia weather radar network

XY0530; EGU2007-A-09390; NH1.05-1TH2P-0530

Poli, V.; Alberoni, P.P.

Verification of uncertainty associated to an ensemble nowcasting system

XY0531; EGU2007-A-09691; NH1.05-1TH2P-0531

Kahl, B.; Nachtnebel, H.P.

Input and parameter uncertainty in real time hydrological forecasts

XY0532; EGU2007-A-10274; NH1.05-1TH2P-0532

Hacker, J

The relationship between PBL winds and scale-dependent uncertainty in land-surface heterogeneity in a mesoscale model

XY0533; EGU2007-A-10303; NH1.05-1TH2P-0533

Velasco-Forero, C.; Schröter, K.; Sempere-Torres, D.; Ostrowski, M.

Effects of rainfall – runoff model structure and rainfall spatial model on hydrological flood forecasting

XY0534; EGU2007-A-10320; NH1.05-1TH2P-0534

Jaun, S.; Walser, A.; **Ahrens, B.;** Zappa, M.; Gurtz, J.; Schar, C.

Atmospheric-hydrologic ensemble prediction and interpretation in the upper Rhine catchment

XY0535; EGU2007-A-10367; NH1.05-1TH2P-0535

Macor, J.; Schertzer, D.; Lovejoy, S.

Multifractals methods applied to the rain forecasting using radar data

XY0536; EGU2007-A-10989; NH1.05-1TH2P-0536

Pujol Reig, L.; Ortiz, E.; Cifres, E.; Garcia Bartual, R.

Errors analysis in real time flow forecasting for 10-days lead time in the Parana river

XY0537; EGU2007-A-11175; NH1.05-1TH2P-0537

Tapiador, FJ

Member selection in Ensemble Forecasting

XY0538; EGU2007-A-11543; NH1.05-1TH2P-0538

Todini, E.; Coccia, G.; Mazzeti, C.

Reconciling Hydrological Physically Based Models and Data Driven Models in Terms of Predictive Probability.

NH2.02 Operational tools for flash-flood forecasting (co-listed in HS)

Convener: Aronica, G.

Co-Convener(s): Borga, M., Moore, R., Mancini, M.

Lecture Room 18

Chairperson: BORGA, M.

13:30–13:45; EGU2007-A-03862; NH2.02-1TH3O-001
Freni, G.; La Loggia, G.; **Noto, L.V.**
Storm kinematics in urban area based on high resolution
raingauge data analysis

13:45–14:00; EGU2007-A-05909; NH2.02-1TH3O-002
Georgakakos, K.; Jubach, R.
A global perspective on flash flood life loss prevention
through operational systems

14:00–14:15; EGU2007-A-02843; NH2.02-1TH3O-003
Fouchier, C.; Arnaud, P.; Lavabre, J.; Mizzi, J.-P.
AIGA: an operational tool for flood warning in southern
France. Principle and performances on Mediterranean
flash-floods.

14:15–14:30; EGU2007-A-08415; NH2.02-1TH3O-004
Szolgay, J.; Danáeová, M.; Baláz, M.
Identification of a multilinear flood routing model for flood
forecasting systems in data-poor situations

14:30–14:45; EGU2007-A-02317; NH2.02-1TH3O-005
Brigandi, G.; **Aronica, G.T.**; Bain, V.
Flash-flood warning in a British catchment using a rainfall
thresholds based approach: a case study

14:45–15:00; EGU2007-A-10189; NH2.02-1TH3O-006
Moore, R.J.; Bell, V.A.; Cole, S.J.
Flood forecasting for ungauged locations: what approach is
best?

15:00 END OF SESSION

NH2.03 Uncertainty and non stationarity in flood risk predictions (co-listed in HS)

Convener: Aronica, G.
Co-Convener(s): Apel, H., Bates, P.
Lecture Room 18
Chairperson: ARONICA, G.

17:30–17:45; EGU2007-A-03042; NH2.03-1TH5O-001
Thieken, A.H.; Olschewski, A.; Merz, B.; Kobsch, S.;
Kreibich, H.
Validation of flood loss models

17:45–18:00; EGU2007-A-01112; NH2.03-1TH5O-002
Schumann, G.; Matgen, P.; Pappenberger, F.; Cutler, M;
Black, A.; Hoffmann, L.; Pfister, L
Reducing uncertainties in flood modelling using (uncertain)
remotely sensed water stages

18:00–18:15; EGU2007-A-00898; NH2.03-1TH5O-003
Di Baldassarre, G.; Castellarin, A.; Horritt, M.S.;
Bates, P.D.; Brath, A.
A numerical approach for identifying the optimal cross-
section distance in one-dimensional hydraulic models

18:15–18:30; EGU2007-A-07225; NH2.03-1TH5O-004
Merz, B.; Stuck, J.
Clustering of floods in Germany

18:30–18:45; EGU2007-A-08066; NH2.03-1TH5O-005
Bray, M.; Han, D
Analysis of weather radar and raingauges for flood forecast-
ing

18:45–19:00; EGU2007-A-08120; NH2.03-1TH5O-006
Dunne, S.; McGrath, R; Lynch, P; Semmler, T; Wang, S;
Hanafin, J; Nolan, P
Impact of Climate Change on River Flooding in Irish
catchments

19:00 END OF SESSION

NH2.04 Risk assessments of complex flood situations (co-listed in HS)

Convener: Kreibich, H.
Co-Convener(s): White, K.
Lecture Room 18
Chairperson: WHITE, K.

15:30–15:45; EGU2007-A-05691; NH2.04-1TH4O-001
Vrijling, J.K.
Flood risk analysis in The Netherlands (solicited)

15:45–16:00; EGU2007-A-09418; NH2.04-1TH4O-002
Bálint, G.; Zempléni, A.; Prokaj, V.; Bozsó, D.; Csík, A.;
Gauzer, B.
River flow simulations for the Tisza Basin in Hungary to
estimate the uncertainty generated by superposition and
coincidence of floods

16:00–16:15; EGU2007-A-04652; NH2.04-1TH4O-003
d. h. Meier, d.h.M.; j. a. Meier, j.a.M
The impact of karst stream flow losses on flood plain
mapping, Camden and Laclede Counties, Missouri, USA

16:15–16:30; EGU2007-A-05669; NH2.04-1TH4O-004
Kreibich, H.; Thieken, A.H.
Main factors influencing the damage due to high groundwa-
ter inundation

16:30–16:45; EGU2007-A-06635; NH2.04-1TH4O-005
Proverbs, D.; Lamond, J
Putting a value on repair; a modular approach to assessing
the costs of flood damage

16:45–17:00; EGU2007-A-02916; NH2.04-1TH4O-006
Apel, H.; Aronica, G. T.; Kreibich, H.; Thieken, A. H.
Flood risk assessment strategies – a comparative study

17:00 END OF SESSION

NH2.05 Integrated Natural Hazard Protection (floods and mass movement): Structural and nonstructural measures – state-of-the-art (co-listed in HS)

Convener: Huebl, J.
Co-Convener(s): Rudolf-Miklau, F.
Lecture Room 18
Chairperson: RUDOLF-MIKLAU, F.

8:30–8:45; EGU2007-A-07811; NH2.05-1TH1O-001
Romang, H.; Guler, A.; Wilhelm, C.; Barandun, J.;
Roth, H.U.
Managing Flood Events in Alpine Areas – a Decision-
Support Tool for Interventions

8:45–9:00; EGU2007-A-02297; NH2.05-1TH1O-002
Rheinberger, C.; Bründl, M.
Structural, Organizational, and Hybrid Mitigation Strategies
in Avalanche Risk Management

9:00–9:15; EGU2007-A-03349; NH2.05-1TH1O-003
Tsai, C.-C.; Lin, H.-C.; Bombeck, H.
Watershed analysis of pulsing landslide using ecosystem
model

9:15–9:30; EGU2007-A-03436; NH2.05-1TH1O-004
Huebl, H.; Koenig, K
Real scale debris flow experiments at Schesatobel/Austria

9:30–9:45; EGU2007-A-01277; NH2.05-1TH1O-005
Proske, D.; Kaitna, R.; König, U.; Hübl, J.
Development of design impact forces of debris flow

9:45–10:00; EGU2007-A-10729; NH2.05-1TH1O-006
Wendeler, C.; Volkwein, A.; Denk, M.; Roth, A.
Use of flexible protection systems against debris flows

10:00 COFFEE BREAK

Chairperson: HUEBL, J.

10:30–10:45; EGU2007-A-01354; NH2.05-1TH2O-001
Mazzorana, M.

A failure propensity indicator for check dams based neural network techniques supported by expert elicitations

10:45–11:00; EGU2007-A-03242; NH2.05-1TH2O-002
Suda, J.; Strauss, A.

Monitoring Concept for Torrential Barriers

11:00–11:15; EGU2007-A-01157; NH2.05-1TH2O-003
Stoffel, M.; Bollschweiler, M.

On the role of tree-ring analysis for the characterization of debris-flow torrents and the design of structural and non-structural mitigation measures

11:15–11:30; EGU2007-A-00703; NH2.05-1TH2O-004
Huebl, J.; Woehrer-Alge, M.; Weber, C.; Gruber, H.; Ellmer, A.; Kleemayr, K.; Lang, E.; Schnetzer, I.; Schmid, F.; Rudolf-Miklau, F.

Documentation and analysis of the 2005 disaster in Austria caused by floods and massmovements: Methods and results

11:30–11:45; EGU2007-A-07030; NH2.05-1TH2O-005
Prokop, A.

The application of terrestrial laser scanning for landslide monitoring

11:45–12:00; EGU2007-A-00005; NH2.05-1TH2O-006
Osti, R.; Tanaka, S.; Tokioka, T.

Flood hazard mapping in developing countries

12:00 END OF SESSION

NH3.02 Landslides and erosion monitoring and characterization using high resolution DEM, LIDAR and other DEM techniques

Convener: Jaboyedoff, M.

Co-Convener(s): Couture, R., Derron, M., Crosta, G.

Lecture Room 27

Chairperson: JABOYEDOFF, M.

8:30–8:45; EGU2007-A-07170; NH3.02-1TH1O-001

Rabatel, A.; Deline, P.; Ravanel, L.; Jaillet, S.

The use of laserscanning and terrestrial photogrammetry to quantify rock falls/avalanches in steep high-alpine rock walls.

8:45–9:00; EGU2007-A-01171; NH3.02-1TH1O-002

Lato, M.; Hutchinson, J.; Diederichs, M.; Kalenchuk, K.

Evaluating block shape and block volume distributions of rock faces using LiDAR and 3DEC

9:00–9:15; EGU2007-A-03957; NH3.02-1TH1O-003

Ghirotti, M.; Genevois, R.; Teza, G.

An example of a complex rock slope failure investigated by means of Laser Scanner Technique and numerical modelling

9:15–9:30; EGU2007-A-08194; NH3.02-1TH1O-004

Fricout, B.; Villemain, Th.; Bornaz, L.

Remote analysis of cliff outcrops using laser DDSM and digital images

9:30–9:45; EGU2007-A-03976; NH3.02-1TH1O-005

Oppikofer, T.; Jaboyedoff, M.; Keusen, H.-R.

High resolution monitoring and analysis of the rock slope collapse of the Eiger (Switzerland)

9:45–10:00; EGU2007-A-00783; NH3.02-1TH1O-006

Abellan, A.; Rosser, N.J.; Vilaplana, J.M.; Garcia, D.; Calvet, J.; Dunning, S.A.

Terrestrial laser scanning for rockslope monitoring & joint orientation: the influence of the point density

10:00 COFFEE BREAK

Chairperson: DERRON, M.-H.

10:30–10:45; EGU2007-A-00576; NH3.02-1TH2O-001

Agatova, A.

New aspects of studying of seismogravitational paleodislocations for paleoseismogeological researches

10:45–11:00; EGU2007-A-06421; NH3.02-1TH2O-002

Shieh, C.L.; Chen, Y.S.; Tsai, Y.J.; Lee, S.P.; Tsai, S.C.

Sediment Movement after Chi-Chi Earthquake in Taiwan ~

Example for Wushihkeng Watershed

11:00–11:15; EGU2007-A-07610; NH3.02-1TH2O-003

Crosta, G.B.; Agliardi, F.; Jaboyedoff, M.; Pedrazzini, A.

Grain size and roughness of talus slopes: implications for rockfall modelling and hazard assessment

11:15–11:30; EGU2007-A-04424; NH3.02-1TH2O-004

Genevois, R.; Galgaro, A.; Squarzone, C.; Teza, G.

Geological model and numerical simulation of a complex instability phenomenon in the Eastern Alps

11:30–11:45; EGU2007-A-01806; NH3.02-1TH2O-005

Dewitte, O.; Van Den Eeckhaut, M.; Poesen, J.; Demoulin, A.

Recent activity of an old landslide in the Flemish Ardennes (Belgium)

11:45–12:00; EGU2007-A-02770; NH3.02-1TH2O-006

Cavalli, M.; Marchi, L.

Recognition of debris-flow deposits and man-made topographic features on an alpine alluvial fan.

12:00 END OF SESSION

NH3.02 Landslides and erosion monitoring and characterization using high resolution DEM, LIDAR and other DEM techniques – Posters

Convener: Jaboyedoff, M.

Co-Convener(s): Couture, R., Derron, M., Crosta, G.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: JABOYEDOFF, M.

XY0539; EGU2007-A-10570; NH3.02-1TH5P-0539

Metzger, R.; Jaboyedoff, M.

Coltop-3D: A new software for analyzing rock-slope relief using 3D-imaging cloud points

XY0540; EGU2007-A-07031; NH3.02-1TH5P-0540

Doshida, S.; Chigira, M.; Nakamura, T.

Morphological analysis of slope development by using airborne laser scanner data in Ribira, Hokkaido

XY0541; EGU2007-A-08745; NH3.02-1TH5P-0541

Avian, M.; Proske, H.; Schardt, M.

Assessment of geomorphic features with high resolution LIDAR and optical data – case studies in the Eastern Alps.

XY0542; EGU2007-A-03227; NH3.02-1TH5P-0542

Galli, M.; Bell, R.; Cardinali, M.; Glade, T.; Guzzetti, F.

Combined use of aerial photographs and LIDAR elevation data to obtain large scale landslide inventory maps

XY0543; EGU2007-A-09232; NH3.02-1TH5P-0543
Travelletti, J.; Jaboyedoff, M.; Marillier, F
 Determination of mobilised material by a mud flow in the
 Glaiive forest (SW Switzerland) using a high resolution DEM

XY0544; EGU2007-A-08980; NH3.02-1TH5P-0544
Krauthblatter, M.; Moser, M.; Schrott, L.; Wolf (formerly
 Poppel), J.
 A detailed record of sediment transfer and geomorphic work
 of small, medium and high magnitude-rockfalls in an Alpine
 Catchment (Reintal, German Alps)

XY0545; EGU2007-A-08399; NH3.02-1TH5P-0545
Gigli, G.; Casagli, N.; lombardi, L.; Nocentini, M.
 Magnitude estimation and runout analyses of a rockslide in
 the Torgiovanetto quarry (PG)

XY0546; EGU2007-A-09139; NH3.02-1TH5P-0546
Lines, M.; Hovius, N.; Meunier, P.; Dadson, S.; Chen, H.
 Evolution of the rates of mass wasting and fluvial sediment
 transfer from the epicentral area of the 1999, Mw 7.6
 earthquake

XY0547; EGU2007-A-07861; NH3.02-1TH5P-0547
Su-Chin, Chen; Chun-Hung, Wu
 The evaluation of landslide depth and sediment yield due to
 typhoon events in Taiwan

XY0548; EGU2007-A-02685; NH3.02-1TH5P-0548
ARDIZZONE, F.; Cardinali, M.; Galli, M.; Guzzetti, F.;
 Reichenbach, P.
 Distribution of landslides in the Upper Tiber River basin,
 central Italy

XY0549; EGU2007-A-03254; NH3.02-1TH5P-0549
Cardinali, M.; Galli, M.; Ardizzone, F.; Guzzetti, F.;
 Reichenbach, P.
 Comparing landslide rates in the northern and central
 Apennines, Italy

NH3.14 The role of vegetation in slope stability

Convener: Florineth, F.
 Co-Convener(s): Calcaterra, D., Doronzo, G.
 Lecture Room 27
 Chairperson: FLORINETH, F.

13:30–14:00; EGU2007-A-10512; NH3.14-1TH3O-001
Werner, A.; Katzenbach, R.
 Experimental investigations for the determination (solicited)

14:00–14:15; EGU2007-A-03613; NH3.14-1TH3O-002
Rauch, H.P.; Lammeranner, W.; Stangl, R.; Rachoy, CH.
 Analysing slope failures as a decision support for soil
 bioengineering techniques

14:15–14:30; EGU2007-A-05209; NH3.14-1TH3O-003
Schwarz, M.; Preti, F.
 The influence of root reinforcement depending on the shape
 and the dimension of shallow landslides

14:30–14:45; EGU2007-A-09463; NH3.14-1TH3O-004
Travelletti, J.; Randin, C.; Vittoz, P.; Guisan, A.; Jaboyed-
 off, M
 Are plant species and vegetation communities an indicator
 of soil instability?

14:45–15:00; EGU2007-A-09488; NH3.14-1TH3O-005
Hacker, eh
 Sustainable slope reinforcement with strings of hay

15:00 COFFEE BREAK

Chairperson: CALCATERRA, D.

15:30–15:45; EGU2007-A-00257; NH3.14-1TH4O-001
Wu, W.; Ferstl, F.; Aschauer, F.
 Model testing of biotechnically reinforced slopes in geotech-
 nical centrifuge

15:45–16:00; EGU2007-A-01743; NH3.14-1TH4O-002
Allegra, C.; Dorren, L.; van Beek, L.P.H.; Williams, A.G.;
 Whitehead, I.R.G.; Berger, F.
 Assessing the stabilising effect of forest cover on landslide-
 prone terrain in the French Alps

16:00–16:15; EGU2007-A-06227; NH3.14-1TH4O-003
Lammeranner, W.; Meixner, M.; Florineth, F.
 The effect of woody plants on dikes and levees: Design and
 construction of a model dike

16:15–16:30; EGU2007-A-10576; NH3.14-1TH4O-004
Bischetti, G.B.; D'Agostino, V.; Simonato, T.
 On the quantification of brushlayer's effect on slopes stability

16:30–16:45; EGU2007-A-10603; NH3.14-1TH4O-005
Mickovski, S.B.; Bengough, A.G.; Bransby, M.F.;
 Davies, M.C.R.; Hallett, P.D.; Sonnenberg, R.
 Fundamental investigations on shear reinforcement of soil
 by vegetation

16:45–17:00; EGU2007-A-07869; NH3.14-1TH4O-006
Sauli, G.; Cornelini, P.
 The application of native species of shrubs rooted and as
 cuttings in soil bioengineering intervention in the mediter-
 ranean areas in Italy

17:00 END OF SESSION

NH3.14 The role of vegetation in slope stability – Posters

Convener: Florineth, F.
 Co-Convener(s): Calcaterra, D., Doronzo, G.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
 Poster Area Halls X/Y
 Chairperson: FLORINETH, F.

XY0550; EGU2007-A-05537; NH3.14-1TH5P-0550
Burri, K.; Graf, F.; Böll, A.
 Increasing Eco-Engineering Success with the joint Contri-
 bution of Plants and Mycorrhizal Fungi

XY0551; EGU2007-A-06136; NH3.14-1TH5P-0551
Sutili, F.J.; Durlo, M.A.; Florineth, F.; Rauch, H.P.
 Investigations on the selection of plants for soil bioengineer-
 ing measures in South Brazil

XY0552; EGU2007-A-05217; NH3.14-1TH5P-0552
Schwarz, M.; Or, D.; Lehmann, P.
 Process scale and key parameters for hydromechanical
 triggering of shallow landslides in vegetated slopes

XY0553; EGU2007-A-07848; NH3.14-1TH5P-0553
Kovalev, N.
 Soil protection through trees and shrubs in the Russian
 Confederation

XY0554; EGU2007-A-10410; NH3.14-1TH5P-0554
Montagnoli, A.; Di Iorio, A.; Magatti, G.; Scippa, G.S.;
 Chiatante, D.
 Influence of forest managements on water runoff and soil
 erosion, in steep forestlands from northern Italy.

XY0555; EGU2007-A-07643; NH3.14-1TH5P-0555
Petrone, A.; Preti, F.
 Investigation on autochthonal cuttings suitability for soil
 bioengineering measures in Central America

XY0556; EGU2007-A-01224; NH3.14-1TH5P-0556

Zegrar, Z

application of remote sensing in identifying role of vegetation to struggle against desertification

XY0557; EGU2007-A-01505; NH3.14-1TH5P-0557

Kubota, T.; Omura, H.; Devkota, B.

Influence of the forest on slope stability with different forest felling condition

XY0558; EGU2007-A-03628; NH3.14-1TH5P-0558

Rauch, H.P.; Archarya, M.; Khadka, P.

Construction of soil bioengineering and conventional methods used in road side slope stabilisation works in Nepal

XY0559; EGU2007-A-04826; NH3.14-1TH5P-0559

Cicardi, M.G.; Gironi, F.

Recovery and production of autochthonous species in the Santa Caterina ski area (Sondrio, Italy)

XY0560; EGU2007-A-06394; NH3.14-1TH5P-0560

Acharya, M.S.; Florineth, F.

Effects of plants in vegetative crib wall- results of pore water pressure and soil moisture measurements behind a vegetative crib wall

XY0561; EGU2007-A-10444; NH3.14-1TH5P-0561

Montagnoli, A.; Di Iorio, A.; Lazzaroni, R.; Scippa, G.S.; Chiatante, D.

The roles of root biomass and its depth distribution in matgrass pasture on steep slopes (*Nardus stricta* L.) for soil resistance improvement

XY0562; EGU2007-A-11410; NH3.14-1TH5P-0562

Doranzo, G.; Calcaterra, D.; Papaccio, S.; Pellegrino, A.

Bioengineering techniques as a tool for integration and maintenance works in an urban area

NH4.02 Electric, magnetic and electromagnetic phenomena related to earthquakes (co-listed in SM)

Convener: Biagi, P.

Co-Convener(s): Molchanov, O., Hayakawa, M., VALLIANATOS, F.

Lecture Room 16 (L)

Chairperson: BIAGI, P.F.

13:30–13:45; EGU2007-A-03492; NH4.02-1TH3O-001

Kopytenko, Yu.; Ismaguilov, V.; Hattori, K.; Hayakawa, M. Magnetic location of ionosphere and lithosphere sources of ULF geomagnetic disturbances

13:45–14:00; EGU2007-A-03514; NH4.02-1TH3O-002

Ismaguilov, V.; **Kopytenko, Yu.**; Semenov, N.

Anomaly behavior of correlation coefficients of ULF geomagnetic disturbances before strong earthquake

14:00–14:15; EGU2007-A-04798; NH4.02-1TH3O-003

Stavrakas, I.; Kyriazis, P.; Anastasiadis, C.; Triantis, D.; Vallianatos, F.

Electric signal relaxation under constant stress on abruptly stressed rocks and on constantly compressed rocks in the vicinity of failure

14:15–14:30; EGU2007-A-03333; NH4.02-1TH3O-004

Kyriazis, P.; Stavrakas, I.; Anastasiadis, C.; Triantis, D. Identification of deformation stages in rocks by means of weak electric current emissions using wavelet analysis

14:30–14:45; EGU2007-A-00520; NH4.02-1TH3O-005

Moldovan, I.A.; Enescu, D.; Moldovan, A.

Results obtained through the geomagnetic method for short-term prediction of Vrancea (Romania) earthquakes. A ten year experience

14:45–15:00; EGU2007-A-00925; NH4.02-1TH3O-006

Kaya, T.; Tank, S.B.; Tuncer, M.K.; Rokityansky, I.I.;

Tolak, E.; Shavchenko, T.

Magnetotelluric imaging of Duzce Fault, Turkey

15:00 COFFEE BREAK

Chairperson: VALLIANATOS, F.

15:30–15:45; EGU2007-A-02084; NH4.02-1TH4O-001

Ramírez-Rojas, A.; Cervantes de la Torre, F.; Pavía-Miller, C.; Angulo-Brown, F.

A comparison of ground electrotelluric activity between three regions of different level of seismicity

15:45–16:00; EGU2007-A-02663; NH4.02-1TH4O-002

Telesca, L.; Hattori, K.

Seismic precursory non-uniform scaling behavior in Ultra Low Frequency (ULF) geomagnetic signals

16:00–16:15; EGU2007-A-01081; NH4.02-1TH4O-003

Biagi, P.F.; Castellana, L.; Maggipinto, T.; Piccolo, R.; Minafra, A.; Ermini, A.; Capozzi, V.; Solovieva, M.; Molchanov, O.; Hayakawa, M.

Decreases in the electric intensity of VLF radio signals and possible connections with the seismicity

16:15–16:30; EGU2007-A-01209; NH4.02-1TH4O-004

Molchanov, O.; Molchanov

Monitoring of seismo-related ionospheric perturbations using VLF signals received on the ground and satellite DEMETER

16:30–16:45; EGU2007-A-03077; NH4.02-1TH4O-005

Nemec, F.; Santolik, O.; Parrot, M.; Berthelier, J. J.

DEMETER observations of electromagnetic perturbations connected with seismic activity

16:45–17:00; EGU2007-A-02130; NH4.02-1TH4O-006

Parrot, M.; Li, F.

Statistical study of the variation of ionospheric parameters observed by the satellite DEMETER during seismic activity

17:00 COFFEE BREAK

Chairperson: MOLCHANOV O.

17:30–17:45; EGU2007-A-00149; NH4.02-1TH5O-001

Zakharenkova, I.E.; Shagimuratov, I.I.; Yakimova, G.A.

Ionospheric TEC anomalies as precursors of January 8, 2006 earthquake

17:45–18:00; EGU2007-A-00493; NH4.02-1TH5O-002

Ondoh, T.

Study of precursory phenomena before M7.2 Hyogoken Nambu earthquake of January 17, 1995 around Kobe, Japan for earthquake prediction

18:00–18:15; EGU2007-A-01785; NH4.02-1TH5O-003

Onishi, T.; Berthelier, J.-J.

Automatic detection and recognition of plasma waves and statistical analysis of ionospheric effects of seismic activity

18:15–18:30; EGU2007-A-05014; NH4.02-1TH5O-004

Mekkawi, M.; Elbohuty, M

Delineation of subsurface structures and tectonics of hot spring, central Sinai, Egypt as deduced from magnetotelluric and magnetic data (cancelled)

18:30–18:45; EGU2007-A-09559; NH4.02-1TH5O-005
Sengor, T

Up-to-dating of genetic codes of seismo-electromagnetic data related to the prediction of the earthquakes at North Anatolian Fault with cavity model: natural regularizations and seismo-electromagnetical resonance effects on the future Marmara Sea earthquakes

18:45–19:00; EGU2007-A-10340; NH4.02-1TH5O-006
Smirnova, N.; Hayakawa, M.; Uritsky, V.; Mezentssev, A.
Extraction of the earthquake precursory signatures from fractal characteristics of ULF emissions

19:00 END OF SESSION

NH4.03 Deformation processes and accompanying mechanical and electromagnetic phenomena, for rocks and other materials, from the laboratory to the geophysical scale

Convener: Eftaxias, K.
Co-Convener(s): Chelidze, T., Morgounov, V., Nomicos, C., Manda, M.
Lecture Room 16 (L)
Chairperson: MANDEA, M.

8:30–9:00; EGU2007-A-00442; NH4.03-1TH1O-001
Chelidze, T.; Lursmanashvili, O.; Matcharashvili, T.
Electromagnetic Forcing of Stick-Slip Deformation: multiple synchronization and phase shift (solicited)

9:00–9:30; EGU2007-A-06918; NH4.03-1TH1O-002
Putelat, T.; Dawes, J.H.; Willis, J. R.; Aifantis, E. C.
Relaxation oscillations of slip and crack instabilities (solicited)

9:30–9:45; EGU2007-A-02314; NH4.03-1TH1O-003
Balasis, G.; Manda, M.
CHAMP satellite observations during recent destructive megathrust earthquakes

9:45–10:00; EGU2007-A-04829; NH4.03-1TH1O-004
Eftaxias, K.; Contoyiannis, Y.; Karamanos, K.; Kalimeri, M.; Balasis, G.; Kopanas, J.; Antonopoulos, G.; **Nomicos, K. D.**
Evidence of a self-affine asperity fault model in preseismic electromagnetic activity

10:00 COFFEE BREAK

Chairperson: CHELIDZE, T.

10:30–11:00; EGU2007-A-01658; NH4.03-1TH2O-001
Tsutsui, M.
A method of monitoring earth-crust stress-changes from identifications of source locations of EM pulses excited in the earth (solicited)

11:00–11:15; EGU2007-A-04778; NH4.03-1TH2O-002
Koulouras, G.; Kontakos, K.; Avgoustis, G.; Stonham, J.; Ruzhin, Y.; Stavrakakis, G.; Eftaxias, C.; **Nomicos, C**
Electromagnetic emissions in the 142 to 415 MHz band

11:15–11:30; EGU2007-A-01247; NH4.03-1TH2O-003
Cavouras, D.; Georgiadis, P.
Application of pattern recognition methods for detecting the existence of EM precursor signals preceding major seismic events

11:30–11:45; EGU2007-A-02320; NH4.03-1TH2O-004
Manda, M.; **Balasis, G.**
Occurrence of catastrophic geophysical events

11:45–12:00; EGU2007-A-04830; NH4.03-1TH2O-005
Karamanos, K.; **Nomicos, C.;** Eftaxias, K.
Search for signatures that imply the transition to earthquake nucleation by means of complexity

12:00 END OF SESSION

NH6.01 Tsunamis (co-listed in OS) – Posters

Convener: Tinti, S.
Co-Convener(s): Pelinovsky, E.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: TINTI, S.

XY0563; EGU2007-A-01656; NH6.01-1TH5P-0563
van Groesen, E.
Near coast tsunami waveguiding

XY0564; EGU2007-A-02089; NH6.01-1TH5P-0564
Egorov, Y.
Interaction of a solitary tsunami wave with river current

XY0565; EGU2007-A-03283; NH6.01-1TH5P-0565
Madsen, P. A.; Fuhrman, D.R.
Run-up of tsunamis and long waves in terms of surf similarity

XY0566; EGU2007-A-08744; NH6.01-1TH5P-0566
Gaslikova, L.; Gayer, G.; Larsen, O.
Numerical modelling of tsunamis with non-linear shallow water equations and Boussinesq type models for simplified coastal areas

XY0567; EGU2007-A-07680; NH6.01-1TH5P-0567
Kaystrenko, V.
A method for tsunami wave form re-calculation trough the shelf

XY0568; EGU2007-A-09078; NH6.01-1TH5P-0568
Androssov, A.; Babeyko, A.; Behrens, J.; Danilov, S.; Harig, S.; Schröter, J.; Sein, D.; Sidorenko, D.; Startseva, O.
Tsunami propagation on complex bathymetric features: Numerical studies

XY0569; EGU2007-A-10446; NH6.01-1TH5P-0569
Özeren, M. S.; Postacioglu, N.
A simple robust scheme for landslide tsunami run-up

XY0570; EGU2007-A-10858; NH6.01-1TH5P-0570
Di Risio, M.; Aristodemo, F.; Petrillo, A.; De Girolamo, P.; Molfetta, M.; Bellotti, G.; Panizzo, A.
Tsunamis generated by landslides sliding down a conical island: a new experimental study

XY0571; EGU2007-A-11047; NH6.01-1TH5P-0571
Grue, J.; Pelinovsky, E.; Kharif, Ch.; Fructus, D.; **Talipova, T.**
Short, pronounced waves generated by the December 2004 tsunami in the shallow Strait of Malacca

XY0572; EGU2007-A-00282; NH6.01-1TH5P-0572
Pelinovsky, E.; Choi, B.H.; Kim, D.C.; Woo, S.B.
Three-dimensional simulation of tsunami run-up around conical island

XY0573; EGU2007-A-00218; NH6.01-1TH5P-0573
Pelinovsky, E.; Choi, B.H.; Hong, S.J.
Distribution of Runup Heights of the December 26, 2004 Tsunami in the Indian Ocean

XY0574; EGU2007-A-01241; NH6.01-1TH5P-0574
Pelinovsky, E.
Tsunamis in the Eastern Mediterranean: coasts of Israel and neighbouring states

XY0575; EGU2007-A-01654; NH6.01-1TH5P-0575
Pelinovsky, E.; Schuiling, R.D.; Cathcart, R.B.; Badescu, V.; Isvoranu, D.
 Asteroid impact in the Black Sea: tsunami and toxic gas emission

XY0576; EGU2007-A-00073; NH6.01-1TH5P-0576
Didenkulova, I.; Pelinovsky, E.
 Runup of solitary waves of different shapes on a beach

XY0577; EGU2007-A-11258; NH6.01-1TH5P-0577
Didenkulova, I.; Zahibo, N.
 Spectrum of the tide-gauge surface waves in Pointe-a-Pitre bay, Guadeloupe

XY0578; EGU2007-A-02301; NH6.01-1TH5P-0578
 Tinti, S.; Bernard, P.; Bressan, L.; Armigliato, A.; Gallazzi, S.; Pagnoni, G.; Tonini, R.; Zaniboni, F.
 Spectral analysis of tide-gauge records in the Gulf of Corinth, Greece, and implications for tsunami detection

XY0579; EGU2007-A-02768; NH6.01-1TH5P-0579
 Tinti, S.; **Pagnoni, G.**; Zaniboni, F.; Tonini, R.; Brizuela Reyes, B.; Maramai, A.; Graziani, L.
 The simulation of the 1783 Scilla tsunami, Calabria, Italy

XY0580; EGU2007-A-01979; NH6.01-1TH5P-0580
Altinok, Y.; Alpar, B.; Ozer, N.
 6 October 1944 Ayvacik earthquake and associated tsunami; Gulf of Edremit, Turkey

XY0581; EGU2007-A-01999; NH6.01-1TH5P-0581
Alpar, B.; Altinok, Y.
 Marmara Island earthquakes with associated sea waves

XY0582; EGU2007-A-11517; NH6.01-1TH5P-0582
Dominey-Howes, D.; Dunbar, P.; Varner, J.; Papathoma-Köhle, M.
 Assessing tsunami vulnerability: a pilot study in Seaside, Oregon, USA

XY0583; EGU2007-A-06465; NH6.01-1TH5P-0583
Chiu, HC
 Assessing tsunami hazard for Hong Kong

XY0584; EGU2007-A-11135; NH6.01-1TH5P-0584
Mokhtari, M.
 Main structural elements of Makran (Sea of Oman) region based on seismic data and required Tsunami Early Warning System

XY0585; EGU2007-A-07802; NH6.01-1TH5P-0585
Premasiri, H M R; Styles, P.; Shrira, V.
 Sumatra tsunami signature in sediment characteristics on the Sri Lankan coast

XY0586; EGU2007-A-04773; NH6.01-1TH5P-0586
Piyadasa, R.U.K.; Weerasinghe, K.D.N.; Liyanage, J.A.; Wijayawardhana, L.M.J.; Kumara, D.S.C.; Lakmal, H.K.C.
 Remediation process of groundwater quality in Asian Tsunami affected Southern Sri Lanka- Case study in Kumbalgama area

XY0587; EGU2007-A-02585; NH6.01-1TH5P-0587
Ajith Joseph, K.; Roshin Raj, P.; Prasanth, D.
 A decreasing trend in the Chlorophyll distribution in the Eastern Arabian Sea during the post Indian Ocean Tsunami period

XY0588; EGU2007-A-03910; NH6.01-1TH5P-0588
Sodoudi, F.; Yuan, X.; Kind, R.
 A study of the tsunami induced seismic signal recorded at broadband stations

XY0589; EGU2007-A-05569; NH6.01-1TH5P-0589
 Baptista, M A; **Miranda, J M**
 Spatial distribution of tsunami height and The extent of inundation along the Portuguese coast – the 1755 event; preliminary evaluation

XY0590; EGU2007-A-06341; NH6.01-1TH5P-0590
HEBERT, H.; Roger, J.; Schindelé, F.
 Advances in tsunami hazard assessment in the western Mediterranean Sea

XY0591; EGU2007-A-07232; NH6.01-1TH5P-0591
Khvostova, O.; Kurkin, A.; Pelinovsky, E.; Kharif, K.
 Tsunami risk estimation for the French coast of the Mediterranean

XY0592; EGU2007-A-11257; NH6.01-1TH5P-0592
Ioualalen, M.; Migeon, S.; Sardoux, O.
 Tsunamis in Ligurian Sea

XY0593; EGU2007-A-08823; NH6.01-1TH5P-0593
Behrens, J.; Androsov, A.; Babeyko, A.; Braune, S.; Harig, S.; Hiller, W.; Klaschka, F.; Schroeter, J.; Sein, D.; Taguchi, E.
 Design of a multi-sensor enabled simulation module for tsunami early warning

XY0594; EGU2007-A-10078; NH6.01-1TH5P-0594
Roessler, D.; Ohrnberger, M.; Krueger, F.
 Rupture propagation of recent large TsE off-coast Sumatra and Java

XY0595; EGU2007-A-10245; NH6.01-1TH5P-0595
Mazova, R.; Lobkovsky, L.; Baranov, B.; Kataeva, L.; Morozova, A.
 Realized earthquake and tsunami prognosis: comparison of real event and results of numerical simulation of possible tsunami generation by hypothetical source localized in Kurile-Kamchatka seismic gap region

XY0596; EGU2007-A-02458; NH6.01-1TH5P-0596
 Nudner, I.; **Maximov, V.**; Mayorov, Yu.
 Tsunami generation by the motion of the underwater landslide

XY0597; EGU2007-A-00661; NH6.01-1TH5P-0597
Arkhipov, D.; Khabakhpashev, G.
 A new system of equations for nonlinear shallow water waves running simultaneously in the different horizontal directions

XY0598; EGU2007-A-05903; NH6.01-1TH5P-0598
Fedotova, Z.
 Numerical modeling of interaction between long surface waves and floating elastic body.

XY0599; EGU2007-A-00353; NH6.01-1TH5P-0599
Kapochkin, B.B.; Kucherenko, N.V.; Kapochkina, A.B.
 The geodynamics of earthquakes are generating tsunami.

NH6.02 Extreme Sea Waves (co-listed in OS) (including Plinius Medal Lecture)

Convener: Pelinovsky, E.
 Co-Convener(s): Kharif, C.
 Lecture Room 24
 Chairperson: TINTI, S.

13:30–14:00; EGU2007-A-05382; NH6.02-1TH3O-001
 Kurkin, A.
 Edge waves above a cylindrical shelf: focusing, instabilities and interactions (Plinius Medal Lecture) (solicited)

14:00–14:15; EGU2007-A-11222; NH6.02-1TH3O-002
 Schober, C. M.
 Rogue waves, non-Gaussian statistics and proximity to homoclinic data

14:15–14:30; EGU2007-A-02194; NH6.02-1TH3O-003
Gramstad, O.; Trulsen, K.
 Influence of crest and group length on the occurrence of freak waves

14:30–14:45; EGU2007-A-01674; NH6.02-1TH3O-004
van Groesen, E.; Andonowati, A.; She Liam, L.; Lakhturov, I.
 Characterization of Extremal Waves in KdV-type models

14:45–15:00; EGU2007-A-00087; NH6.02-1TH3O-005
Pelinovsky, E.; Kharif, C.; Talipova, T.
 Freak wave occurrence near vertical barriers

15:00 COFFEE BREAK

Chairperson: PELINOVSKY, E.

15:30–15:45; EGU2007-A-01445; NH6.02-1TH4O-001
Kartashova, E.
 The role of resonance conditions in the dynamics of nonlinear waves (solicited)

15:45–16:00; EGU2007-A-04251; NH6.02-1TH4O-002
Menendez, M.; Graham, N.E.; Mendez, F.J.; Losada, I.J.
 Long-term trends in extreme significant wave height in the Northeast Pacific Ocean – an application of extreme value theory.

16:00–16:15; EGU2007-A-05650; NH6.02-1TH4O-003
Burgers, G.; Koek, F.; de Vries, J.; Stam, M
 What factors limit observed extreme maximum wave height distributions in the North Sea?

16:15–16:30; EGU2007-A-08230; NH6.02-1TH4O-004
Wang, S.; McGrath, R.; Semmler, T.; Hanafin, J.A.; Dunne, S.; Nolan, P.
 The impact of climate change on the storm surge over Irish sea

16:30–16:45; EGU2007-A-01323; NH6.02-1TH4O-005
Voronovich, V.; Shrira, V.I.; Thomas, G.P.
 Does bottom friction affect freak wave probability?

16:45–17:00; EGU2007-A-01212; NH6.02-1TH4O-006
Lechuga, A.
 A method to predict freak waves

17:00 END OF SESSION

NH6.02 Extreme Sea Waves (co-listed in OS) (including Plinius Medal Lecture) – Posters

Convener: Pelinovsky, E.

Co-Convener(s): Kharif, C.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: PELINOVSKY, E.

XY0600; EGU2007-A-00088; NH6.02-1TH5P-0600
Didenkulova, I.; Slunyaev, A.; Pelinovsky, E.
 Freak waves in 2006

XY0601; EGU2007-A-00074; NH6.02-1TH5P-0601
Didenkulova, I.; Pelinovsky, E.; Sergeeva, A.
 Runup of irregular waves with various statistics

XY0602; EGU2007-A-00091; NH6.02-1TH5P-0602
Didenkulova, I.

Characteristics of the nonlinear shallow water wave: shape, steepness and spectrum

XY0603; EGU2007-A-01358; NH6.02-1TH5P-0603
Branger, H.; Kimmoun, O.; Lubin, P.; Kharif, Ch.
 Experimental and numerical investigation of the hydrodynamics generated by regular breaking waves

XY0604; EGU2007-A-01240; NH6.02-1TH5P-0604
Giovanangely, J.-P.; Kharif, Ch.; Talipova, T. G.
 Numerical simulation and wavelet analysis of the transient wave groups

XY0605; EGU2007-A-00500; NH6.02-1TH5P-0605
Touboul, J.; Pelinovsky, E.; Kharif, C.
 Nonlinear Focusing Wave Group on Current

XY0606; EGU2007-A-05358; NH6.02-1TH5P-0606
 Kurkin, A.; **Chernov, A.;** Bezruk, I.; Kuznetsov, K.
 Field observations of sea surface state near Ostry cape (eastern shelf of Sakhalin Island)

XY0607; EGU2007-A-02455; NH6.02-1TH5P-0607
 Nudner, I.; **Maximov, V.;** Dymov, M.
 Interaction of water-waves with permeable structures

XY0608; EGU2007-A-01697; NH6.02-1TH5P-0608
 Branger, H.; Brocchini, M.; Grimshaw, R.; **Pelinovsky, E.;** Shokin, Yu.; Chubarov, L.; Liapidevskii, V.
 Mathematical modeling of mixing and dispersion effects in the shallow waters of the coastal zone

XY0609; EGU2007-A-01242; NH6.02-1TH5P-0609
 Talipova, T.G.; Lamb, K.G.; Polukhina, O.E.; Kurkin, A.A.
 Large-amplitude internal solitons and breathers in the Luson Strait

XY0610; EGU2007-A-01346; NH6.02-1TH5P-0610
 Talipova, T.; Polukhina, O.; Lavrenov, I.; Bezruk, I.; Zelenova, N.
 Estimations of large-amplitude internal waves in the Arctic Seas

XY0611; EGU2007-A-01871; NH6.02-1TH5P-0611
 Kurkin, A.; Pelinovsky, E.; Polukhina, O.; **Slunyaev, A.;** Talipova, T.; Zahibo, N.
 Strongly nonlinear steepening of long interfacial waves

XY0612; EGU2007-A-05321; NH6.02-1TH5P-0612
Chernov, A.; Bezruk, I.; Polukhina, O.
 Nonlinear dynamics of internal gravity waves in a three-layer fluid

XY0613; EGU2007-A-05326; NH6.02-1TH5P-0613
 Bezruk, I.; Chernov, A.; Kurkin, A.; Polukhina, O.; Zelenova, N.
 Large amplitude long nonlinear internal gravity waves in stratified basins: models and dynamics

XY0614; EGU2007-A-03701; NH6.02-1TH5P-0614
Makarenko, N.; Maltseva, J.
 An analytical model of large amplitude internal solitary waves

XY0615; EGU2007-A-01039; NH6.02-1TH5P-0615
 Sergeeva, A.; **Pelinovsky, E.;** Zahibo, N.
 Weakly damped soliton dynamics in the random shallow sea

XY0616; EGU2007-A-01068; NH6.02-1TH5P-0616
Pelinovsky, E.; Dyskin, A.V.; Marais, T.; Pasternak, E.
 High amplitude resonances in impact oscillator

XY0617; EGU2007-A-05310; NH6.02-1TH5P-0617
Premasri, H M R.; Styles, P.; Shrira, V.
 Sumatra Tsunami Signature in Sediment Characteristics on the Sri Lankan coast.

XY0618; EGU2007-A-09848; NH6.02-1TH5P-0618
Manev, A.; Jekov, J.; Mardirossian, G.; Getchov, P.; Palazov, K.; Stoyanov, St.
 Satellite research of the Black sea surface temperature anomalies and its relation to other physical phenomena

NH6.03 Coastal geohazards – Posters

Convener: Violante, C.

Co-Convener(s): Baas, A., Vittori, E.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 15:30–17:00

Poster Area Halls X/Y

Chairperson: VIOLANTE, C.

XY0619; EGU2007-A-03642; NH6.03-1TH4P-0619

Recorbet, F.; Benedetti, L.; Bourlès, D.; Braucher, R.; Hantz, D.; Rochette, P.

Characterization and age dating of coastal cliff collapse in southeast France

XY0620; EGU2007-A-04285; NH6.03-1TH4P-0620

Mendez, F.J.; Menendez, M.; Luceno, A.; Losada, I.J.

Modelling the seasonal-to-interannual variability of extreme sea levels

XY0621; EGU2007-A-05195; NH6.03-1TH4P-0621

Efe, R.

The effects of land cover change on the Göksu Delta ecosystem

XY0622; EGU2007-A-05906; NH6.03-1TH4P-0622

Ivins, E.R.; Dokka, R.K.; Blom, R.G.; Wu, X.

Observation and model of post-glacial sediment load and subsidence in the Gulf of Mexico

XY0623; EGU2007-A-06034; NH6.03-1TH4P-0623

Günther, A.; Thiel, C.; Lange, C.; Schütze, K.; Kuhn, D.; Obst, K.; Balzer, D.

Integrated slope stability and sliding susceptibility assessment of the Jasmund cliff area (Rügen Island, Germany)

XY0624; EGU2007-A-06359; NH6.03-1TH4P-0624

Cencetti, C.; **Manzo, C.**

Coastline evolution analysis of an Adriatic coastal area: late historical trend and future scenarios

XY0625; EGU2007-A-11342; NH6.03-1TH4P-0625

Porfido, S.; Esposito, E.; Alaia, F.

Analysis of historical sources to temporal and spatial floods distribution along the Amalfi Coast (Southern Italy)

XY0626; EGU2007-A-11346; NH6.03-1TH4P-0626

Esposito, E.; Porfido, S.; Violante, C.

Permanent and ephemeral effects due to coastal flooding: the October 1954 flood reconstruction on the Sorrento peninsula (Southern Italy)

XY0627; EGU2007-A-11361; NH6.03-1TH4P-0627

Sacchi, M.; Esposito, E.; Insinga, D.; Molisso, F.; Porfido, S.; Violante, C.; Morra, V.

Drilling through an active caldera for geohazard purpose (CAFE Project). Offshore Campi Flegrei, eastern Tyrrhenian margin

XY0628; EGU2007-A-11362; NH6.03-1TH4P-0628

Amanti, M.; Aversa, M.; Cesa, C.; Di Manna, P.; **Vittori, E.** Monitoring the rockfall hazard of the Montagna Spaccata, Gaeta, sea cliff

XY0629; EGU2007-A-11463; NH6.03-1TH4P-0629

Violante, C.

Hazard-related seafloor features in the Bay of Napoli, Campania, Southern Italy.

XY0630; EGU2007-A-11466; NH6.03-1TH4P-0630

Violante, C.; Esposito, E.; Gargano, G.; Porfido, S.; Sacchi, M.; Tesauero, A.; Vittori, E.

Coarse fan deltas off Amalfi coastal area (Italy): an interplay between catastrophic floods and volcanic fall-out events.

XY0631; EGU2007-A-11582; NH6.03-1TH4P-0631

Aversa, M.; Berti, D.; Commerci, V.; Lucarini, M.; Torre, R.; Ventura, G.; Vittori, E.

A possible bradyseismic event in Roman times near Ardea (Tyrrhenian sea coast of Latium, central Italy)

NH9.01 Vulnerability assessments and spatial/temporal variability of natural hazards risk – Posters

Convener: Keiler, M.

Co-Convener(s): Fuchs, S., Glade, T., Kelman, I.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: FUCHS, S.

XY0632; EGU2007-A-03228; NH9.01-1TH5P-0632

Papathoma-Koehe, M.; Neuhaeuser, B.; Ratzinger, K.; Wenzel, H.

A Methodology for Vulnerability Assessment of Communities prone to Landslide related Disasters

XY0633; EGU2007-A-08659; NH9.01-1TH5P-0633

Pascale, S.; **Sdao, F.;** Sole, A.

Assessment of systemic vulnerability in landslide prone areas: a proposed model

XY0634; EGU2007-A-09265; NH9.01-1TH5P-0634

Santini, M.; Caccamo, G.; Iocola, I.; Putzu, G.; Pittalis, D.; Valentini, R.

Soil erosion and overgrazing pressure as indicators for desertification vulnerability assessment in Sardinia (Italy): an integrated modelling approach

XY0635; EGU2007-A-11350; NH9.01-1TH5P-0635

Heitz, C.; Glatron, S.; Spaeter, S.; Auzet, A.-V.

Perception of risk of natural disasters related to muddy flows by local actors of peri urban territories (Alsace – France)

XY0636; EGU2007-A-01630; NH9.01-1TH5P-0636

Fuchs, S.; Oberndorfer, S.; Heiss, K.

Application of the vulnerability concept to torrent events in Austria

XY0637; EGU2007-A-09605; NH9.01-1TH5P-0637

Dorner, W.; Spachinger, K.; Metzka, M.

Statistical and GIS approach for vulnerability assessment on a catchment scale

XY0638; EGU2007-A-04394; NH9.01-1TH5P-0638

Matova, M.; Frangov, G.; Ivanov, P.

Studies of Balkan seismic-hydrogeological vulnerability

XY0639; EGU2007-A-06878; NH9.01-1TH5P-0639

Keiler, M.; Fuchs, S.

The influence of different vulnerability approaches on the results of snow avalanche risk analysis

XY0640; EGU2007-A-08949; NH9.01-1TH5P-0640

Kronholm, K.; **Jaedicke, C.;** Vikhamar-Schuler, D.; Isaksen, K.; Sorteberg, A.; Solheim, A.

Spatial and temporal variations of geohazards in Norway under a changing climate

XY0641; EGU2007-A-11552; NH9.01-1TH5P-0641

Zischg, A.

Alternation in perception and evaluation of flood risks due to global change

XY0642; EGU2007-A-10470; NH9.01-1TH5P-0642

Seeling, S.; Bell, R.; Gellweiler, I.; Borens, S.; Seeger, M.

Employing historical CORONA satellite imagery for monitoring human impact on zones endangered by inundation, muddy floods and landslides

XY0643; EGU2007-A-01709; NH9.01-1TH5P-0643

Keiler, M.; Fuchs, S.

Natural hazard risk depending on the temporal variability of damage potential

XY0644; EGU2007-A-01342; NH9.01-1TH5P-0644

El-Galladi, A.; El-Qady, G.; **Metwaly, M.;** Awad, S.; Matsushima, J.

Mapping peat layer using integrated surface geoelectrical techniques at eastern part of Nile Delta, Egypt.

NH9.05 Economic aspects and societal decision making in hazards and risk management – Posters

Convener: Fuchs, S.

Co-Convener(s): Bründl, M., Bernknopf, R., Chung, C., Glade, T.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 15:30–17:00

Poster Area Halls X/Y

Chairperson: GLADE, T.

XY0645; EGU2007-A-03007; NH9.05-1TH4P-0645

Frattini, P.; Crosta, G.B.; Mossa, S.; Fossati, D.

Regional scale economic efficiency evaluation of defensive works in Alpine valleys

XY0646; EGU2007-A-06595; NH9.05-1TH4P-0646

Giacomelli, P.; Brambilla, M.

Economic risk assessment in case of landslide. The case of an Italian Alpine valley

XY0647; EGU2007-A-08079; NH9.05-1TH4P-0647

Jeng, H.; Ko, Y

The Effects of Non-market Benefits on Planning of Mitigation Measures against Debris Flows in Taiwan

XY0648; EGU2007-A-02253; NH9.05-1TH4P-0648

Iglesias, I.; Moneo, M

Drought management guidelines for Mediterranean countries

XY0649; EGU2007-A-09634; NH9.05-1TH4P-0649

Spachinger, K.; Dorner, W.; Metzka, R.

Economic aspects of flood protection enhancements

XY0650; EGU2007-A-08519; NH9.05-1TH4P-0650

Gruber, M.

Alternative solutions for public and private natural catastrophe funding

XY0651; EGU2007-A-09292; NH9.05-1TH4P-0651

Ulbrich, T.; Kaempf, Ch.; Ihringer, J.; Nestmann, F.

Effective online-information on flooding: Experts and governmental authorities in support of stakeholders' needs

XY0652; EGU2007-A-07014; NH9.05-1TH4P-0652

Rosser, N.J.; Petley, D.N.; Dunning, S.A.

New science, local knowledge and risk management policy; the case of a UK cliff top coastal community

XY0653; EGU2007-A-01884; NH9.05-1TH4P-0653

Bányai, Á.; Banyai, T.

Optimised technical resource management of networked recycling

NH10.03 Geo-Databases and Information Systems for Natural Hazards and Risk Assessment

Convener: Reichenbach, P.

Co-Convener(s): Grignon, A., Guzzetti, F.

Lecture Room 24

Chairperson: REICHENBACH, P.

10:30–10:45; EGU2007-A-05782; NH10.03-1TH2O-001

Schmidt, J.; Turek, G.; Matcham, I.; Reese, S.; Bell, R.; King, A

RiskScape - an innovative tool for multi-hazard risk modelling

10:45–11:00; EGU2007-A-06099; NH10.03-1TH2O-002

Günther, A.; Balzer, D.; Kuhn, D.

An information system engineering geology (ISEG) for urban spatial planning

11:00–11:15; EGU2007-A-09966; NH10.03-1TH2O-003

Trigila, A.; Iadanza, C.; **Vittori, E.**

The WebGIS application of the IFFI Project (Italian Landslide Inventory)

11:15–11:30; EGU2007-A-08418; NH10.03-1TH2O-004

Siebert, A.

Munich Re serves worldwide natural hazards application on the web

11:30–11:45; EGU2007-A-08104; NH10.03-1TH2O-005

Martinelli, F.; Meletti, C.

Dissemination of seismic hazard data in Italy through a WebGIS application

11:45–12:00; EGU2007-A-09738; NH10.03-1TH2O-006

Locati, M.; Migliavacca, P.; Albini, P.; Stucchi, M.

Building an open-source archive of historical earthquake studies

12:00 END OF SESSION

NH10.03 Geo-Databases and Information Systems for Natural Hazards and Risk Assessment – Posters

Convener: Reichenbach, P.

Co-Convener(s): Grignon, A., Guzzetti, F.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: GUZZETTI, F.

XY0654; EGU2007-A-10818; NH10.03-1TH5P-0654

Kucinskas, A.; Seber, D.

Geo-information and space technologies-based geohazards-related disaster management support system

XY0655; EGU2007-A-05432; NH10.03-1TH5P-0655

Chelidze, T.; Tsereteli, E.; Tsereteli, N.; Varazanashvili, O.;

Kaldani, L.; Dolidze, J.; Karakhanyan, A.; Shakhshvarov, A.

Natural hazards risk assessment for South Caucasus

XY0656; EGU2007-A-03728; NH10.03-1TH5P-0656

Amirkhanyan, M.

Presentation of environmental monitoring data applying GIS

XY0657; EGU2007-A-07895; NH10.03-1TH5P-0657

Rigon, R.; Antonello, A.; **Cordano, E.;** Dall'Amico, M.;

Franceschi, S.; Ghesla, E.; Giacomelli, D.; Simoni, S.;

Tiso, C.; Zanotti, F.

A component based framework for estimating shallow landslides and debris flow hazard

XY0658; EGU2007-A-07566; NH10.03-1TH5P-0658

Ratto, S.; Armand, M.; **Giardino, M.;** Alberto, W.

Landslide inventory construction and its data analysis in Valle d'Aosta region (NW-Italy)

XY0659; EGU2007-A-03408; NH10.03-1TH5P-0659

Rizzo, V.; Calendino, A.; Caruso, P.; Curcio, G.; Miceli, M.;

Soleri, S.

Study of an northern Calabria area subject to landslides supported by GIS analysis

XY0660; EGU2007-A-03036; NH10.03-1TH5P-0660
 Petrucci, O.; Rizzo, V.; Calendino, A.; Veltri, P.
 A geo-database for the assessment of landslide damage evolution in a calabrian study area (Italy)

XY0661; EGU2007-A-07212; NH10.03-1TH5P-0661
Pereira, Dr.; Bateira, Prof.
 A Landslide Geodatabase of the Northern Portugal region

XY0662; EGU2007-A-09769; NH10.03-1TH5P-0662
Baldi, B.; Coscini, N.; Del Seppia, N.; Graziosi, B.; Massa, G.; Perna, M.; Rossetto, R.; Simoncini, D.; Carmignani, L.
 Geothematic maps for landslide hazard management in the Serchio River Basin (Northern Tuscany, Italy).

XY0663; EGU2007-A-02199; NH10.03-1TH5P-0663
Peruccacci, S.; Rossi, M.; Balducci, V.; Guzzetti, F.
 A world-wide database of rainfall thresholds for the possible initiation of landslides

XY0664; EGU2007-A-02252; NH10.03-1TH5P-0664
Polemio, M.
 Geo-databases for the assessment of groundwater degradation risks of a coastal plain (southern Italy)

XY0665; EGU2007-A-02984; NH10.03-1TH5P-0665
 Polemio, M.; Petrucci, O.
 Geo-database and characterisation of drought effect on groundwater

XY0666; EGU2007-A-09440; NH10.03-1TH5P-0666
Blumetti, A.M.; Guerrieri, L.; Brustia, E.; Caputo, A.M.; Poddighe, S.; Vittori, E.
 Surface faulting risk in Italy from capable faults and urban sprawl data

XY0667; EGU2007-A-09522; NH10.03-1TH5P-0667
GIZZI, F.T.; LAZZARI, M.; MASINI, N.; ZOTTA, C.
 Geological-geophysical and historical-macro seismic data implemented in a geodatabase: a GIS integrated approach for seismic microzonation

XY0668; EGU2007-A-05115; NH10.03-1TH5P-0668
IM, C.B.; SHIM, T.M.; NOH, M.; LEE, H.; CHOI, H.S.; JEONG, J.H.
 Geo-information DB system on the KNPP sites

Nonlinear Processes in Geosciences

NP1.01/US9 Frontiers in Nonlinear Processes in Geosciences (co-organized by US) (including Lewis Fry Richardson Medal Lecture)

Convener: Schertzer, D.
 Co-Convener(s): von Hardenberg, J., Lovejoy, S., Redondo, J., Toth, Z., Timmermann, A.
 Lecture Room 4 (H)
 Chairperson: SCHERTZER, D.

18:15–18:45; EGU2007-A-01172; NP1.01/US9-1TH5O-004
Peinke, J.
 Wind Energy : a Challenging Nonlinear Problem (solicited)

18:45–19:15; EGU2007-A-01173; NP1.01/US9-1TH5O-005
Dum, R.
 A multidisciplinary approach to modelling: Can scientific modelling guide policies? (solicited)

19:15 END OF ORAL SESSIONS

Chairperson: SCHERTZER, D.

19:15–19:45; EGU2007-A-01175; NP1.01/US9-1TH6O-001

Givone, P.
 Hydrology, extreme events estimation, rivers regimes predictions, data dependency and persistence (solicited)

19:45–20:30; EGU2007-A-11515; NP1.01/US9-1TH6O-002
 Schumann, U.

From little whorls to the global atmosphere (Lewis Fry Richardson Medal Lecture) (solicited)

20:30 END OF SESSION

NP2.02/CR180 Nonlinear cryospheric dynamics (co-organized by NP and CR) – Posters

Convener: Schoof, C.
 Co-Convener(s): Rempel, A.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 15:30–17:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0669; EGU2007-A-06812; NP2.02/CR180-1TH4P-0669
Galton-Fenzi, B.; Maraldi, C; Hunter, J; Coleman, R; Testut, L; Legresy, B
 Tides in the Amery Ice Shelf/Prydz Bay region, East Antarctica

XY0670; EGU2007-A-03398; NP2.02/CR180-1TH4P-0670
 Hindmarsh, R.C.A
 3D deforming bed instabilities: an explanation for drumlins?

XY0671; EGU2007-A-05787; NP2.02/CR180-1TH4P-0671
Rempel, A.
 Frost Heave and Sediment Entrainment by Glaciers

XY0672; EGU2007-A-10481; NP2.02/CR180-1TH4P-0672
Schoof, C.; Creys, TT
 Hysteresis in a model for subglacial sheet drainage

XY0673; EGU2007-A-04707; NP2.02/CR180-1TH4P-0673
Stern, H.; Lindsay, R.; Bitz, C.; Hezel, P.
 What is the trajectory of Arctic sea ice?

NP4.05/US8 Earthquake prediction: what can be done with the best science available? (co-organized by US) (co-listed in NH & SM)

Convener: Kossobokov, V.
 Co-Convener(s): Keilis-Borok, V., Panza, G., Simon, F., Rouhban, B.
 Lecture Room 4 (H)
 Chairperson: KOSSOBOKOV, V.

13:30–14:00; EGU2007-A-06766; NP4.05/US8-1TH3O-001
Keilis-Borok, V.I.
 Earthquake prediction: paradigms and opening possibilities (solicited)

14:00–14:30; EGU2007-A-05722; NP4.05/US8-1TH3O-002
Jordan, T.; Schorlemmer, D.; Zechar, J.; Liukis, M.; Maechling, P.
 Collaboratory for the Study of Earthquake Predictability (solicited)

14:30–15:00; EGU2007-A-01833; NP4.05/US8-1TH3O-003
Uyeda, S.; Nagao, T.; Kamogawa, M.
 Earthquake prediction: current status of seismo-electromagnetics (solicited)

15:00 COFFEE BREAK

Chairperson: PANZA, G.

15:30–16:00; EGU2007-A-01695; NP4.05/US8-1TH4O-001

Nyland, E

Social impact of earthquake prediction (solicited)

16:00–16:30; EGU2007-A-03170; NP4.05/US8-1TH4O-002

Ismail-Zadeh, A.

Earthquakes: From basic science and prediction to preventive disaster management (solicited)

16:30–16:45; EGU2007-A-06306; NP4.05/US8-1TH4O-003

Laor, E.

Disaster prediction and civil preparedness (solicited)

16:45–17:00; EGU2007-A-11255; NP4.05/US8-1TH4O-004

Aoudia, K.; Panza, G.F.

Length and time scales of the continental deformation: A lithosphere-scale rock mechanics experiment (solicited)

17:00–17:15; EGU2007-A-11637; NP4.05/US8-1TH4O-005

Jiang, Z.; Zhang, G.; **Gao, Y.**; Wang, W.

Progress in research of earthquake prediction in China (solicited)

17:15 COFFEE BREAK

Chairperson: SIMON, F.

17:30–17:45; EGU2007-A-05280; NP4.05/US8-1TH5O-001

Mokhtari, M

Earthquake prediction activities and introduction of earthquake precursor test site in Iran. (solicited)

17:45–18:00; EGU2007-A-10158; NP4.05/US8-1TH5O-002

Peresan, A.; Kossobokov, V.; Gorshkov, A.; Vaccari, F.; Panza, G.F.

Pattern recognition techniques and time dependent neodeterministic seismic hazard assessment (solicited)

18:00 END OF SESSION

NP5.01 Quantifying predictability

Convener: Toth, Z.

Co-Convener(s): Vannitsem, S., Craig, G.

Lecture Room 22

Chairperson: N.N.

8:30–8:45; EGU2007-A-00545; NP5.01-1TH1O-001

Young, R.; Read, P. L.

Intrinsic predictability measures of baroclinic chaos and quasi-periodic flow in the rotating annulus

8:45–9:00; EGU2007-A-01726; NP5.01-1TH1O-002

Ruessink, B.G.

Predictability Experiments of Nearshore Bathymetry using a Process-based Numerical Model

9:00–9:15; EGU2007-A-04040; NP5.01-1TH1O-003

Rabier, F.; Gauthier, P.; **Langland, R**

Objectives of the THORPEX working group on data assimilation and observing strategies for high impact weather forecast improvements

9:15–9:30; EGU2007-A-08852; NP5.01-1TH1O-004

Martín, A.; Homar, V.; Fita, LL.; Gutiérrez, J.M.; Rodríguez, M.A.; Primo, C.

Geometric vs classical breeding of vectors: Application to hazardous weather in the Western Mediterranean

9:30–9:45; EGU2007-A-10775; NP5.01-1TH1O-005

Reynolds, C.; **Teixeira, J.**; McLay, J.; Bishop, C.

Stochastic parameterizations: Impact on short-term perturbation growth and ensemble prediction.

9:45–10:00; EGU2007-A-08760; NP5.01-1TH1O-006

Doblas-Reyes, F. J.; Weisheimer, A.; Berner, J.; Palmer, T. N.

Model error reduction in ensemble seasonal predictions with stochastic parametrizations

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-09148; NP5.01-1TH2O-001

Ghil, M.; Chekroun, M.; Simonnet, E.

Robust estimates of climate change and the generalization of structural stability

10:45–11:00; EGU2007-A-06935; NP5.01-1TH2O-002

Smith, L.A.; Du, H.; Binter, R.; Broecker, J.; Clarke, L.

A framework for investigating: "How large should an ensemble be?"

11:00–11:15; EGU2007-A-09013; NP5.01-1TH2O-003

Broecker, J.; Smith, L. A.

On the relative value of a High Resolution Forecast in an Ensemble Prediction System

11:15 END OF SESSION

NP5.02 Data assimilation in the presence of nonlinearities (co-listed in AS)

Convener: Talagrand, O.

Lecture Room 22

Chairperson: N.N.

11:15–11:45; EGU2007-A-04519; NP5.02-1TH2O-004

Langland, R.

Adjoint-based observation impact monitoring (solicited)

11:45–12:00; EGU2007-A-03584; NP5.02-1TH2O-005

Van Leeuwen, P.J.

A two-step particle smoother for large-scale problems

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2007-A-03147; NP5.02-1TH3O-001

Nakano, S.; Ueno, G.; Higuchi, T.

A particle filter with merging procedure for sequential data assimilation

13:45–14:00; EGU2007-A-11380; NP5.02-1TH3O-002

Zhang, F.; Zhang, M.; Hansen, J.

Coupling ensemble Kalman filter with 4-D variational data assimilation

14:00–14:15; EGU2007-A-06891; NP5.02-1TH3O-003

Carrassi, A.; Trevisan, A.; Descamps, L.; Talagrand, O.; Uboldi, F.

Controlling the instabilities along a 3DVar analysis cycle by assimilating in the unstable subspace: a comparison with the EnKF

14:15–14:30; EGU2007-A-04013; NP5.02-1TH3O-004
El Akkraoui, A.; Gauthier, P.; Pellerin, S.
 Intercomparison of the primal and dual formulations of variational data assimilation

14:30–14:45; EGU2007-A-01946; NP5.02-1TH3O-005
Auroux, D.; Blum, J.
 Back and forth nudging algorithm for data assimilation problems

14:45–15:00; EGU2007-A-00862; NP5.02-1TH3O-006
Parmuzin, E.I.; Shutyaev, V.P.
 Numerical solution of variational data assimilation problem for 3D ocean model with 1D nonlinear vertical heat exchange

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-04022; NP5.02-1TH4O-001
Ricci, S.; Weaver, A.
 Variational assimilation of sea surface temperature data in global ocean general circulation model

15:45–16:00; EGU2007-A-04834; NP5.02-1TH4O-002
Korotaev, G.K.; Huot, E.; Le Dimet, F.-X.; Herlin, I.; Stanichny, S.V.; Solov'yev, D.M.
 Assimilation of space imagery for retrieving of marine surface currents

16:00–16:15; EGU2007-A-09938; NP5.02-1TH4O-003
Papadakis, N.; Memin, E.; Corpetti, T.
 Variational estimation of 2D time consistent dense motion from image sequence

16:15–16:30; EGU2007-A-05031; NP5.02-1TH4O-004
Ide, K.; Jones, C.; Liu, L.
 Issues in Lagrangian data assimilation

16:30–16:45; EGU2007-A-07598; NP5.02-1TH4O-005
Du, H.; Judd, K.; Khare, S.; Smith, L.A.
 Nowcasting with Indistinguishable States

16:45–17:00; EGU2007-A-03176; NP5.02-1TH4O-006
Ismail-Zadeh, A.; Schubert, G.; Tsepelev, I.; Korotkii, A.
 Data assimilation in models of Earth's mantle dynamics

17:00–17:15; EGU2007-A-05384; NP5.02-1TH4O-007
Kurapov, A.; Egbert, G.; Allen, J.; Miller, R.
 Representer-based variational data assimilation in a nonlinear model of nearshore circulation

17:15 END OF SESSION

NP6.06 Astrophysical Turbulence and Shocks, Plasmas and High Mach Number Flows (co-listed in PS) – Posters

Convener: Haas, J.
 Co-Convener(s): Redondo, J., Bouquet, S.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 15:30–17:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0674; EGU2007-A-00409; NP6.06-1TH4P-0674
Bondyopadhyaya, R.
 A study of variation of Sun's Spot and South West Monsoon and Cyclonic storms in India

XY0675; EGU2007-A-00628; NP6.06-1TH4P-0675
Besedina, Yu.N.; Kopnin, S.I.; Popel, S.I.
 Ion–neutral collisions and macroparticle charging in Earth's "dusty" ionosphere

XY0676; EGU2007-A-01922; NP6.06-1TH4P-0676
Lebo, I.G.; Zvorykin, V.D.; Technical university-MIREA
 The study of turbulent mixing zone development in laser shock tube experiments. (solicited)

XY0677; EGU2007-A-02105; NP6.06-1TH4P-0677
 Garzon, G.; Rozanov, V.; Redondo, J.M.
 Inverse cascades in RT and RM instabilities (solicited)

XY0678; EGU2007-A-04416; NP6.06-1TH4P-0678
Vukicevic, T.; posselt, D.
 Analysis of the impact of model nonlinearities in solutions to stochastic inverse problems

XY0679; EGU2007-A-05726; NP6.06-1TH4P-0679
Redondo, J.M.; Mahjoub, O.B.
 Cascade non locality in Baroclinic driven flows

XY0680; EGU2007-A-10411; NP6.06-1TH4P-0680
Kovács, P.; Vörös, Z.
 Turbulent study of the solar wind magnetic fluctuations in front of the earth's bow shock during extreme activity of the interplanetary field

XY0681; EGU2007-A-10990; NP6.06-1TH4P-0681
Toque, N.; Lignières, F.; Vincent, A.
 Turbulent transport in stellar radiative zones

XY0682; EGU2007-A-11041; NP6.06-1TH4P-0682
 Retejum, A.
 Solar Impact on the Earth Rotation

XY0683; EGU2007-A-11436; NP6.06-1TH4P-0683
 Lopez Gonzalez-Nieto, P.; Cano, J.L.; **Redondo, J.M.;** Van der Voor, I.
 Buoyant mixing modifications by Unstable Flows

XY0684; EGU2007-A-11438; NP6.06-1TH4P-0684
 Falize, E.; **Bouquet, S.;** Michaut, C.
 Radiative Cooling and Kelvin-Helmholtz Instability in Astrophysics (solicited)

XY0685; EGU2007-A-11554; NP6.06-1TH4P-0685
 Dolgova, G.V.; **Zhmaylo, V.A.;** Novikova, E.A.; Stat-senko, V.P.
 Development of Semi-Empirical Turbulent Mixing Model for Calculating MHD-Parameters of Supernova Remnants

NP6.07 Turbulence and dispersion in particle-laden geophysical flows: theory and models (co-listed in HS & SSP) – Posters

Convener: Cencini, M.
 Co-Convener(s): Lanotte, A.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 15:30–17:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0686; EGU2007-A-00736; NP6.07-1TH4P-0686
 Horvai, P.; Nazarenko, S.; **Stein, T**
 Coalescence of gravitationally settling particles (solicited)

XY0687; EGU2007-A-01645; NP6.07-1TH4P-0687
 Wilkinson, M.; **Mehlig, B.;** Ostlund, S.; Duncan, K.
 Unmixing in random flows

XY0688; EGU2007-A-11468; NP6.07-1TH4P-0688
 Seminara, A.; Celani, A.; **Lanotte, A.;** Toschi, F.
 Microdroplets growth by condensation in warm clouds

XY0689; EGU2007-A-11452; NP6.07-1TH4P-0689
 Bec, J.; **Cencini, M.;** Hillerbrand, R.
 Very heavy particles in incompressible flows: the large Stokes number asymptotics

XY0690; EGU2007-A-02749; NP6.07-1TH4P-0690
Chauchat, J.; Guillou, S.; Nguyen, K.D.
 A 2D vertical two-phase flow model for sediment laden flows

XY0691; EGU2007-A-10345; NP6.07-1TH4P-0691
Hill, K.; DellAngelo, L.; Shaffer, G
 Model studies of different sized tracer particles in bedload transport

XY0692; EGU2007-A-11075; NP6.07-1TH4P-0692
Le Louvetel-Poilly, J.; Bigillon, F.; Champagne, JY
 Experimental investigation on the turbulent structures involved in particle motion (solicited)

XY0693; EGU2007-A-10565; NP6.07-1TH4P-0693
Leung, V.; Mohrig, D.
 Establishing an Unambiguous Connection between Grain Size, Basal Shear Stress and Style of Sediment Transport in the Lower Niobrara River, Nebraska, USA

NP6.08 Nonlinear geophysical fluid dynamics – Posters

Convener: Caulfield, C.
 Co-Convener(s): Flor, J., Balmforth, N.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0694; EGU2007-A-02245; NP6.08-1TH3P-0694
Reshetnyak, M.; Steffen, B.
 Cascade processes in the planetary dynamo

XY0695; EGU2007-A-02251; NP6.08-1TH3P-0695
Futterer, B.; Gellert, M.; Travnikov, V.; von Larcher, Th.; Egbers, C.
 Numerical Studies for GeoFlow: Dynamics of Thermal Convection in Rotating Spherical Shells

XY0696; EGU2007-A-02898; NP6.08-1TH3P-0696
Gorshkov, K.A.; **Soustova, I.A.**; Shevz, L.M.
 Composite solitons for the Choi-Camassa model (ÑÑ-model) and their importance for the description of the evolution of internal waves without amplitude and velocity constraint.

XY0697; EGU2007-A-03417; NP6.08-1TH3P-0697
Früh, W.-G.; Maubert, P.; Read, P.L.; Randriamampianina, A.
 Direct Numerical Simulation of the transition from baroclinic to centrifugal convection

XY0698; EGU2007-A-03576; NP6.08-1TH3P-0698
Baas, A.C.W
 Aeolian Sand Transport by Boundary Layer Turbulence

XY0699; EGU2007-A-06291; NP6.08-1TH3P-0699
Duran-Matute, M.; Velasco Fuentes, O.U.
 Passage of a barotropic vortex through a gap

XY0700; EGU2007-A-07112; NP6.08-1TH3P-0700
Dell, R. W.; Patterson, M. D.; Caulfield, C. P.; Dalziel, S. B.
 Internal gravity waves generation by isolated topography in the laboratory: Lee waves and lee mountains (cancelled)

XY0701; EGU2007-A-07190; NP6.08-1TH3P-0701
Turnbull, B.; McElwaine, J.
 Non-Linearity in Avalanche Dynamics

XY0702; EGU2007-A-07702; NP6.08-1TH3P-0702
Tang, W.; Kerswell, R. R.; Caulfield, C. P.
 Upper bounds for the long-time averaged buoyancy flux in plane stratified Couette flow subject to a mixing efficiency constraint (cancelled)

XY0703; EGU2007-A-07723; NP6.08-1TH3P-0703
Scase, M. M.; **Caulfield, C. P.**; Dalziel, S. B.; Hunt, J. C.
 Temporal variations of plumes with sudden reduction in buoyancy flux

XY0704; EGU2007-A-02881; NP6.08-1TH3P-0704
Poulin, F.J.; Flierl, G.R.
 Stochastic Baroclinic Instability

XY0705; EGU2007-A-11202; NP6.08-1TH3P-0705
Flor, J.B.
 Vortex Rossby-wave interactions

XY0706; EGU2007-A-11390; NP6.08-1TH3P-0706
Tang, W.; Caulfield, C. P.; **Young, W. R.**
 Bounds on dissipation in stress driven flow in a rotating frame (cancelled)

XY0707; EGU2007-A-09126; NP6.08-1TH3P-0707
Balmforth, N.; Peacock, T
 Tidal conversion by supercritical topography

XY0708; EGU2007-A-11385; NP6.08-1TH3P-0708
Guyez, E.; Flor, J.-B.; Hopfinger, E.
 Change in mixing efficiency in Taylor-Couette flow

XY0709; EGU2007-A-10988; NP6.08-1TH3P-0709
Slim, A.; Balmforth, N
 Elastic-skinned gravity currents

XY0710; EGU2007-A-11189; NP6.08-1TH3P-0710
Flor, J.B.
 Stability regimes of density fronts in spinup flows

XY0711; EGU2007-A-11388; NP6.08-1TH3P-0711
Rust, A. C.; Balmforth, N. J.; Mandre, S.
 The feasibility of generating low frequency seismicity by flow through a deformable channel

XY0712; EGU2007-A-07138; NP6.08-1TH3P-0712
Dalziel, S. B.; Patterson, M. D.; Caulfield, C. P.
 Mixing in high aspect ratio Rayleigh-Taylor flow (cancelled)

Ocean Sciences

OS3 Ocean Tracers and Anthropogenic CO₂ (co-listed in BG & CL)

Convener: Schlosser, P.
 Co-Convener(s): Wallace, D., GRUBER, N.
 Lecture Room D
 Chairperson: N.N.

8:30–8:45; EGU2007-A-04679; OS3-1TH10-001
Jenkins, W. J.

Using tritium and helium-3 to study ocean circulation and ventilation (solicited)

8:45–9:00; EGU2007-A-05789; OS3-1TH10-002
Mikaloff Fletcher, S. E.; Gruber, N.; Jacobson, A. R.; Sarmiento, J. L.; Gloor, M.; Ocean Inversion Modelers, The Inverse estimates of natural and anthropogenic air-sea carbon flux (solicited)

9:00–9:15; EGU2007-A-05086; OS3-1TH10-003
Ledwell, J.; Smethie, W.; Ho, D.
 The use of SF₅CF₃ for tracer release experiments (solicited)

9:15–9:30; EGU2007-A-05912; OS3-1TH10-004
Schlosser, P.; Newton, R.; Winckler, G.; Truong, G.; Spieler, A.
 Deep ocean mixing in the South Pacific: implications from the distribution of mantle He-3

9:30–9:45; EGU2007-A-07771; OS3-1TH1O-005

Friedrich, T.; Oschlies, A.; Eden, C.

Neural-network based mapping of pCO₂ from simulated VOS, float and remote sensing data generated by an eddy-resolving North Atlantic model

9:45–10:00; EGU2007-A-06096; OS3-1TH1O-006

Ilyina, T.; Zeebe, R.; Maier-Reimer, E.; Heinze, C.

Modeling Early Signs of Ocean Acidification Effects on Marine Calcification

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-09891; OS3-1TH2O-001

Bullister, J.; Sonnerup, R.; Wisegarver, D.

The use of CFCs and Sulfur Hexafluoride to Better Constrain Estimates of Anthropogenic CO₂ Uptake in the Ocean (solicited)

10:45–11:00; EGU2007-A-02184; OS3-1TH2O-002

Schlitzer, R.

Assimilation of radiocarbon and chlorofluorocarbon data to constrain deep and bottom water transports in the world ocean (solicited)

11:00–11:15; EGU2007-A-08761; OS3-1TH2O-003

Terenzi, F.; Hall, T.M.; Khaliwala, S.

Uptake of Anthropogenic Carbon by the Labrador Sea Water Using an Accelerate Simulation with an Ocean Circulation Model

11:15–11:30; EGU2007-A-10165; OS3-1TH2O-004

Lachkar, Z.; Orr, J.; Dutay, J.-C.; Delecluse, P.

Antarctic Intermediate Water Formation and Anthropogenic CO₂ Uptake (solicited)

11:30–11:45; EGU2007-A-05725; OS3-1TH2O-005

Ho, D.T.; Schlosser, P.; Law, C.S.; Smith, M.J.

Constraining gas exchange parameterizations with 3He/SF₆ tracer release experiments: Implications for global ocean CO₂ uptake (solicited)

11:45–12:00; EGU2007-A-09536; OS3-1TH2O-006

Smith, J.N.; Smethie Jr., W.M.

129I Transport through the Labrador Sea in Denmark Strait Overflow Water

12:00 END OF SESSION

OS4 Operational Oceanography: Skill Assessment and Error Analysis (co-listed GI, NP)

Convener: Proctor, R.

Co-Convener(s): Bertino, L., Coelho, E.

Lecture Room 3

Chairperson: N.N.

8:30–8:45; EGU2007-A-02461; OS4-1TH1O-001

Harding, J.; Bub, F.; Dehaan, C.; Mask, A.

Skill assessment of operational ocean predictions at the U.S. Naval Oceanographic Office

8:45–9:00; EGU2007-A-04636; OS4-1TH1O-002

Barron, C.N.; Smedstad, L.F.; Dastugue, J.M.; Smedstad, O.M.

Using drifter observations to assess skill of proposed upgrades for operational global ocean models

9:00–9:15; EGU2007-A-06222; OS4-1TH1O-003

Martin, M.; **Storkey, D.**

Validation of surface currents from operational ocean models against surface drifter data

9:15–9:30; EGU2007-A-09647; OS4-1TH1O-004

Hernandez, F.; Crosnier, L.; Drevillon, M.; Domrowsky, E.; Verbrugge, N.

Metrics for the global ocean, under the GODAE and MERSEA framework : Application with the Mercator Ocean Global system

9:30–9:45; EGU2007-A-11575; OS4-1TH1O-005

Bertino, L.; Lisæter, K.A.; Høydalsvik, F.

Assessment metrics for the TOPAZ monitoring and prediction system

9:45–10:00; EGU2007-A-11533; OS4-1TH1O-006

Hogan, P. J.; Smedstad, O.M.; Cummings, J.; Wallcraft, A. Shelf break processes in the Gulf of Mexico from simulations with a Hybrid Coordinate Ocean Model

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-04615; OS4-1TH2O-001

Shulman, I.; Rowley, C.; Anderson, S.; Kindle, J.; DeRada, S.; Doyle, J.; Cummings, J.

Impact of glider data assimilation on model predictions of surface and subsurface properties.

10:45–11:00; EGU2007-A-05734; OS4-1TH2O-002

Holt, M.; **Hyder, P.;** Siddorn, J.; Mahdon, R.; O'Dea, E.; Proctor, R.; Holt, J.; Wakelin, S.; Allen, I.

Evaluating the performance of real-time forecast models of the NW European shelf seas

11:00–11:15; EGU2007-A-05616; OS4-1TH2O-003

Schrum, C.; Alekseeva, I.; Janssen, F.; Diekmann, R.; St. John, M

Skill assessment for the coupled physical-biological model ECOSMO

11:15–11:30; EGU2007-A-08974; OS4-1TH2O-004

Allen, J.I.; Blackford, J.C.; Holt, J.T.; Lewis, K.; **Proctor, R.;** Richardson, A.

Skill assessment of a coupled hydrodynamic-ecosystem coastal-ocean model

11:30–11:45; EGU2007-A-09540; OS4-1TH2O-005

Dobricic, S.; Pinardi, N.; Adani, M.; Tonani, M.; Fratianni, C.; Bonazzi, A.; Fernandez, V.

Daily oceanographic analysis scheme in the Mediterranean Sea

11:45–12:00; EGU2007-A-05706; OS4-1TH2O-006

Bonazzi, A.; Pinardi, N.; Milliff, R.; Berliner, L.; Winkle, C.

A new ensemble ocean forecasting method driven by surface wind distributions from a Bayesian hierarchical model: Forecast uncertainty sensitivities

12:00 END OF SESSION

OS15 Fate of riverine matter in marine environments: pathways, feedbacks, characterization and quantification (co-listed in BG)

Convener: Kim, J.

Co-Convener(s): Wagner, T., BONNIN, J.

Lecture Room 7

Chairperson: KIM, J.-H. AND WAGNER, T.

8:30–8:45; EGU2007-A-02141; OS15-1TH1O-001

Neumann, T.

The fate of river-borne nitrogen in the Baltic Sea – an example for the River Oder

8:45–9:00; EGU2007-A-00702; OS15-1TH10-002
Vonk, J. E.; van Dongen, B. E.; Gustafsson, O.
 The distribution of terrestrial biomarkers along an estuarine-basin transect in the northern Bothnian Bay

9:00–9:15; EGU2007-A-07242; OS15-1TH10-003
Cook, M.P.; Talbot, H. M.; Eniola, O.; **Wagner, T.;** Buscail, R.; Heussner, S.
 Tracking soil organic carbon transport to continental margin sediments using soil specific Bacterioplanepolyol biomarkers

9:15–9:30; EGU2007-A-05835; OS15-1TH10-004
Zhu, C.; Pan, J.; Wagner, T.; Pancost, R.
 Input and transport of organic matter in Yangtze River estuary and its adjacent shelf areas, biomarkers-based study

9:30–10:00; EGU2007-A-01655; OS15-1TH10-005
Kennedy, M.; Derkowski, A.
 Organic carbon enrichment controlled by smectitic clays in the Miocene Monterey Formation and Cretaceous Pierre Shale (solicited)

10:00 END OF SESSION

OS16 Model development for large- and small-scale processes in the ocean (co-listed NP)

Convener: Deleersnijder, E.
 Co-Convener(s): Schröter, J., Oschlies, A., Lermusiaux, P.
 Lecture Room D
 Chairperson: N.N.

13:30–13:45; EGU2007-A-04385; OS16-1TH30-001
Bernsen, E.; Dijkstra, H.A.
 A new approach for the reduction of spin-up time of ocean models

13:45–14:00; EGU2007-A-05957; OS16-1TH30-002
Primeau, F.; Li, X.; Kwon, E.Y.
 Fully implicit global ocean-biogeochemistry model

14:00–14:15; EGU2007-A-06039; OS16-1TH30-003
Hense, I.
 Feedback mechanisms between cyanobacteria and their environment - insights from numerical experiment

14:15–14:30; EGU2007-A-08653; OS16-1TH30-004
Cahill, B.; Bissett, P.; Schofield, O.
 Bio-physical modeling of the Hudson River plume dynamics from a bio-optical perspective: implementation of ROMS/EcoSim for LaTTe 2005

14:30–14:45; EGU2007-A-01559; OS16-1TH30-005
Cessi, P.
 A parametrization of eddy tracer flux constrained by the energy balance

14:45–15:00; EGU2007-A-02729; OS16-1TH30-006
Hordoir, R.; Polcher, J.; Brun-Cottan, J.-C.; Madec, G.
 Spotting what lacks to resolve properly river inflows in ocean general circulation models

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-05801; OS16-1TH40-001
Kitauchi, H.; Hasumi, H.
 A Labrador Sea modeling studied by a coupled sea ice-ocean circulation model

15:45–16:00; EGU2007-A-05808; OS16-1TH40-002
Yakovlev, N.
 Arctic Ocean climate simulations by the FE model and directions of further progress.

16:00–16:15; EGU2007-A-06390; OS16-1TH40-003
Oddo, P.; Pinardi, N.
 Lateral Open Boundary Conditions for Nested Limited Area Models: a scale selective approach

16:15–16:30; EGU2007-A-06627; OS16-1TH40-004
Getzlaff, J.; Oschlies, A.; Nurser, G.; Smeed, D.
 Diagnostics of diapycnal mixing z-level models

16:30–16:45; EGU2007-A-03861; OS16-1TH40-005
Hervieux, G.; Penduff, T.; Barnier, B.
 Numerical sensitivity studies of dense overflows in the DRAKKAR framework

16:45–17:00; EGU2007-A-09710; OS16-1TH40-006
Haine, T.; Zhang, H.; Waugh, D.
 On transit-time distributions in unsteady circulation models

17:00 COFFEE BREAK

Chairperson: N.N.

17:30–17:45; EGU2007-A-11313; OS16-1TH50-001
White, L.; Deleersnijder, E.; Legat, V.; Remacle, J.-F.; Bernard, P.-E.; Lambrechts, J.; Comblen, R.; Lietaer, O.; Gourgue, O.
 Toward the multi-purpose, unstructured mesh, finite element, marine model SLIM

17:45–18:00; EGU2007-A-00052; OS16-1TH50-002
Gourgue, O.; Deleersnijder, E.; Legat, V.; Marchal, E.; Naithani, J.; Plisnier, P.-D.; White, L.
 A finite element reduced-gravity model of Lake Tanganyika

18:00–18:15; EGU2007-A-04885; OS16-1TH50-003
Bricheno, L.; Piggott, M.; Cotter, C.; Ham, D.; Killworth, P.; Roberts, Z.
 Dynamically adaptive finite element analysis of open ocean deep convection; model validation and parameterisation.

18:15–18:30; EGU2007-A-10740; OS16-1TH50-004
Kramer, S.C.; Pain, C.C.; Piggott, M.D.
 An efficient solution of the large aspect ratio pressure Poisson equation in unstructured global ocean models

18:30–18:45; EGU2007-A-08330; OS16-1TH50-005
Wang, Q.; Danilov, S.; Schroeter, J.
 Representing the ocean bottom topography with z, z-sigma and sigma vertical coordinates

18:45–19:00; EGU2007-A-11372; OS16-1TH50-006
Labeur, R.J.; Wells, G.N.
 A finite element stabilization method for advection-diffusion, non-hydrostatic flow and the shallow-water equations

19:00 END OF SESSION

OS16 Model development for large- and small-scale processes in the ocean (co-listed NP) – Posters

Convener: Deleersnijder, E.
 Co-Convener(s): Schröter, J., Oschlies, A., Lermusiaux, P.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 10:30–12:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0713; EGU2007-A-07970; OS16-1TH2P-0713
Blayo, E.; Debreu, L.; Dumas, F.; Garnier, V.; Marin, J.; Robert, C.; **Vandermeirsch, F.**
Investigation of 2-D and 3-D characteristic-based open boundary conditions for regional ocean models

XY0714; EGU2007-A-07992; OS16-1TH2P-0714
Karleskind, P.; Memery, L.; Levy, M
A 1-year mesoscale simulation of the biogeochemistry in the north-eastern atlantic ocean

XY0715; EGU2007-A-08236; OS16-1TH2P-0715
Schroeter, J.; Danilov, S.; Sidorenko, D.; Harig, S.; Wang, Q.; Timmermann, R.; Rollenhagen, K.; Boening, C.; Janjic-Pfander, T.; Huerta-Casas, A.
FEOM, an unstructured mesh Finite Element Ocean Model

XY0716; EGU2007-A-03580; OS16-1TH2P-0716
Cotter, C.; Ham, D; Holm, D; Percival, J
A continuous/discontinuous unstructured finite element method for a new equation for modelling large-scale nonlinear internal wave interactions

XY0717; EGU2007-A-04151; OS16-1TH2P-0717
Munday, D.R.; Marshall, D.P.; Piggott, M.D.
Modelling the flow past islands using the finite element method

XY0718; EGU2007-A-11311; OS16-1TH2P-0718
Lyard, F.; Le Bars, Y.
A new unstructured model for the Amazon Estuary and shelf hydrodynamic modelling

XY0719; EGU2007-A-03382; OS16-1TH2P-0719
Hanert, E.; Deleersnijder, E.; Blaise, S.; Remacle, J.-F.
Capturing the bottom boundary layer in finite element ocean models

XY0720; EGU2007-A-03497; OS16-1TH2P-0720
Bernard, P.-E.; Chevaugueon, N.; Deleersnijder, E.; Legat, V.; Remacle, J.-F.
High-order h-adaptive discontinuous Galerkin methods for ocean modeling

XY0721; EGU2007-A-03506; OS16-1TH2P-0721
Bernard, P.-E.; Deleersnijder, E.; Legat, V.; Remacle, J.-F.
Modal analysis of dispersion and dissipation properties applied to Poincaré, Kelvin and Rossby waves with discontinuous Galerkin finite element method

XY0722; EGU2007-A-04478; OS16-1TH2P-0722
White, L.; Legat, V.; Deleersnijder, E.
Conservation and consistency in the finite element ocean model SLIM on moving unstructured meshes

XY0723; EGU2007-A-04304; OS16-1TH2P-0723
Comblen, R.; White, L.; Deleersnijder, E.; Legat, V.
Development and validation of a finite element shallow-water model in spherical geometry

XY0724; EGU2007-A-10587; OS16-1TH2P-0724
Pietrzak, J.; Labeur, R. J.
Non-hydrostatic unstructured grid modelling of trapped internal waves and lee waves

XY0725; EGU2007-A-06194; OS16-1TH2P-0725
Tsugawa, M.; Ikeda, M.; Tanaka, Y.; Kitauchi, H.; Komuro, Y.
An application of a cubic grid OGCM to a study of the role of the Agulhas Current system in the thermohaline circulation

XY0726; EGU2007-A-02734; OS16-1TH2P-0726
Hordoir, R.; Polcher, J.; Brun-Cottan, J.-C.; Madec, G.
River inflows in ocean general circulation models: a closure through energy conservation

XY0727; EGU2007-A-08595; OS16-1TH2P-0727
Lathuillière, C.; Lévy, M.; Echevin, V.; Madec, G.
The impact of the mesoscale dynamics on the coastal upwelling ecosystem : an idealized study of the Canary current system

XY0728; EGU2007-A-03818; OS16-1TH2P-0728
Krémeur, A.-S.; Lévy, M.; Aumont, O.; Reverdin, G.
Impact of the nitrate content of subtropical mode waters on primary production in the subtropical North Atlantic: results from an idealized model

XY0729; EGU2007-A-08479; OS16-1TH2P-0729
Holt, J.; Umlauf, L
Modelling the tidal mixing fronts of the northwest European continental shelf

XY0730; EGU2007-A-01702; OS16-1TH2P-0730
Klocker, A.; McDougall, T.; Jackett, D.
Quantifying the consequences of the ill-defined nature of neutral surfaces

XY0731; EGU2007-A-11371; OS16-1TH2P-0731
Delhez, E.; **Deleersnijder, E.**
Overshootings and spurious oscillations caused by biharmonic mixing

XY0732; EGU2007-A-10873; OS16-1TH2P-0732
d'Ovidio, F.; Legras, B.
A diagnostic for (sub-)mesoscale isopycnal stirring

XY0733; EGU2007-A-09895; OS16-1TH2P-0733
Spivakovskaya, D.; Heemink, A.W.; Deleersnijder, E.
Lagrangian modelling of multi-dimensional advection-diffusion with space-varying diffusivities

XY0734; EGU2007-A-02878; OS16-1TH2P-0734
Bennis, B.; Chacon, C.; Gomez, G.; Lewandowski, L
A comparison of four vertical mixing schemes with an application to the Pacific Ocean

Planetary and Solar System Sciences

PS1.0 Exploring the Solar System - Missions and Techniques – Posters

Convener: Muller, C.
Co-Convener(s): Falkner, P., Foing, B.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 08:30–10:00
Poster Area Halls X/Y
Chairperson: FOING, B.

XY0735; EGU2007-A-03260; PS1.0-1TH1P-0735
Oswald, T.H.; Macher, W.; Rucker, H.O.
Determination of the base capacitances of the STEREO/WAVES antennas

XY0736; EGU2007-A-07012; PS1.0-1TH1P-0736
Carlsson, E.; **von Euler, M.**; Grigoriev, A.; McCann, D
Habitat for Mars: a new conceptual design

Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 10:30–12:00
Poster Area Halls X/Y
Chairperson: MULLER, C.

XY0737; EGU2007-A-10222; PS1.0-1TH2P-0737
Ferencz, Cs.; **Lichtenberger, J.**; Ferencz, O.E.; Steinbach, P.; Hamar, D.
Monitoring of the planetary electromagnetic environment

XY0738; EGU2007-A-07041; PS1.0-1TH2P-0738
Cassidy, T. A.; Johnson, R. E
Using a mass spectrometer in Europa's orbit to learn about its surface (cancelled)

XY0739; EGU2007-A-00775; PS1.0-1TH2P-0739
Näränen, J.; Muinonen, K.; Parviainen, H.
 X-ray fluorescence simulations from Solar-System regoliths:
 Effects of volume fraction and particle size distribution

XY0740; EGU2007-A-08754; PS1.0-1TH2P-0740
Alberti, G.; Biccari, D.; Dinardo, S.; Mattei, S.; Orosei, R.;
 Papa, C.; Phillips, R.; Picardi, G.; Safaenili, A.; Seu, R.
 Mars Ionosphere preliminary impact analysis on SHARAD
 radar signal

PS2.4 Lunar science and exploration – Posters

Convener: Foing, B.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 15:30–17:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0741; EGU2007-A-06905; PS2.4-1TH4P-0741
Ivanov, B.
 Lunar near surface porosity: impact crater and projectile
 size-frequency distributions

XY0742; EGU2007-A-06138; PS2.4-1TH4P-0742
Sulc, P.; Travnicek, P.; Hellinger, P.; Schriver, S.; Bale, S. D.
 Structure of the lunar wake: global hybrid simulations

XY0743; EGU2007-A-01732; PS2.4-1TH4P-0743
Kochemasov, G.
 Dense basalts as a universal "remedy" regulating angular
 momentum problems of slowing rotation celestial bodies:
 the Moon, Earth, Venus

XY0744; EGU2007-A-02069; PS2.4-1TH4P-0744
Chapman, J.; Carlson, G.; Kilby, W.
 A Lunar Geosciences Database – The Earth's MapPlace
 Analog

XY0745; EGU2007-A-05714; PS2.4-1TH4P-0745
Kaydash, V.; Kreslavsky, M.; Shkuratov, Yu.; Gerasi-
 menko, S.; Pinet, P.; Chevrel, S.; Josset, J.-L.; Beauvivre, S.;
 Almeida, M.; Foing, B.
 Analysis of photometric function for selected lunar areas by
 SMART-1 AMIE data

XY0746; EGU2007-A-07473; PS2.4-1TH4P-0746
Cerroni, P.; De Sanctis, M.C.; Josset, J.L.; Beauvivre, S.;
 Besse, S.
 AMIE camera on SMART 1: a preliminary analysis of color
 information from the Oppenheimer region of the Moon

XY0747; EGU2007-A-08365; PS2.4-1TH4P-0747
Despan, D.; Erard, S.; Barucci, A.; Josset, J.-L.; Beau-
 vivre, S.; Chevrel, S.; Pinet, P.; Koschny, D.; Almeida, M.;
 the AMIE team,
 Geometrical analysis of AMIE/Smart-1 images and applica-
 tions to photometric studies of the lunar surface

XY0748; EGU2007-A-08820; PS2.4-1TH4P-0748
Backrud, M.; G. Blomberg, L.; Mälkki, A.; Schmidt, W
 Evaluation of wave measurements in the Lunar environment
 with the SPEDE instrument on SMART-1

XY0750; EGU2007-A-10162; PS2.4-1TH4P-0750
Foing, B.H.; Racca, G.; Camino, O.; SMART-1 Team, &
 SMART-1 Teams
 SMART-1 mission, techniques, travel and lessons for the
 future

XY0751; EGU2007-A-06239; PS2.4-1TH4P-0751
 Araki, H.; Tazawa, S.; Noda, H.; Tsubokawa, T.;
 Kawano, N.; **Sasaki, S.**
 Topographic Exploration of the Moon by laser altimeter
 onboard SELENE (LALT)

XY0752; EGU2007-A-01675; PS2.4-1TH4P-0752
Kato, M.; Takizawa, Y.; Sasaki, S.; The SELENE TEAM
 Present Status of the SELENE Mission and Science Goals

XY0753; EGU2007-A-11278; PS2.4-1TH4P-0753
 Hashimoto, T.; Matsumoto, K.; JAXA Lunar and Planetary
 Exploration Team
 Japanese First Moon Lander SELENE-2

XY0754; EGU2007-A-06009; PS2.4-1TH4P-0754
 Matsumoto, K.; **Sasaki, S.**; Hanada, H.; Goossens, S.; Tsu-
 ruta, S.; Kawano, N.; Namiki, N.; Iwata, T.; Rowlands, D.
 A simulation study for anticipated accuracy of lunar gravity
 field model by SELENE tracking data

XY0755; EGU2007-A-03977; PS2.4-1TH4P-0755
Wieser, M.; Barabash, S.; Bhardwaj, A.; Sridharan, R.;
 Futaana, Y.; Asamura, K.; Holmström, M.; Lundin, R.;
 Wurz, P.
 Chandrayaan-1 Energetic Neutrals Analyzer: First calibra-
 tion results

XY0756; EGU2007-A-05118; PS2.4-1TH4P-0756
Schorghofer, N.; Taylor, G.J.
 Subsurface Migration of H₂O at Lunar Cold Traps

XY0757; EGU2007-A-10117; PS2.4-1TH4P-0757
Foing, B.H.; International Lunar Exploration Working
 Group, ILEWG
 ILEWG Rationale and Roadmap for Lunar Exploration

XY0758; EGU2007-A-06739; PS2.4-1TH4P-0758
Kempf, S.; Srama, R.; Moragas-Klostermeyer, G.;
 Henkel, H.; Laufer, R.; Grün, E.
 Dust detector for a Lunar orbiter

XY0759; EGU2007-A-08630; PS2.4-1TH4P-0759
 Skalsky, A.; Mogilevsky, M.; Zeleniy, L
 Moon as a base for fundamental space research: low
 frequency radioastronomy from its surface

XY0760; EGU2007-A-08097; PS2.4-1TH4P-0760
Seboldt, W.
 In-situ resources on the Moon

XY0761; EGU2007-A-10649; PS2.4-1TH4P-0761
Ball, A.J.; The PPARC / SSTL MoonLITE / MoonRaker
 Team
 Low-cost lunar mission options: MoonLITE and MoonRaker

XY0762; EGU2007-A-10243; PS2.4-1TH4P-0762
Foing, B.H.; European Lunar Lander Working Group
 Concepts for Lunar Landers and Sample Return Missions

PS3.0 Outer planets and satellites (including David Bates Medal Lecture)

Convener: Coustenis, A.
 Co-Convener(s): Atreya, S.
 Lecture Room 15 (F2)
 Chairperson: STROBEL, D.

8:30–8:45; EGU2007-A-05813; PS3.0-1TH1O-001
Strobel, D
 Titan Aeronomy (solicited)

8:45–9:00; EGU2007-A-10105; PS3.0-1TH1O-002
Hartle and/CAPS Team, R.; CAPS Team
 Ion composition at Titan's magnetosphere-ionosphere tran-
 sition region

9:00–9:15; EGU2007-A-01865; PS3.0-1TH1O-003
Coustenis, A.; Jennings, D.; Jolly, A.; Bénilan, Y.; Gau-
 tier, D.; Nixon, C.; Flasar, M.; Achterberg, R.; Conrath, B.;
 Vinatier, S.
 Titan's stratospheric composition (solicited)

9:15–9:30; EGU2007-A-09749; PS3.0-1TH1O-004
Doose, L.; Tomasko, M.; Engel, S.; Dafoe, L.; West, R.; Lemmon, M
 Titan's Atmospheric Aerosols

9:30–9:45; EGU2007-A-09833; PS3.0-1TH1O-005
Tomasko, M.; Bezard, B.; Doose, L.; Engel, S.; Karkoschka, E.
 Measurements of the absorption of methane at long paths and low temperature from observations on the Huygens Probe in the atmosphere of Titan

9:45–10:00; EGU2007-A-10343; PS3.0-1TH1O-006
Hirtzig, M.; Rodriguez, S.; leMouélic, S.; Sotin, C.; Coustenis, A.; Drossart, P.; Combes, M.; Gendron, E.; Lai, O
 Monitoring Titan's atmospheric dynamical activity during the last decade (solicited)

10:00–10:15; EGU2007-A-10887; PS3.0-1TH1O-007
Barth, E. L.; Rafkin, S. C.
 Clouds and Precipitation on Titan Modeled with the Titan Regional Atmospheric Modeling System (TRAMS)

10:15 COFFEE BREAK

Chairperson: COUSTENIS, A.

10:30–10:45; EGU2007-A-10171; PS3.0-1TH2O-001
Sotin, C.; LeCorre, L.; LeMouélic, S.; Rodriguez, S.; Brown, R.H.; Barnes, J.W.; Griffith, C.; Jaumann, R.; Soderblom, L.; THE VIMS IMPLEMENTATION TEAM
 The recent VIMS observations of Titan's surface and atmosphere : implications for the methane cycle (solicited)

10:45–11:00; EGU2007-A-08896; PS3.0-1TH2O-002
Luz, D.
 15 years of Titan General Circulation Modeling (solicited)

11:00–11:15; EGU2007-A-06759; PS3.0-1TH2O-003
Lavvas, P.; Coustenis, A.; Vardavas, I.M.
 Titan's atmospheric structure: Chemistry, Haze & Temperature.

11:15–11:30; EGU2007-A-05739; PS3.0-1TH2O-004
McCord, T. B.; Hayne, P.; Combe, J.-P.; Hansen, G. B.; Barnes, J. W.; Buratti, B.; Baines, K. H.; Brown, R. H.; Nicholson, P.
 Titan: Surface composition from Cassini VIMS (solicited)

11:30–11:45; EGU2007-A-04694; PS3.0-1TH2O-005
Paganelli, F.; Janssen, M.; Stiles, B.; Johnson, W.T.K.; Lorenz, R. D.; Lunine, J.I.; and the Cassini Radar Team, .
 Titan's northern lakes and terrains from SAR and high-resolution radiometry (solicited)

11:45–12:00; EGU2007-A-04579; PS3.0-1TH2O-006
Lorenz, R.; The Cassini RADAR Team
 Cassini RADAR - New Results on Titan's Diverse Surface (solicited)

12:00–12:15; EGU2007-A-11529; PS3.0-1TH2O-007
Mitchell, J.L.; Lorenz, R.D.
 The drying of Titan's dunes: A link between climate and surface morphology

12:15 LUNCH BREAK

Chairperson: DOUGHERTY, M.

13:30–13:45; EGU2007-A-05101; PS3.0-1TH3O-001
Nelson, R. M.; THE CASSINI VIMS BRIGHTSPOT TEAM
 Saturn's Titan: Evidence for surface activity

13:45–14:00; EGU2007-A-04848; PS3.0-1TH3O-002
Jaumann, R.; Brown, R. H.; Stephan, K.; Soderblom, L. A.; Sotin, C.; Le Mouélic, S.; Barnes, J.; Clark, R. N.; Buratti, B. J.; et, al.
 Erosion on Titan

14:00–14:15; EGU2007-A-05428; PS3.0-1TH3O-003
Brown, R. H.; Barnes, J. W.; Sotin, C.; Jaumann, R.; Soderblom, L. A.; Buratti, B.; Clark, R.; Baines, K.; Nicholson, P.; LeMouélic, S.
 A large, tectonic complex in Titan's southern hemisphere – Impact spawned? (solicited)

14:15–14:30; EGU2007-A-02462; PS3.0-1TH3O-004
Rappaport, N.J.; Iess, L.; Tortora, P.; Somenzi, L.; Wahr, J.M.; Lunine, J.I.; Armstrong, J.W.; Asmar, S.W.
 Titan's gravity and interior structure (solicited)

14:30–14:45; EGU2007-A-04971; PS3.0-1TH3O-005
Tobie, G.; Choukroun, M.; Gautier, D.; Grasset, O.; Hersant, F.; Le Corre, L.; Le Mouélic, S.; Rannou, P.; Rodriguez, S.; Sotin, C.
 Release of volatiles from Titan's interior: origin, evolution and consequences. (solicited)

14:45–15:00; EGU2007-A-05413; PS3.0-1TH3O-006
Dougherty, M. K.; Khurana, K. K.; Neubauer, F. M.; Russell, C. T.; Saur, J.; Leisner, J. S.; Burton, M. E.
 Discovery of a Dynamic Atmosphere at Enceladus from Cassini Magnetometer Observations (solicited)

15:00–15:15; EGU2007-A-04731; PS3.0-1TH3O-007
Niemann, H.; Demick-Monterlara, J. **Owen, T.;** Raulin, F
 The Composition of Titan's Surface at the Probe Landing Site

15:15 END OF SESSION

PS3.1 Satellites and rings

Convener: Ferrari, C.
 Co-Convener(s): Spilker, L.
 Lecture Room 15 (F2)
 Chairperson: ROATSCH, T.

15:30–15:45; EGU2007-A-09565; PS3.1-1TH4O-001
Esposito, LW
 Cassini observations and the history of Saturn's rings (solicited)

15:45–16:00; EGU2007-A-05103; PS3.1-1TH4O-002
Nelson, R. M.; The CASSINI VIMS RINGS OE TEAM
 Implications of the opposition surge observed in Saturn's rings

16:00–16:15; EGU2007-A-04673; PS3.1-1TH4O-003
Spilker, L.; Pilorz, S.; Altobelli, N.; Pearl, J.; Edgington, S.; Leyrat, C.; Ferrari, C.; Wallis, B.; Flasar, F.
 Cassini CIRS Observations of Temperatures in Saturn's Main Rings with Changing Viewing Geometry

16:15–16:30; EGU2007-A-04735; PS3.1-1TH4O-004
Leyrat, C.; Spilker, L.J.; Ferrari, C.; Pilorz, S.; Altobelli, N.; Edgington, S.; Flasar, F.
 Three years of CASSINI/CIRS observations of Saturn's rings : the azimuthal scans perspective

16:30–16:45; EGU2007-A-04412; PS3.1-1TH4O-005
Wang, Z.; Gurnett, D.A.; Spangler, S.R.; Kurth, W.S.; Hedman, M.M.; Burns, J.A.; Srama, R.; Gruen, E.
 Optical properties of small particles near Saturn's G ring

16:45–17:00; EGU2007-A-03800; PS3.1-1TH4O-006
Vermeersen, B.; Kleuskens, M.; van Barneveld, L.
 Effects of a Slush Layer on Tidal Deformation and Differential Rotation of Europa

17:00–17:15; EGU2007-A-07663; PS3.1-1TH4O-007
Rambaux, N.; Karatekin, O.; Van Hoolst, T.
 Librations and ice shell thickness of Europa

17:15 COFFEE BREAK

Chairperson: SPILKER, L.

17:30–17:45; EGU2007-A-11219; PS3.1-1TH5O-001
Matson, D.L.
 Enceladus' Geochemistry: When? Where? (solicited)

17:45–18:00; EGU2007-A-04974; PS3.1-1TH5O-002
Tobie, G.; Cadek, O.; Sotin, C.
 Tidal heating, liquid water and the origin of the South Polar Hot Spot on Enceladus

18:00–18:15; EGU2007-A-04840; PS3.1-1TH5O-003
Jaumann, R.; Stephan, K.; Hansen, G. B.; Clark, R. N.; Buratti, B. J.; Brown, R. H.; Baines, K. H.; Bellucci, G.; Coradini, A.; et, al.
 Distribution of icy particles across Enceladus' surface as derived from Cassini-VIMS measurements

18:15–18:30; EGU2007-A-06409; PS3.1-1TH5O-004
Kempf, S.; Srama, R.; Beckmann, U.; Economou, T.; Spahn, F.; Schmidt, J.; **Grün, E.**
 The E ring as seen by the Cassini dust detector (solicited)

18:30–18:45; EGU2007-A-08276; PS3.1-1TH5O-005
Schmidt, J.; Brilliantov, N.V.; Spahn, F.; Team, CDA
 Enceladus' plume: Formation and dynamics of icy grains

18:45–19:00; EGU2007-A-07518; PS3.1-1TH5O-006
Beckmann, U.; Kempf, S.; Srama, R.; Moragas-Klostermeyer, G.; Helfert, S.; $\text{Gr}\ddot{\text{A}}^1/4\text{n}$, E.
 Dynamics of Enceladus' plume particles

19:00–19:15; EGU2007-A-06780; PS3.1-1TH5O-007
Postberg, F.; Kempf, S.; Hillier, J.K.; Srama, R.; Beckmann, U.; Green, S.F.; McBride, N.; Grün, E.
 Chemical signatures of Enceladus in the composition of E-ring particles

19:15 END OF SESSION

PS5.3 Connections in the Solar System - Space Weather

Convener: Breen, A.
 Lecture Room 8
 Chairperson: BREEN, A.

17:30–17:45; EGU2007-A-01334; PS5.3-1TH5O-001
Tsurutani, B.T.; The Recurrent Magnetic Storm Team
 Fast solar wind streams, embedded Alfvén waves and relativistic electron acceleration

17:45–18:00; EGU2007-A-03121; PS5.3-1TH5O-002
Wik, M.; Lundstedt, H.; Wintoft, P.; Pirjola, R.; Viljanen, A.; Pulkkinen, A.
 The Sun, the solar wind and GIC effects in Sweden during geomagnetic superstorms

18:00–18:15; EGU2007-A-04711; PS5.3-1TH5O-003
Jian, L.; **Russell, C.;** Luhmann, J.; Skoug, R.; Steinberg, J.
 Multipoint Measurements of the Radial Evolution of ICMEs: The October-November 2003 Events

18:15–18:45; EGU2007-A-11724; PS5.3-1TH5O-004
Coates, A.
 Space weather effects at Titan, Venus and Mars (solicited)

18:45–19:00; EGU2007-A-09971; PS5.3-1TH5O-005
Saiz, E.; **Cid, C.;** Cerrato, Y.; Aguado, J.
 A study of the relevant magnitudes involved in triggering intense geomagnetic storms

19:00 END OF SESSION

PS5.3 Connections in the Solar System - Space Weather – Posters

Convener: Breen, A.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 15:30–17:00
 Poster Area Halls X/Y
 Chairperson: M. GRANDE

XY0763; EGU2007-A-05732; PS5.3-1TH4P-0763
Plainaki, C.; Mavromichalaki, H.; Belov, A.; Eroshenko, E.; Yanke, V.
 A preliminary study of the solar cosmic ray enhancement of 13 December, 2006

XY0764; EGU2007-A-07654; PS5.3-1TH4P-0764
Desorgher, L.; Flückiger, E. O.; Gurtner, M.
 PLANETOCOSMICS : a GEANT4 based computer code for simulating the interaction of space radiations with planets

XY0765; EGU2007-A-00926; PS5.3-1TH4P-0765
Kuznetsova, T.V.; Laptukhov, A. I.; Petrov, V.G.
 Annual and UT distribution of frequency of appearance of large geomagnetic disturbances as base for prediction of space weather hazards

XY0766; EGU2007-A-02126; PS5.3-1TH4P-0766
Xu, X
 Statistical characteristics of the day-to-day variability in the geomagnetic Sq field

XY0767; EGU2007-A-08317; PS5.3-1TH4P-0767
D'Amicis, R.; Bruno, R.; Bavassano, B.; Pietropaolo, E.; Villante, U.; Carbone, V.; Sorriso-Valvo, L.
 Scaling of the waiting time distributions of Bs and AE extreme events

XY0768; EGU2007-A-09103; PS5.3-1TH4P-0768
Stauning, P.
 The combined Polar Cap (PCC) index as a space weather parameter. Application of the unified PCN and PCS indices.

XY0769; EGU2007-A-10024; PS5.3-1TH4P-0769
Aguado, J.; Cid, C.; Saiz, E.; Cerrato, Y.
 Preliminary results from the study of the recovery phase of Dst index

PS6 Planetary, Solar and Heliospheric Radio Emissions

Convener: Galopeau, P.
 Co-Convener(s): Breen, A., Boudjada, M.
 Lecture Room 8
 Chairperson: N.N.

13:30–13:45; EGU2007-A-03907; PS6-1TH3O-001
Briand, C.B.; Lecacheux, A.L.; Zarka, P.Z.; Maksimovic, M.
 Faint drifting decameter radio bursts of the solar corona : a statistical study

13:45–14:00; EGU2007-A-02476; PS6-1TH3O-002
Li, B.; Cairns, I H.; Robinson, P A
 Numerical simulations of coronal type III solar radio bursts

14:00–14:15; EGU2007-A-04543; PS6-1TH3O-003

Bastian, T. S.

Is Interplanetary Type II Radio Emission Caused by Plasma Radiation?

14:15–14:30; EGU2007-A-09775; PS6-1TH3O-004

Burinskaya, T; Rauch, J L

The waveguide model of the Auroral Kilometric Radiation generation.

14:30–14:45; EGU2007-A-07339; PS6-1TH3O-005

Hess, S.; Zarka, P.; Mottez, F.

Distribution of electron energy and acceleration features in the jovian S-burst emission region

14:45–15:00; EGU2007-A-04264; PS6-1TH3O-006

Bastian, T. S.; FASR design team

The FASR Reference Instrument

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–16:00; EGU2007-A-07615; PS6-1TH4O-001

Cecconi, B.; Bougeret, J.-L.; Bonnin, X.; Hoang, S.; Maksimovic, M.; Goetz, K.; Bale, S. D.; Reiner, S. J.; Kaiser, M. L.; Rucker, H. O.

First Goniopolarimetric results of the STEREO/Waves instrument (solicited)

16:00–16:15; EGU2007-A-07739; PS6-1TH4O-002

Lamy, L.; Cecconi, B.; Zarka, P.; Prangé, R.

Statistical characteristics and beam properties of Saturn Kilometric Radiation deduced from Cassini Radio data

16:15–16:30; EGU2007-A-04624; PS6-1TH4O-003

Fischer, G.; Zarka, P.; Kurth, W.S.; Gurnett, D.A.; Kaiser, M.L.

Properties of Saturn's ionosphere derived from radio wave measurements of atmospheric lightning

16:30–16:45; EGU2007-A-08945; PS6-1TH4O-004

Panchenko, M.; Rucker, H.O.; Khodachenko, M.L.; Kislyakov, A.G.; Taubenschuss, U.

Quasi-periodic variations of solar wind parameters and their signatures in modulation of Saturnian Kilometric radiation.

16:45–17:00; EGU2007-A-07690; PS6-1TH4O-005

Zarka, P.; **Lamy, L.;** Cecconi, B.; Prangé, R.; Rucker, H.

Short-term variability of Saturn's Radio Period

17:00 END OF SESSION

PS7.1 Extrasolar Planets and Planet Formation Session

Convener: Cho, J.

Co-Convener(s): Rauer, H., Winterhalter, D., Hatzes, A., Krot, A.

Lecture Room 8

Chairperson: N.N.

8:30–8:45; EGU2007-A-11558; PS7.1-1TH1O-001

Wuchterl, G.; Broeg, C.; Krause, S.; Pecnik, B.; Schönke, J. Properties of the short period CoRoT-planet population I: Theoretical planetary mass spectra for a population of stars of 0.8 to 2 solar masses and orbital periods of less than 20 days (solicited)

8:45–9:00; EGU2007-A-07744; PS7.1-1TH1O-002

Levrard, B.; Correia, A.C.M; Chabrier, G.; Baraffe, I.; Selsis, F.; Laskar, J.

Tidal dissipation within hot Jupiters: a new appraisal

9:00–9:15; EGU2007-A-00918; PS7.1-1TH1O-003

Kitiashvili, I.

Influence of tidal perturbation from parent stars on evolution of exoplanets

9:15–9:30; EGU2007-A-07850; PS7.1-1TH1O-004

Lammer, H.; Khodachenko, M.L.; Lichtenegger, H.I.M.; Kulikov, Yu.N.; Wuchterl, G.

The impact of nonthermal loss processes on planet masses from Neptunes to Jupiters

9:30–9:45; EGU2007-A-03394; PS7.1-1TH1O-005

Penz, T.; Erkaev, N.V.; Kulikov, Yu. N; Lammer, H.; Micela, G.; Langmayr, D.; Biernat, H.K.

Close-in gas giant evaporation due to intense XUV radiation

9:45–10:00; EGU2007-A-10897; PS7.1-1TH1O-006

Tinetti, G.; Cornia, A.; Liang, M. C.; Vidal-Madjar, A.; Boccaletti, A.; Ehrenreich, D.; Lecavelier de Etangs, A.; Yung, Y.L.

Transmission spectra of giant and terrestrial exoplanets in the IR

10:00–10:15; EGU2007-A-05924; PS7.1-1TH1O-007

Showman, A.P.; Cooper, C.S.; Fortney, J.J.; Marley, M.S.

Atmospheric dynamics of hot Jupiters

10:15 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-11602; PS7.1-1TH2O-001

Cho, J.

Large-scale motions of extrasolar giant planet atmosphere

10:45–11:00; EGU2007-A-04748; PS7.1-1TH2O-002

Staehling, E.; Cho, J.

MHD turbulence in the atmosphere of hot extrasolar giant planets

11:00–11:15; EGU2007-A-10493; PS7.1-1TH2O-003

Stam, D.M.

Finding and characterizing ringed planets with polarimetry

11:15–11:30; EGU2007-A-09805; PS7.1-1TH2O-004

Umurhan, O.M.; Regev, O.; Shaviv, G.; Nemirowsky, A.

Global transient dynamics of Keplerian disks (solicited)

11:30–11:45; EGU2007-A-05319; PS7.1-1TH2O-005

Morishima, R.; Stadel, J.; Moore, B.

Accretion of terrestrial planets from a compact planetesimal disk

11:45–12:00; EGU2007-A-00924; PS7.1-1TH2O-006

Kitiashvili, I.

Evolution of axis rotation of exoplanet in disk

12:00–12:15; EGU2007-A-00721; PS7.1-1TH2O-007

Stracke, B.; Grenfell, J. L.; Patzer, B.; von Paris, P.; Rauer, H.

Influence of Atmospheric Chemistry on the Inner Boundary of the Habitable Zone

12:15 END OF SESSION

PS7.1 Extrasolar Planets and Planet Formation Session – Posters

Convener: Cho, J.
Co-Convener(s): Rauer, H., Winterhalter, D., Hatzes, A., Krot, A.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0770; EGU2007-A-03758; PS7.1-1TH3P-0770
Griv, E.; Yuan, C.
Gravitationally unstable protostellar disks

XY0771; EGU2007-A-00271; PS7.1-1TH3P-0771
Krot, A.
The equation for evolution of distribution function of a gas-dust proto-planetary cloud and its application for Solar system formation modeling

XY0772; EGU2007-A-05017; PS7.1-1TH3P-0772
Liu, T.Y.; Ip, W.H.
Magnetic field connection/reconnection between exoplanets and host stars

XY0773; EGU2007-A-05298; PS7.1-1TH3P-0773
Ekenbäck, A.; Holmström, M.; Lammer, H.; Selsis, F.; Lichtenegger, H.I.M
Production of Energetic Neutral Atoms at HD209458b ("Osiris")

XY0774; EGU2007-A-03571; PS7.1-1TH3P-0774
Grenfell, J. L.; Patzer, B.; **Rauer, H.;** Stracke, B.; Titz, R.; von Paris, P.
Chemical Processes affecting Ozone in Early Earth type Atmospheres

PS7.2 Atmospheric and water loss from early Mars and its implication for the origin of life – Posters

Convener: Lammer, H.
Co-Convener(s): Vago, J.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0775; EGU2007-A-00458; PS7.2-1TH4P-0775
Kaneda, K.; Terada, N.; Machida, S.
Time Variation of the Nonthermal Escape of Oxygen from Mars: A Two-Stream Model Coupled with an MHD Ionosphere Model

XY0776; EGU2007-A-00941; PS7.2-1TH4P-0776
Boesswetter, A.; Kulikov, Y.; Bagdonat, T.; Simon, S.; Motschmann, U.
3d hybrid simulations of the evolution of the Martian atmosphere

XY0777; EGU2007-A-03090; PS7.2-1TH4P-0777
Ma, Y.; **Nagy, A.**
Ion escape fluxes from Mars

XY0778; EGU2007-A-06107; PS7.2-1TH4P-0778
Vennerstrom, S.; Chanteur, G.; Modolo, R.; Dubinin, E.
The magnetic Effect of atmospheric Escape at Mars

XY0779; EGU2007-A-08198; PS7.2-1TH4P-0779
Lichtenegger, H.I.M.; Lammer, H.; Kulikov, Yu. N
The early Martian magnetic field: implication for the loss of the atmosphere and water inventory of the planet

XY0780; EGU2007-A-08678; PS7.2-1TH4P-0780
Langlais, B.
Magnetic field of Mars (solicited)

XY0781; EGU2007-A-09259; PS7.2-1TH4P-0781
Breuer, D.
Mantle degassing of Mars (solicited)

XY0782; EGU2007-A-09467; PS7.2-1TH4P-0782
Forget, F.; Montmessin, F.; Haberle, R. M.
Simulation of the early Mars climate with a General Circulation Model (solicited)

XY0783; EGU2007-A-11445; PS7.2-1TH4P-0783
Karatekin, O.; Binh San Pham, Le; Dehant, V.; Lammer, H.
Toward a climatological model for early Mars

Seismology

SM21 Research and Development in Nuclear Explosion Monitoring (co-listed in AS)

Convener: Graeber, F.
Co-Convener(s): Becker, A., Kalinowski, M.
Lecture Room 26
Chairperson: GRAEBER, F.

Infrasound technology experiments

13:30–14:00; EGU2007-A-01565; SM21-1TH3O-002
Bass, H.; Andre, B.
High-altitude infrasound propagation experiment (solicited)

14:00–14:15; EGU2007-A-06719; SM21-1TH3O-003
Zerbo, L.; Coyne, J.; Guendel, F.
An overview of the CTBTO monitoring system

14:15–14:30; EGU2007-A-07806; SM21-1TH3O-004
Ringdal, FR.; Gibbons, SG; Kvaerna, TK
Detection of Low-Magnitude Seismic Events using Array-Based Waveform Correlation

14:30–14:45; EGU2007-A-07262; SM21-1TH3O-005
Gitterman, Y.
Decoupling and DOB explosion experiments in Israel

14:45–15:00; EGU2007-A-08932; SM21-1TH3O-006
Jahnke, G.; Gestermann, N.; Hartmann, G.; Ceranna, L.; Henger, M.
Seismic Identification of the 2006 North Korean Nuclear Explosion with the IMS Network - Data Analysis and Numerical Modelling

15:00 COFFEE BREAK

Chairperson: BECKER, A.

15:30–15:45; EGU2007-A-02468; SM21-1TH4O-001
Blackman, D.K.; de Groot-Hedlin, C.; Jenkins, C.S.
Hydroacoustic study of errors in yield and location estimates for explosive sources in the southern ocean

15:45–16:00; EGU2007-A-07742; SM21-1TH4O-002
Le Pichon, A.; **Vergoz, J.;** Ceranna, L.; Green, D.
The Buncfield fire: A case study for analyzing the location capability of an infrasound network

16:00–16:15; EGU2007-A-03467; SM21-1TH4O-003
Wotawa, G.; Kalinowski, M.; Saey, P.
Computation and analysis of the radioxenon background in high Northern Latitudes based on a new emission inventory

16:15–16:30; EGU2007-A-07647; SM21-1TH4O-004
D'Amours, R.; Bean, M.; Bock, K.; Hoffman, I.; Korpach, E.; Malo, A.; Stocki, T.J.; Ungar, R.K.
Characterizing sources of emission of radioactive Xenon with the Canadian monitoring network and atmospheric transport modeling

16:30–16:45; EGU2007-A-09773; SM21-1TH40-005
Saey, P.R.J.; Becker, A.; De Geer, L.-E.; Wotawa, G.
 Radioxenon isotopes: created in an underground nuclear explosion - measured in a verification detector

16:45–17:00; EGU2007-A-04580; SM21-1TH40-006
 Li, J.G.; **Stocki, T.J.**; Japkowicz, N.; Ungar, R.K.
 Machine Learning for Compliance Verification of the Comprehensive Nuclear-Test-Ban Treaty

17:00 END OF SESSION

SM21 Research and Development in Nuclear Explosion Monitoring (co-listed in AS) – Posters

Convener: Graeber, F.
 Co-Convener(s): Becker, A., Kalinowski, M.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
 Poster Area Hall A
 Chairperson: KALINOWSKI, M.

A0365; EGU2007-A-07380; SM21-1TH5P-0365
Kvaerna, TK; Ringdal, FR
 The Capability for Seismic Monitoring of the North Korean Test Site

A0366; EGU2007-A-07286; SM21-1TH5P-0366
Le Bras, R.; Hampton, T.; Coyne, J.; Bobrov, D.; Zerbo, L.
 CTBTO seismic processing and the announced DPRK nuclear test of October 9, 2006

A0367; EGU2007-A-02149; SM21-1TH5P-0367
Kebede, F.; Koch, K.
 Assessment of the impact of interactive analysis on improvement of the automatic SEL3 product

A0368; EGU2007-A-04631; SM21-1TH5P-0368
Schurr, B.
 Cluster analysis as a tool for automatic processing of arrival times and event location

A0369; EGU2007-A-07689; SM21-1TH5P-0369
Kitov, I.; Koch, K.
 On ground truth events reported in Sweden: assessment of the IDC location calibration data

A0370; EGU2007-A-08746; SM21-1TH5P-0370
 Steinberg, D. M.; Sakov, A.; **Ben Horin, Y.**
 Seismic event location with non-detecting stations

A0371; EGU2007-A-07455; SM21-1TH5P-0371
Guilbert, J.; Sèbe, O.
 Recovering the source time function from coda waves of seismic events at regional distances using single station.

A0372; EGU2007-A-04128; SM21-1TH5P-0372
Jia, Y.
 A new quality control for f-k solutions to improve automatic processing

A0373; EGU2007-A-07928; SM21-1TH5P-0373
 Gibbons, SG; **Kvaerna, TK**; Ringdal, FR
 Considerations in Event Detection and Location using Small-Aperture Seismic Arrays

A0374; EGU2007-A-06080; SM21-1TH5P-0374
 Borleanu, F.; Popa, M.; Ghica, D.; **Radulian, M.**
 Enhancement of monitoring for local and regional earthquakes using array techniques and calibration at BURAR (northern Romania) station

A0375; EGU2007-A-04133; SM21-1TH5P-0375
Graeber, F.M.
 Making Use of Synergies between CTBT Verification Technologies: Automatic Identification of Seismic Arrivals on IMS Hydrophone Triads

A0376; EGU2007-A-09096; SM21-1TH5P-0376
Mialle, P.; LePichon, A.; Virieux, J.; Blanc, E.
 Methododology for infrasound sources localization using global propagation tables

A0377; EGU2007-A-07562; SM21-1TH5P-0377
Ceranna, L.; Le Pichon, A.; Vergoz, J.
 Analyzing the detection capability of infrasound arrays in Central Europe

A0378; EGU2007-A-04325; SM21-1TH5P-0378
Brachet, N.; Coyne, J.; Ndiath, A.; Ocal, M.
 Contribution of infrasound data at the International Data Centre

A0379; EGU2007-A-02102; SM21-1TH5P-0379
Golden, P.; Herrin, E.; Negaru, P.
 Infrasound in the “zone of silence”

A0380; EGU2007-A-02139; SM21-1TH5P-0380
Koch, K.
 A unique ground-truth infrasound source with signals observed at IMS station IS26 in Southern Germany

A0381; EGU2007-A-00521; SM21-1TH5P-0381
Moldovan, A.; Ersen, A.; Dane, I.; Moldovan, I.
 IOANE - A romanian infrasound monitoring array at Plostina - Vrancea. An evolving project on earth's whispers.

A0382; EGU2007-A-06189; SM21-1TH5P-0382
Blanc, B.; Le Pichon, L.; Ceranna, C.
 Contribution of infrasound monitoring to a global study of the upper atmosphere dynamics

A0383; EGU2007-A-04517; SM21-1TH5P-0383
Becker, A.; Wotawa, G.
 Enhanced global backtracking and uncertainty analysis for CTBT verification purposes based on various adjoint ensemble dispersion modelling techniques

A0384; EGU2007-A-06450; SM21-1TH5P-0384
Ferenczi, Z.
 Simulation studies of dispersion of air borne radionuclides from a nuclear power plant Paks

A0385; EGU2007-A-08697; SM21-1TH5P-0385
Becker, A.; Wotawa, G.; Saey, P.R.J.
 On the meteorological situation governing the emission and atmospheric transport conditions during the announced October 2006 event in North Korea

A0386; EGU2007-A-02357; SM21-1TH5P-0386
HEINRICH, P.
 Atmospheric transport modeling of natural radionuclides to determine the coupling of the Tahiti station with the general circulation.

A0387; EGU2007-A-05421; SM21-1TH5P-0387
Seibert, P.; Skomorowski, P.
 Comparison of receptor-oriented dispersion calculations based on ECMWF data and nested MM5 simulations for the Schauinsland monitoring station

A0388; EGU2007-A-08421; SM21-1TH5P-0388
Annewandter, R.; Kalinowski, M.
 Verification of Underground Nuclear Testing by Atmospheric Pumping

A0389; EGU2007-A-00380; SM21-1TH5P-0389
Tuma, M.; Kalinowski, M.
 First version of a global inventory of radioxenon emissions from nuclear power plants

A0390; EGU2007-A-07576; SM21-1TH5P-0390
Axelsson, A.; OSI Noble Gas Collaboration
 Noble Gas Measurements applied to CTBT On-Site Inspections

A0391; EGU2007-A-06134; SM21-1TH5P-0391

Plenteda, R.P.

Ad hoc algorithms and methodologies for the radionuclide CTBT treaty verification

A0392; EGU2007-A-11356; SM21-1TH5P-0392

Laban, S.; Eldesoky, A.I.

JDataFlow: A Web-Oriented Agent for Monitoring Real-Time Data Processing

A0393; EGU2007-A-06933; SM21-1TH5P-0393

Chiappini, M.C.; Italian NDC

A Regional Multidisciplinary Geophysical Monitoring Facility for Civil and Peaceful Applications

A0394; EGU2007-A-10341; SM21-1TH5P-0394

Daly, T.; Anichenko, A.; Galindo Arranz, M.; Lastowka, L.; Malakhova, M.; Mori, S.; Otsuka, R.; Schroeder, A.; Stangel, H.; Villagran-Herrera, M

A look at the Operations Centre of the Preparatory Commission for the Comprehensive Nuclear Test Ban Treaty Organisation

A0395; EGU2007-A-10423; SM21-1TH5P-0395

Lastowka, L.; Anichenko, A.; Daly, T.; Galindo Arranz, M.; Mori, S.; Malakhova, M.; Otsuka, R.; Schroeder, A.; Stangel, H.; Villagran-Herrera, M

Monitoring the International Monitoring System

SM22/MPRG18 /TS3.1 Physics and Mechanics of Earthquakes and Faulting (co-organized by MPRG & TS)

Convener: Schmittbuhl, J.

Co-Convener(s): Mair, K., Di Toro, G.

Lecture Room 26

Chairperson: N.N.

8:30–8:45; EGU2007-A-10743; SM22/MPRG18 /TS3.1-1TH1O-001

Burlini, L.; Di Toro, G.; Meredith, P.

The rock-physics interpretation of seismic tremor under the subduction zones

8:45–9:00; EGU2007-A-11588; SM22/MPRG18 /TS3.1-1TH1O-002

John, T.; Rüpke, L.; Medvedev, S.; Austrheim, H.; Podladchikov, Y.; Andersen, T.B.; Braeck, S.

About deformation, reactions, and fluids: combining petrology and modelling to better understand deeper earthquakes

9:00–9:15; EGU2007-A-05187; SM22/MPRG18 /TS3.1-1TH1O-003

Heesakkers, V.; Lockner, D.; **Reches, Z.**

The rupture zone of an m2.2 earthquake within the mechanically heterogeneous Pretorius fault-zone, Tautona mine, South Africa (NELSAM project)

9:15–9:30; EGU2007-A-06930; SM22/MPRG18 /TS3.1-1TH1O-004

Menegon, L.; Di Toro, G.; Pennacchioni, G.

Cyclic production of pseudotachylite at the brittle/ductile transition: evidence for a large-scale fault asperity

9:30–9:45; EGU2007-A-04942; SM22/MPRG18 /TS3.1-1TH1O-005

Di Toro, G.; Nielsen, S.; Takehiro, H.; Pennacchioni, G.; Pittarello, L.; Shimamoto, T.

Anatomy of a 30 Ma old earthquake from an exhumed fault (Gole Larghe Fault, Adamello, Italy)

9:45–10:00; EGU2007-A-01627; SM22/MPRG18 /TS3.1-1TH1O-006

Sulem, J.

The role of clay in thermal pressurisation of fault during rapid slip

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-06715; SM22/MPRG18 /TS3.1-1TH2O-001

Veveakis, E.; Vardoulakis, I.; Sulem, J.

Thermally driven accelerated creep of shallow faults

10:45–11:00; EGU2007-A-10201; SM22/MPRG18 /TS3.1-1TH2O-002

Schmittbuhl, J.; Chambon, G.; Corfdir, A.; Messen, Y.

Slip-Rate-and-State friction law in a thick gouge friction experiment

11:00–11:15; EGU2007-A-03151; SM22/MPRG18 /TS3.1-1TH2O-003

Davies, T R H.; McSaveney, M J

A mechanical explanation for slip weakening

11:15–11:30; EGU2007-A-08644; SM22/MPRG18 /TS3.1-1TH2O-004

Mair, K.; Abe, S.; Bjørk, T

Comparing fault zones in nature, laboratory experiments and numerical simulations using grain size and shape characteristics

11:30–11:45; EGU2007-A-09957; SM22/MPRG18 /TS3.1-1TH2O-005

Madariaga, R.

Earthquake energy balance

11:45–12:00; EGU2007-A-05583; SM22/MPRG18 /TS3.1-1TH2O-006

Aochi, H.; Ide, S.

Numerical simulation of temporal evolution of multi-scale earthquake rupture

12:00 END OF SESSION

SM22/MPRG18 /TS3.1 Physics and Mechanics of Earthquakes and Faulting (co-organized by MPRG & TS) – Posters

Convener: Schmittbuhl, J.

Co-Convener(s): Mair, K., Di Toro, G.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 17:30–19:00

Poster Area Hall A

Chairperson: N.N.

A0396; EGU2007-A-00621; SM22/MPRG18 /TS3.1-1TH5P-0396

Dor, O.; Ben-Zion, Y.; Chester, J.; Rockwell, T.; Brune, J.

Pulverized sedimentary rocks along the Mojave section of the San Andreas Fault: implications for rupture mechanism (solicited) (cancelled)

A0397; EGU2007-A-02469; SM22/MPRG18 /TS3.1-1TH5P-0397

Ferre, E.C.; Zechmeister, M.S.; Geissman, J.W.

Coseismic electric currents and the pseudotachylite magnetic blackbox

A0398; EGU2007-A-05956; SM22/MPRG18 /TS3.1-1TH5P-0398

FAMIN, V.; Nakashima, S.; Boullier, A.-M.; Fujimoto, K.

Frictional exsolution of CO₂ : a new slip-weakening mechanism

A0399; EGU2007-A-07843; SM22/MPRG18 /TS3.1-1TH5P-0399

Schleicher, A.M.; van der Pluijm, B.A.; Warr, L.N.; Tourscher, S.

Do swelling clays influence the behavior of the San Andreas Fault? New results from the San Andreas Fault Observatory at Depth (SAFOD) drill hole

A0400; EGU2007-A-10932; SM22/MPRG18 /TS3.1-1TH5P-0400

Mueller, M.; Edwards, M.A.; Zámolyi, A.; Iglseider, C.; Voit, K.; Grasemann, B.; Team ACCEL

Creep with dynamic rupture fluctuation; field evidence from exhumed polyphase cataclastic faults within an extensional regime on the Islands of Kea and Serifos (Western Cyclades, Greece)

A0401; EGU2007-A-08906; SM22/MPRG18 /TS3.1-1TH5P-0401

Kirkpatrick, J.; Shipton, Z

Characterizing km-scale faults exhumed from seismogenic depths, Sierra Nevada, California.

A0402; EGU2007-A-04967; SM22/MPRG18 /TS3.1-1TH5P-0402

Di Toro, G.; Hirose, T.; Mizoguchi, K.; Nielsen, S.

Slip-weakening distance in the presence of seismic melts

A0403; EGU2007-A-05503; SM22/MPRG18 /TS3.1-1TH5P-0403

Mitttempergher, S.; Di Toro, G.; Pennacchioni, G.

Effects of fault orientation on the fault rock assemblage of exhumed seismogenic sources (Adamello, Italy)

A0404; EGU2007-A-05223; SM22/MPRG18 /TS3.1-1TH5P-0404

Birtel, S.; Stöckhert, B.

Brittle failure and short-term ductile deformation at 500°C – the record of quartz veins beneath an exhumed low-angle normal fault

A0405; EGU2007-A-04533; SM22/MPRG18 /TS3.1-1TH5P-0405

Saillet, E.; Wibberley, C

Evolution of brittle deformation and fault growth in a high porosity sandstone analogue from the Cretaceous of the Bassin du Sud-Est, Provence, France.

A0406; EGU2007-A-08262; SM22/MPRG18 /TS3.1-1TH5P-0406

Ganerod, G.V.; Braathen, A.; Willemoes-Wissing, B.

Permeability model of extensional faults in metamorphic rocks; verification by pre-grouting in sub-sea tunnels

A0407; EGU2007-A-01835; SM22/MPRG18 /TS3.1-1TH5P-0407

Shanker, D.; Singh, V.P.; Singh, H.N.; Yadav, R.B.S.; Banerjee, M

Evidence of conducting fluid was the real cause for the generation of Gujarat earthquake (Mw 7.7) of 2001, India

A0408; EGU2007-A-01957; SM22/MPRG18 /TS3.1-1TH5P-0408

Lunn, R. J.; **Moir, H.;** Shipton, Z.K.; Willson, J. P.

Modelling spatial and temporal fault zone evolution in basement rocks

A0409; EGU2007-A-10625; SM22/MPRG18 /TS3.1-1TH5P-0409

Toussaint, R.; Johnsen, O.; Vinningland, J.L.; Maloy, K.J.; Flekkoy, E.G.; Schmittbuhl, J.

Channel formation in analog lowly consolidated gouges due to interstitial fluid flow

A0410; EGU2007-A-08485; SM22/MPRG18 /TS3.1-1TH5P-0410

Graham, C.; Stanchits, S; Dresen, G; Main, I

Source mechanisms of acoustic emissions in triaxially loaded granite

A0411; EGU2007-A-08677; SM22/MPRG18 /TS3.1-1TH5P-0411

Grob, M.; Schmittbuhl, J.; Toussaint, R.

Optical and seismic imaging of an interfacial rupture front between two annealed rough surfaces

A0412; EGU2007-A-09313; SM22/MPRG18 /TS3.1-1TH5P-0412

Hok, S.; Campillo, M.; Ionescu, I.; Cotton, F.

Influence of the damage zone non-elastic deformation on rupture dynamics: 2D and 3D numerical modeling

A0413; EGU2007-A-03554; SM22/MPRG18 /TS3.1-1TH5P-0413

Bonafede, M.; **Ferrari, C.**

Stress field around an asperity in a transform domain.

A0414; EGU2007-A-06981; SM22/MPRG18 /TS3.1-1TH5P-0414

Putelat, T.; Dawes, J. H.; Willis, J. R.

Sliding interactions between frictional interfaces

A0415; EGU2007-A-07019; SM22/MPRG18 /TS3.1-1TH5P-0415

Ziv, A.

Modeling quasi-dynamic slip on multiple fault system governed by rate- and state-dependent friction (cancelled)

A0416; EGU2007-A-03066; SM22/MPRG18 /TS3.1-1TH5P-0416

Cociani, L.; Bean, C.

Monitoring seismic velocity changes in the Gulf of Corinth using earthquakes multiplets

A0417; EGU2007-A-08396; SM22/MPRG18 /TS3.1-1TH5P-0417

Braun, T.; Cesca, S.; Piccinini, D.; Spinelli, E.; Fiordelisi, A.

source inversion of seismic events recorded in the Larderello geothermal area

A0418; EGU2007-A-08605; SM22/MPRG18 /TS3.1-1TH5P-0418

Milano, G.; Di Giovambattista, R.; Ventura, G.

Seismic activity in the transition zone between central and southern Apennines (Italy)

A0419; EGU2007-A-08841; SM22/MPRG18 /TS3.1-1TH5P-0419

Horálek, J.; Fischer, T.; Hudová, Z.

The 1997 and 2000 Swarms in West Bohemia (Central Europe): Comparison from Viewpoint of the Location, Space-time Energy Release and Source Mechanisms

A0420; EGU2007-A-10344; SM22/MPRG18 /TS3.1-1TH5P-0420

Koral, H

Rupture mechanism via surface cracks: the October 1, 1995 Dinar earthquake (Mw=6.2), SW Turkey (cancelled)

Soil System Sciences

SSS3 Soil genesis, soil quality, biological indicators and soil functions, including education (co-listed in BG)

Convener: Dilly, O.

Co-Convener(s): Wahl, N., Benedetti, A., Tate III, R., Nannipieri, P., Staunton, S., Dosso, M., Dell'Abate, M.

Lecture Room 33

Chairperson: DILLY, O.

8:30–8:45; EGU2007-A-01486; SSS3-1TH10-001

Schaaf, W.; Wecker, B.; Hüttel, R. F.

Structures and processes in initial soil genesis at lignite mining spoils

8:45–9:00; EGU2007-A-10750; SSS3-1TH1O-002

Khormali, F; Nabiollahy, K

Soil-landscape relationships in a small catchment area in western Iran

9:00–9:15; EGU2007-A-07930; SSS3-1TH1O-003

Kemmers, R.H.; Bloem, J.; Faber, J.; Jagers Op Akkerhuis, G.; Van Delft, S.P.J

A functional approach to assess soil quality parameters for ecosystem services of soils

9:15–9:30; EGU2007-A-07635; SSS3-1TH1O-004

Trinchera, A.; Benedetti, A.; Antonelli, M.; Salvatori, S.; Nisini, L.

Organic matter characterisation of amended soils under crop rotation in Mediterranean area

9:30–9:45; EGU2007-A-04100; SSS3-1TH1O-005

Bartholomeus, H.; Kooistra, L.; Schaepman, M.; Stevens, A.; Hoogmoed, W.; Spaargaren, O.

Quantitative retrieval of Soil Organic Carbon using laboratory spectroscopy and spectral indices

9:45–10:00; EGU2007-A-00847; SSS3-1TH1O-006

Bogomolova, I.; Blagodatskaya, E.; Blagodatsky, S.; Kuzyakov, Y.

Priming effects in Haplic Luvisol induced by increasing glucose amounts

10:00 COFFEE BREAK

Chairperson: NANNIPIERI, P.

10:30–10:45; EGU2007-A-03093; SSS3-1TH2O-001

Tate III, R.; San Miguel, C.; Kist, J.; Mikita, R.

Evaluation of Microbial Transitions in Human Impacted Soil

10:45–11:00; EGU2007-A-00219; SSS3-1TH2O-002

Pietramellara, G.; Ascher, J.; Ceccherini, M.T.; Guerri, G.; Nannipieri, P.

Fate of Extracellular DNA in Soil (solicited)

11:00–11:15; EGU2007-A-00018; SSS3-1TH2O-003

Schroll, R.; Levi, W.; Radl, V.; Ruth, B.; Schmid, M.; Munch, J.C.

Extreme Summer Conditions caused structural and specific functional Changes of microbial Communities in Soil

11:15–11:30; EGU2007-A-04178; SSS3-1TH2O-004

Lors, C.; Ryngaert, A.; Périé, F.; Diels, L.

Characterization of bacterial communities during a field biotreatment of PAHs contaminated soils

11:30–11:45; EGU2007-A-07348; SSS3-1TH2O-005

Abakumov, E.V.; Nadporozhskaya, M.A.; Aparin, B.F.

Soil science teaching in schools: practical results in Saint-Petersburg

11:45–12:00; EGU2007-A-04720; SSS3-1TH2O-006

Hallett, S.; Bullock, P.; Simmons, T.; Dunleavy, J

Soil-Net - The development of a soils educational web portal for schools age

12:00 END OF SESSION

SSS3 Soil genesis, soil quality, biological indicators and soil functions, including education (co-listed in BG) – Posters

Convener: Dilly, O.

Co-Convener(s): Wahl, N., Benedetti, A., Tate III, R., Nannipieri, P., Staunton, S., Dosso, M., Dell'Abate, M.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 17:30–19:00

Poster Area Hall A

Chairperson: N.N.

A0421; EGU2007-A-00094; SSS3-1TH5P-0421

Kaverin, D.A.; Zhangurov, E.V.

Genesis and properties of forest boggy-podzolic soils developed in lithologically discontinuous deposits in North-East of European Russia

A0422; EGU2007-A-00104; SSS3-1TH5P-0422

Dymov, A.A.

Changes of soils following felling

A0423; EGU2007-A-00113; SSS3-1TH5P-0423

Dorodnikov, M.; Kuzyakov, Y

Thermal stability of soil organic matter fractions and their $\delta^{13}C$ and $\delta^{15}N$ values after C3 – C4 vegetation change

A0424; EGU2007-A-00220; SSS3-1TH5P-0424

Ascher, J.; Ceccherini, M.T.; Agnelli, A.; Corti, G.; Pietramellara, G.; Nannipieri, P.

Soil: the Colours of DNA

A0425; EGU2007-A-00620; SSS3-1TH5P-0425

Blagodatskaya, E.; Blagodatsky, S.; Anderson, T.-H.; Kuzyakov, Y.

Extracellular DNA: content and persistence in native soils

A0426; EGU2007-A-01001; SSS3-1TH5P-0426

Panikov, N.

Extracellular DNA in soils: quantitative assessment, binding to soil and resistance to degradation (solicited)

A0427; EGU2007-A-01325; SSS3-1TH5P-0427

Böckelmann, U.; Lünsdorf, H.; Szwedzyk, U

The detection of extracellular DNA as a structural component in the EPS of bacterial strains (solicited)

A0428; EGU2007-A-06971; SSS3-1TH5P-0428

Poté, Dr

Kinetics of Plant Leaves Decomposition, DNA Release and Transport in Unsaturated Soil medium

A0429; EGU2007-A-00882; SSS3-1TH5P-0429

Mamilov, A.; Knoblauch, C.; Pfeiffer, E.-M.; Dilly, O.

Evaluating relative Contribution of microbial Decomposition and Erosion in Degradation of Soil Organic Matter after 18 Years of agricultural Use of Soils in North Kazakhstan

A0430; EGU2007-A-01221; SSS3-1TH5P-0430

KARABULUT, A.; TURKER, U.; GUCDEMIR, I.; AR-CAK, C.

A Geostatistical Investigation On Soil Phosphorus And Wheat Yield For Precision Farming In Semi Arid Central Anatolia

A0431; EGU2007-A-01683; SSS3-1TH5P-0431

Pietsch, D.

Structure- and process-related indicators for dry Tropical soil developments, Socotra Island (Yemen)

A0432; EGU2007-A-02947; SSS3-1TH5P-0432

Dilly, O.; Schneider, B.-U.; Rogass, C.; Stuczyński, T.; Siebielec, G.; Hallenbarter, D.; Hasenauer, H.; Mander, U.; Camilleri, M.; Hüttl, R.-F.; THE SENSOR M6 TEAM

Key sustainability issues and the spatial classification of sensitive regions in Europe

A0433; EGU2007-A-03445; SSS3-1TH5P-0433
Nii-Annang, S.; Grünewald, H.; Padmore, A.; Freese, D.; Dilly, O.; Hüttl, R.
 Microbial activity and soil quality in alley cropping systems after 9 years of re-cultivation of quaternary deposits in eastern Germany

A0434; EGU2007-A-03483; SSS3-1TH5P-0434
Fallas Dotti, M.; Meersmans, J.; Van Molle, M.
 Soil organic carbon as a function of soil type, land use and topography in tropical soils

A0435; EGU2007-A-03543; SSS3-1TH5P-0435
Sty³a, K.; Sawicka, A.
 The biochemical activity in the apple-trees orchard soil after replantation

A0436; EGU2007-A-06859; SSS3-1TH5P-0436
Conde, P.; Martín- Rubí, J.A.; Jiménez- Ballesta, R.
 Application of a chemical vulnerability index to red soils in La Mancha (Central Spain)

A0437; EGU2007-A-06880; SSS3-1TH5P-0437
Frouz, J.
 The role of soil biota in soil formation in reclaimed and non reclaimed post mining

A0438; EGU2007-A-07357; SSS3-1TH5P-0438
Pavlu, L.; Kodesova, R.; Boruvka, L.; Nikodem, A.
 Various approaches to study soil degradation in a region strongly affected by acid deposition

A0439; EGU2007-A-10325; SSS3-1TH5P-0439
Martínez-Martínez, S.; **Faz, A.;** Acosta, J. A.
 Metamorphic and Volcanic Soil Properties in Selected Natural Areas from Murcia Province, SE Spain

A0440; EGU2007-A-10391; SSS3-1TH5P-0440
Acosta, J.A.; **Faz, A.;** Martínez-Martínez, S.
 Evaluation of soil characteristics and properties evolution in different soil uses under semiarid climate, Murcia, SE Spain

A0441; EGU2007-A-10791; SSS3-1TH5P-0441
Khormali, F
 Evolution, Physico-chemical and Mineralogical Properties of Saline and Sodic Loess Derived Soils of Northern Iran

A0442; EGU2007-A-11538; SSS3-1TH5P-0442
Dosso, M.
 Using "Cafés" in France for raising awareness about soil

A0443; EGU2007-A-11540; SSS3-1TH5P-0443
Dell'Abate, M.T.; Benedetti, A.; Calza, G.
 Communication in soil science: towards a specialized or an holistic approach?

A0444; EGU2007-A-11642; SSS3-1TH5P-0444
Ribeiro, A.I.; Longo, R.M.; Melo, W.J.; Brandao, J.C.B
 Microbial biomass, deshydrogenase activity and nutrient absorption in a mining soil in the Amazon area after the introduction of Green Manure

SSS4 Organic soils, processes, mechanisms and utilization (co-listed in BG) – Posters

Convener: Szajdak, L.
 Co-Convener(s): Miano, T., Blankenburg, J.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
 Poster Area Hall A
 Chairperson: SZAJDAK, L, MIANO, T. BLANKENBURG, J.

A0445; EGU2007-A-00575; SSS4-1TH5P-0445
Golovatskaya, E.A.; Dyukarev, E.A.
 Change of the carbon cycle in oligotrophic bog in the Western Siberia at climate change

A0446; EGU2007-A-00738; SSS4-1TH5P-0446
Szajdak, L.; Brandyk, T; Szatyłowicz, J
 Physico-chemical properties of mucks from Biebrza basin

A0447; EGU2007-A-03464; SSS4-1TH5P-0447
Szajdak, L.; Szczepański, M; Bogacz, A
 The effect of peatland on limiting nitrogen expansion in agricultural landscape

A0448; EGU2007-A-07519; SSS4-1TH5P-0448
Maryanova, V.; Szajdak, L
 Chemical structure and hydrophobic and hydrophilic properties of humic acids extracted from peat soil with different reagents

A0449; EGU2007-A-07750; SSS4-1TH5P-0449
Noormets, M.; Szajdak, L; Kölli, R; Tõnutare, T
 Soil organic matter and its quality some biochemical aspects on Vaccinaceae growth areas on exhausted milled peat area

A0450; EGU2007-A-03568; SSS4-1TH5P-0450
Matyka-Sarzynska, D.; **Sokolowska, Z.;** Warchulska, P; Szajdak, L
 Effect of phosphates on release of DOM from mucks*

A0451; EGU2007-A-10033; SSS4-1TH5P-0451
Sokolowski, S.; Sokolowska, Z.
 Adsorption of gases on peat soils: the role of energetic and geometric heterogeneity

A0452; EGU2007-A-07176; SSS4-1TH5P-0452
Gierlach-Hladon, T.; Szajdak, L
 Physico-chemical properties of humic acids isolated from high peat

A0453; EGU2007-A-11200; SSS4-1TH5P-0453
Kurzwski, G.; Biernacka, E.; Szatyłowicz, J.; Gnatowski, T.
 Water sorptivity of peat and gyttja soils

A0454; EGU2007-A-11207; SSS4-1TH5P-0454
Biernacka, E.; Kurzwski, G.; Szatyłowicz, J.; Oleszczuk, R.
 Analysis of gyttja soils volume changes during drying process

A0455; EGU2007-A-03454; SSS4-1TH5P-0455
Arczynska-Chudy, E.; Jezierska-Madziar, M; Goldyn, H
 The role of hydromacrophytes in the creation of organic sediments in a small midfield pond

A0456; EGU2007-A-02646; SSS4-1TH5P-0456
Chen, H.; Billen, N.; Stahr, K.; Kuzyakov, Y.
 Effects of nitrogen and intensive mixing on decomposition of ¹⁴C-labelled maize (*Zea mays* L.) residue in soils of different land use types

A0457; EGU2007-A-03638; SSS4-1TH5P-0457
Kotowska, U.; Slawinski, C; Witkowska-Walczak, B; Włodarczyk, T; **Skierucha, W**
 Wastewater purification by an organic soil and plants

A0458; EGU2007-A-03823; SSS4-1TH5P-0458
Chaudhuri, S.; Semhi, K.; Clauer, N.
 Fractionation of rare earth elements in plants: a study of radish plants grown in separate soils of calcium smectite and illite clay minerals under a laboratory condition

A0459; EGU2007-A-06910; SSS4-1TH5P-0459
Riekie, G.; Killham, K.; Smith, J.; Baggs, E.M
 Investigating the potential for anaerobic oxidation of methane in organic soils using ¹³C-labelled methane

A0460; EGU2007-A-07113; SSS4-1TH5P-0460
Chizhikov, Y; Chernysh, A
Definition of deflation potential of a wind and many years average rates of deflation in Belarus conditions

A0461; EGU2007-A-07203; SSS4-1TH5P-0461
Sokolov, G; Gavrilchik, N
Use of organic materials of different genesis for improvement of physical properties of soils

A0462; EGU2007-A-08028; SSS4-1TH5P-0462
Pinsky, D.L.; Kurochkina, G.N.
Mechanisms formation of mineral-organic compounds in soils

A0463; EGU2007-A-09093; SSS4-1TH5P-0463
Andreeva, D.B.; Chimitorzhieva, G.D.
Humic Acids of Low Peat and Brown Coal of Transbaikal (Russia)

A0464; EGU2007-A-11235; SSS4-1TH5P-0464
Stepchenko, L.
The hormone like influence of the peat-made preparations on animals and plants

SSS8 The mechanisms, especially diffusion, by which soil organic matter influences chemical fate: Chromium as a case study (co-listed in BG)

Convener: Zsolnay, A.
Co-Convener(s): Miano, T., Sequi, P., Ciavatta, C.
Lecture Room 33
Chairperson: N.N.

13:30–13:45; EGU2007-A-04647; SSS8-1TH3O-001
Pignatello, J.J.
DOM transport in natural solids: lessons from the behavior of organic pollutants (solicited)

13:45–14:00; EGU2007-A-09907; SSS8-1TH3O-002
Maier, U.; Grathwohl, P.
Coupled modeling of vapor phase diffusion and natural attenuation of gasoline hydrocarbons in vadose zone and capillary fringe

14:00–14:15; EGU2007-A-03887; SSS8-1TH3O-003
Fuß, R.; Schroll, R.; Zsolnay, Á.
Diffusion studies with a phenylurea herbicide and a complex rhizoevadate mixture

14:15–14:30; EGU2007-A-08970; SSS8-1TH3O-004
D'Acqui, L.P.; Pucci, A.; Calamai, L.
The properties of native SOM in undisturbed soil aggregates as revealed by coupled LTA-PAS-FTIR approach

14:30–14:45; EGU2007-A-02516; SSS8-1TH3O-005
Garnier, J.; **Quantin, C.;** Montarges-Pelletier, E.; Vantelon, D.; Martins, E.S.; Guimaraes, E.; Becquer, T.
Solid speciation and availability of chromium in ultramafic soils from Niquelândia (Brazil): chemical and spectroscopic approaches

14:45–15:00; EGU2007-A-11045; SSS8-1TH3O-006
Sager, M.
Hexavalent chromium in solid samples in the environment – determination methods and case studies

15:00 END OF SESSION

SSS8 The mechanisms, especially diffusion, by which soil organic matter influences chemical fate: Chromium as a case study (co-listed in BG) – Posters

Convener: Zsolnay, A.
Co-Convener(s): Miano, T., Sequi, P., Ciavatta, C.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
Poster Area Hall A
Chairperson: N.N.

A0465; EGU2007-A-00411; SSS8-1TH5P-0465
Zaccione, C.; Cocozza, C.; Miano, T.M.
Dissolved organic carbon flows from ombrotrophic peat profiles to porewaters.

A0466; EGU2007-A-11374; SSS8-1TH5P-0466
Akagi, J.; Zsolnay, A.; Egashira, K.
How Do Dom Quality And Microbial Respiration Alter With Soil Development? A Volcanic Approach

A0467; EGU2007-A-11441; SSS8-1TH5P-0467
Drozd, J.; Lobczowski, W.; **Weber, J.**
Dissolved organic carbon (DOC) in podzols in Karkonosze, Sudety Mts, SW Poland

A0468; EGU2007-A-09551; SSS8-1TH5P-0468
Ellerbrock, R.H.; Gerke, H.H.
Interactions between SOM composition, polyvalent cations and clay content investigated by FTIR

A0469; EGU2007-A-06003; SSS8-1TH5P-0469
Christl, I.; Kretschmar, R.
Fractionation of humic acid by cation-induced coagulation

A0470; EGU2007-A-04490; SSS8-1TH5P-0470
Eusterhues, K.; Wagner, F.E.; Häusler, W.; Knicker, H.; Hanzlik, M.; Kögel-Knabner, I.; Schwertmann, U.
Ferrihydrite formed in the presence of dissolved soil organic matter

A0471; EGU2007-A-11170; SSS8-1TH5P-0471
Sempéré, R.; Tedetti, M.; Charrière, B.; Abboudi, M.; Joux, F.; Nerini, D.; Miller, W.; Mopper, K.; Panagiotopoulos, C
UV impact on dissolved organic matter availability in marine waters: subsequent effects for bacterial cycling

A0472; EGU2007-A-10634; SSS8-1TH5P-0472
Sequi, P.; Ciavatta, C.
Chromium in soil: environmental issues

A0473; EGU2007-A-00393; SSS8-1TH5P-0473
Zaccione, C.; Cocozza, C.; Cheburkin, A.; Shotyk, W.; Miano, T.M.
Chromium depletion in a Sphagnum-peat core and related humic acids.

A0474; EGU2007-A-04995; SSS8-1TH5P-0474
Colombo, CMC
Sorption of Cr(III) on mixed montmorillonite Al-Fe humic acid complexes

A0475; EGU2007-A-02782; SSS8-1TH5P-0475
Mimmo, T.; Cavani, L.; Simoni, A.; Reggiani, R.; Gessa, C E; Marzadori, C
Organic and inorganic chromium species at the soil-root interface

A0476; EGU2007-A-03086; SSS8-1TH5P-0476
Melo, W.J.; Marchiori Jr, M.; Melo, G.M.P; Melo, V.P.; Marques, M.O.
Chromium in citrus orchards in São Paulo State, Brazil

A0477; EGU2007-A-08219; SSS8-1TH5P-0477
Contini, M.; Pastrello, A.; Arcon, I.; **Leita, L.**
ChromiumVI and Humic acids interaction

A0478; EGU2007-A-09321; SSS8-1TH5P-0478
Gatti, M.; **Baffi, C.;** Silva, S.
Mobilization and plant uptake of chromium after application of tannery sludge derived fertilizers: 2-year trials in north Italy

A0479; EGU2007-A-11138; SSS8-1TH5P-0479
Tatti, E.; Decorosi, F.; Giovannetti, L.; Viti, C.
 Effect of chromium contamination on soil microbial community

A0480; EGU2007-A-11397; SSS8-1TH5P-0480
Fandeur, D.; Juillot, F.; Fritsch, E.; Olivi, L.; Cognigni, A.; Morin, G.; Ambrosi, J.P.
 Crystal chemistry of chromium in New Caledonian lateritic soils

SSS11 Hydropedology: A synergistic tool to shape EU guidelines for water and soil (co-listed in HS)

Convener: Bouma, J.
 Co-Convener(s): Lin, H., Romano, N.
 Lecture Room 33
 Chairperson: N.N.

15:30–15:45; EGU2007-A-02340; SSS11-1TH4O-001
Bouma, J

Hydropedology as a foundation for spatial planning

15:45–16:00; EGU2007-A-02038; SSS11-1TH4O-002
Vepraskas, M.

Interpreting morphological features in wetland soils using hydrologic models

16:00–16:15; EGU2007-A-00023; SSS11-1TH4O-003

Tóth, G.; Adhikari, K.; Montanarella, L.

Soil functions and threats and their linkages to water resources management: the approach of the Thematic Strategy for Soil Protection of the European Union

16:15–16:30; EGU2007-A-02555; SSS11-1TH4O-004

de Vos, J.A.; Roelsma, J.; Knotters, M.; Kselik, R.A.L.
 Water quality assessment using soil data and land use information in the Noordelijke Friese Wouden region

16:30–16:45; EGU2007-A-02550; SSS11-1TH4O-005

Schneider, M.K.; Brunner, F.; Hollis, J.M.; Stamm, C.
 Validating a hydrological classification of European soils with river discharge data

16:45–17:00; EGU2007-A-09567; SSS11-1TH4O-006

Lin, H.; Valentine, J.; Palkovics, W.; Cordrey, T.; Hepner, L.
 Hydropedology in Action: Implications to Environmental Regulations in Pennsylvania, USA

17:00 END OF SESSION

SSS11 Hydropedology: A synergistic tool to shape EU guidelines for water and soil (co-listed in HS) – Posters

Convener: Bouma, J.
 Co-Convener(s): Lin, H., Romano, N.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
 Poster Area Hall A
 Chairperson: N.N.

A0481; EGU2007-A-01451; SSS11-1TH5P-0481

Campbell, C.; **Cobos, D.;** Campbell, G.

Calibration and characterization of an improved low-cost water content sensor

A0482; EGU2007-A-02978; SSS11-1TH5P-0482

Šútor, J.; Gomboš, M.; Mati, R.; Kutlík, M.; Krejča, M.
 Soil water regime estimated from the soil water storage monitored in time

A0483; EGU2007-A-05799; SSS11-1TH5P-0483

Smettem, K.R.J

Measurement of near-saturated hydraulic properties in an aggregated soil subjected to uniaxial compression.

A0484; EGU2007-A-03129; SSS11-1TH5P-0484

Jarvis, N.; Hollis, J.; Stenemo, F.; Lindahl, A.; Dubus, I.
 Using hydropedological concepts to parameterize the pesticide fate model MACRO for EU-wide predictions

A0485; EGU2007-A-09318; SSS11-1TH5P-0485

Weynants, M.; Vereecken, H.; Javaux, M.

Using Belgian soil series classification to predict soil hydraulic properties

A0486; EGU2007-A-09405; SSS11-1TH5P-0486

Kolev, N.

Soil water content evaluation in the field by electronic measurements

Solar-Terrestrial Sciences

ST4 Oscillations of the solar interior and atmosphere

Convener: Ballai, I.
 Co-Convener(s): Gizon, L.
 Lecture Room 7
 Chairperson: GIZON, L.

17:30–18:00; EGU2007-A-06837; ST4-1TH5O-001

Shapiro, N.M.; Campilo, M.; Stehly, L.; Brenguier, F.; Ritzwoller, M.H.

Studying the Earth's interior based on correlations of ambient seismic noise (solicited)

18:00–18:30; EGU2007-A-09422; ST4-1TH5O-002

Birch, A.

Local Helioseismology of Convection (solicited)

18:30–18:45; EGU2007-A-04819; ST4-1TH5O-003

Gizon, L.; Jackiewicz, J.

OLA inversion of helioseismic traveltimes

18:45–19:15; EGU2007-A-04109; ST4-1TH5O-004

Cameron, R.; Daifallah, K.; Gizon, L.

Three-dimensional numerical simulation of wave propagation through model sunspots (solicited)

19:15 END OF SESSION

ST6 The time varying Sun – Posters

Convener: Amory-Mazaudier Christine, C.
 Co-Convener(s): Schröder, W., Gregori, G.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 13:30–15:00
 Poster Area Halls X/Y
 Chairperson: AMORY-MAZAUDIER, C.

XY0784; EGU2007-A-00624; ST6-1TH3P-0784

Cornélissen, G.; Halberg, F.; Otsuka, K

Do heliogeomagnetics override the effect of a harsh winter? No calendar year but non-photoc transyear and cishalfyear components characterize sudden cardiac death (SCD) in Minnesota

XY0785; EGU2007-A-01687; ST6-1TH3P-0785

Mirmomeni, M.; Lucas, C.; Nadjar Araabi, B.

Long-term prediction of solar activity using spectral analysis and multi input multi output neuro-fuzzy models

XY0786; EGU2007-A-01688; ST6-1TH3P-0786
Mirmomeni, M.; Lucas, C.; Shafiee, M.; Nadjar Araabi, B.
 Solar activity forecasting using spectral analysis and fuzzy descriptor models

XY0787; EGU2007-A-00584; ST6-1TH3P-0787
Kuznetsova, T.
 The time varying Sun in the solar wind velocity and in the Interplanetary Magnetic Field in near Earth space

XY0788; EGU2007-A-02571; ST6-1TH3P-0788
SCHRODER, W.
 Solar Wind auroras and comets during the Maunder-minimum

XY0789; EGU2007-A-03625; ST6-1TH3P-0789
Flatjord, J. R.; Østgaard, N.
 The characteristics of theta aurora and implications for its production mechanisms

XY0790; EGU2007-A-05520; ST6-1TH3P-0790
Komitov, B.
 The Sun's variability during last 2200 years by historical data: The solar wind and sunspots

XY0791; EGU2007-A-06538; ST6-1TH3P-0791
Demetrescu, C.; Dobrica, V.
 Long-term variations in the external ingredients of the geomagnetic field

XY0792; EGU2007-A-06043; ST6-1TH3P-0792
Wang, X.; Wurz, P.; Bochsler, P.; Klecker, B.; Inpavich, F.
 Solar wind composition and charge states with different solar magnetic activity

XY0793; EGU2007-A-04547; ST6-1TH3P-0793
Hnat, B.; Chapman, S. C.; Kiyani, K.; Rowlands, G.; Watkins, N. W.
 On the fractal nature of the magnetic field energy density in the solar wind

XY0794; EGU2007-A-07046; ST6-1TH3P-0794
Rezaei Yousefi, M. M.; Vahabie, H.; Falahi, M.; Lucas, C.; Nadjar Araabi, B.
 Input selection based on mutual information for solar activity prediction

XY0795; EGU2007-A-09127; ST6-1TH3P-0795
Barkin, Yu. V.
 Inversion model of the Sun shape varying

XY0796; EGU2007-A-00275; ST6-1TH3P-0796
Dimitrijevic, M. S.
 Variations of the Solar irradiation of the Earth and Milutin Milankovic

XY0797; EGU2007-A-10986; ST6-1TH3P-0797
Halberg, F.; Cornélissen, G.; Sothorn, R.; Mikulecky, M.; Kovac, M.; Florida, P.; Watanabe, Y.; Otsuka, K.; Mazaudier, C.; Schroeder, W.
 Solar wind's ~15-month cycle's signature in the human blood circulation: partly built-in, partly driven?

XY0798; EGU2007-A-02278; ST6-1TH3P-0798
Tavares, M. ; Azevedo, A.
 Hazard natural events and consequent connections with the solar flares during last three solar cycles

XY0799; EGU2007-A-04849; ST6-1TH3P-0799
Ouattara, F.; **Amory-Mazaudier, C.;** Legrand, J-P.; Simon, P.
 On the geomagnetic activity change from 1900 to 2000

ST8 Coupling between regions and scales: the future is multipoint and multi-instrument

Convener: Beloff, N.
 Co-Convener(s): Schwartz, S., Lester, M., Ridley, A., Gombosi, T., Vaivads, A.
 Lecture Room 11
 Chairperson: BELOFF, N.

10:30–11:00; EGU2007-A-01393; ST8-1TH2O-001
Nakamura, R.; Baumjohann, W.; Runov, A.; Asano, Y.; Fujimoto, M.; Owen, C. J.; Klecker, B.; Reme, H.; Fazakerley, A. N.; Lucek, E.
 Multi-point observations of magnetotail current sheets during reconnection events (solicited)

11:00–11:15; EGU2007-A-01635; ST8-1TH2O-002
Runov, A.; Baumjohann, W.; Nakamura, R.; Asano, Y.; Voronkov, I.
 Local structure of the near-Earth magnetotail plasma sheet during tailward flows: A multi-point view

11:15–11:30; EGU2007-A-10394; ST8-1TH2O-003
Jahn, J.-M.; Korth, A.; Liemohn, M.; Samara, M.; Elliott, H. A.
 A local-to-global view of the plasma sheet: bringing together in situ measurements, remote sensing and modelling

11:30–11:45; EGU2007-A-07844; ST8-1TH2O-004
Taylor, M.; The ISSI Cluster Double Star and ESTEC Teams
 Multi-point perspectives of Cold Dense Plasma Sheet formation

11:45–12:00; EGU2007-A-05177; ST8-1TH2O-005
Fujimoto, M.; Shinohara, I.; Tanaka, K.G.
 A theorist's Expectation of CrossScale: A Reconnection Case

12:00 LUNCH BREAK

Chairperson: SCHWARTZ, S

13:30–13:45; EGU2007-A-09642; ST8-1TH3O-001
Retinò, A.; Sundkvist, D.; Vaivads, A.; Mozer, F. S.; André, M.; Owen, C. J.
 In-situ evidence of magnetic reconnection in turbulent plasma using four-spacecraft Cluster observations

13:45–14:00; EGU2007-A-01454; ST8-1TH3O-002
Lavraud, B.; Borovsky, J. E.; Ridley, A. J.; Pogue, E. W.; Thomsen, M. F.; Reme, H.; Fazakerley, A. N.; Lucek, E. A.
 Conditioning of magnetosheath – magnetosphere coupling during low Alfvén Mach number solar wind

14:00–14:15; EGU2007-A-07245; ST8-1TH3O-003
Burgess, D.
 Comparing simulations and multi-point observations at the quasi-perpendicular bow shock

14:15–14:30; EGU2007-A-06402; ST8-1TH3O-004
Shinohara, I.; Kasaba, Y.; Fujimoto, M.; Matsukiyo, S.; Oka, M.; Seki, Y.; Shimada, N.; Sugiyama, T.; Tsubouchi, K.
 An expectation for the Cross-Scale/SCOPE missions: Collisionless shocks

14:30–15:00; EGU2007-A-01962; ST8-1TH3O-005
Baumjohann, W.; Schwartz, S.; the Cross-Scale Team
 The Cross-Scale mission (solicited)

15:00 COFFEE BREAK

Chairperson: VAIVADS, A.

15:30–16:00; EGU2007-A-08611; ST8-1TH4O-001

Owen, C.J.

On the need for multi-point, multi-scale and multi-region measurements for investigations of fundamental plasma processes in the earth's magnetosphere. (solicited)

16:00–16:15; EGU2007-A-08099; ST8-1TH4O-002

Pinçon, J.-L.; Dudok de Wit, T.; Krasnoselskikh, V.; Sahraoui, F.; Roux, A.; Cornilleau-Wehrin, N.

Interest of the multipoint multi-instrument Cross-Scale mission concept for the study of turbulence in space plasmas

16:15–16:30; EGU2007-A-09266; ST8-1TH4O-003

Balikhin, M.; Walker, S.; Hobara, Y.; Alleyne, H.; Dunlop, M.; Gedalin, M.; Krasnoselskikh, V.; Andre, M.; Yearby, K
Dynamics of nonlinear waves in the vicinity of the terrestrial bow shock

16:30–16:45; EGU2007-A-03004; ST8-1TH4O-004

Wicks, R. T.; Chapman, S. C.; Dendy, R. O.

Mutual information as a measure of spatial correlation properties of the turbulent solar wind as seen by Wind, ACE and Cluster.

16:45–17:00; EGU2007-A-00487; ST8-1TH4O-005

Savin, S.; Zelenyi, L.; Kunitsyn, V.; Safrankova, J.; Nemecsek, Z.; Amata, E.; Buechner, J.; Blecki, J.; Rauch, J.L.; Skalsky, A.

A proposal for multiscale studies of plasma transport and turbulence

17:00 COFFEE BREAK

Chairperson: FUJIMOTO, M

17:30–18:00; EGU2007-A-02820; ST8-1TH5O-001

Milan, S. E.

The role of SuperDARN in global and multi-scale studies of the magnetosphere (solicited)

18:00–18:15; EGU2007-A-05942; ST8-1TH5O-002

Strangeway, R. J.; Zesta, E.; Boudouridis, A.; Raeder, J.; Larson, D. J.; Ruohoniemi, J. M.

Field-aligned current morphology and multipoint observations: Comparisons between low altitude spacecraft, global simulations and ground-based radars

18:15–18:30; EGU2007-A-05113; ST8-1TH5O-003

Sarris, T.; Li, X.; Singer, H.

Multipoint observations of a multiday Pc5 pulsation

18:30–19:00; EGU2007-A-02477; ST8-1TH5O-004

Gombosi, T.I.; Gloer, A.; Toth, G.; Hansen, K.C.; Ridley, A.J.

Modeling ionospheric outflows with the Space Weather Modeling Framework (solicited)

19:00 END OF SESSION

ST11 Sources and sinks of energy in the substorm cycle

Convener: Rodger, A.

Lecture Room 11

Chairperson: N.N.

8:30–8:45; EGU2007-A-09604; ST11-1TH1O-001

Marghitu, O.; Hamrin, M.; Klecker, B.; Rönnmark, K.; Buchert, S.; Kistler, L.M.; André, M.; Rème, H.

Energy conversion features observed by Cluster in the plasma sheet

8:45–9:00; EGU2007-A-08004; ST11-1TH1O-002

Aikio, A. T.; Pitkänen, T.; Kozlovsky, A.; Amm, O.; Fontaine, D.; Dandouras, I.; Vaivadas, A.; Fazakerley, A.
Dynamical polar cap boundary during substorms

9:00–9:15; EGU2007-A-09382; ST11-1TH1O-003

Sarafopoulos, D.

A mechanism producing suprathermal populations and cross-tail current disruptions in the Earth's magnetotail

9:15–9:30; EGU2007-A-04742; ST11-1TH1O-004

Mende, S. B.; Angelopoulos, V.; Frey, H. U.; Carlson, C. W.; Donovan, E.; Jackel, B.; Syrjaesuo, M.
Energization of particles in substorm aurora.

9:30–9:45; EGU2007-A-03872; ST11-1TH1O-005

Milan, S. E.; Provan, G.; Hubert, B.

Magnetic flux transport in the Dungey cycle: A survey of dayside and nightside reconnection rates

9:45–10:00; EGU2007-A-04088; ST11-1TH1O-006

Hamrin, M.; Stenberg, G.; Marghitu, O.; Buchert, S.; Fazakerley, A.

Current closure and generator regions as observed by Cluster in the plasma sheet

10:00 END OF SESSION

ST12 Open session on the ionosphere and thermosphere including connections to regions above and below – Posters

Convener: Zolesi, B.

Co-Convener(s): Aruliah, A.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: ZOLESI, B.

XY0800; EGU2007-A-00026; ST12-1TH2P-0800

Klimenko, M.V.; Klimenko, V.V.; Bryukhanov, V.V.

Seasonal Variation of Parameters of F2-layer and Upper Ionosphere in Solar Activity Minimum

XY0801; EGU2007-A-00027; ST12-1TH2P-0801

Klimenko, M.V.; Klimenko, V.V.; Bryukhanov, V.V.

Seasonal Variation of Ionospheric Parameters at station Jicamarca in Solar Activity Minimum

XY0802; EGU2007-A-00175; ST12-1TH2P-0802

Chargazia, Kh.; Aburjania, G.; Kharshiladze, O.

Mechanism of Amplification and Mutual Transformation of eigen modes in the Ionosphere

XY0803; EGU2007-A-00182; ST12-1TH2P-0803

Aburjania, G.

Excitation of New Modes of the Global Weather Forming ULF Electromagnetic Waves and its Role in the Generation of the

XY0804; EGU2007-A-00231; ST12-1TH2P-0804

Muella, MTAH; de Paula, E. R.; Cerruti, A. P.; Kintner, P. M.; Kantor, I. J.; Batista, I. S.; Mitchell, C. N.

Storm-time observations of TEC, scintillations, and ionospheric irregularity zonal drifts at equatorial and low-latitude regions

XY0805; EGU2007-A-01541; ST12-1TH2P-0805

Vanhamäki, H.; Amm, O.; Viljanen, A.

Role of inductive electric fields and currents in dynamical ionospheric situations

XY0806; EGU2007-A-01926; ST12-1TH2P-0806

Kozlovsky, A.

Magnetospheric interchange instability with non-linear ionospheric feedback

XY0807; EGU2007-A-01932; ST12-1TH2P-0807

Safargaleev, V.; **Kozlovsky, A.**; Sergienko, T.; Yeoman, T.; Uspensky, M.; Wright, D.; Nilsson, H.; Turunen, T.; Kotikov, A.

Optical, radar and magnetic observations of the magnetosheath plasma capturing during a positive impulse in the IMF Bz-component

XY0808; EGU2007-A-01955; ST12-1TH2P-0808

Amm, O.; Fujii, R.

On the importance of the Cowling channel mechanism in the vicinity of the substorm breakup spiral

XY0809; EGU2007-A-01978; ST12-1TH2P-0809

Berthelier, J.-J.; Onishi, T.; Pfaff, R. F.

Simultaneous measurements of electrostatic turbulence and plasma density fluctuations gathered by probes on the DEMETER spacecraft

XY0810; EGU2007-A-02000; ST12-1TH2P-0810

Hargreaves, J.K.; Birch, M.J.; Bromage, B.J.I

D- and E-region effects in the auroral zone during a moderately active 24-hour period in July 2005.

XY0811; EGU2007-A-02186; ST12-1TH2P-0811

Woodfield, E.E.; **Aruliah, A.**; Holme, R.; Millward, G.

Effects of the neutral atmosphere on the Earth's magnetic field after a storm.

XY0812; EGU2007-A-02615; ST12-1TH2P-0812

Zherebtsov, G.A.; Pirog, O.M.; Polekh, N.M.; Romanova, E.B.; Tashchilin, A.V.

On the formation of afternoon troughs of ionization in the F-region in the East sector

XY0813; EGU2007-A-02635; ST12-1TH2P-0813

Chung, J.-K.; Lee, W.-K.; Park, J. U.; Cho, J. H.

Comparison of FORMOSAT-3/COSMIC data with Ionosonde measurements in the mid-latitude

XY0814; EGU2007-A-04722; ST12-1TH2P-0814

Codrescu, M. V.; Fuller-Rowell, T. J.; Araujo-Pradere, E. A.; Fedrizzi, M.

Memory effects in the ionosphere storm response

XY0815; EGU2007-A-05255; ST12-1TH2P-0815

Semenova, N.V.; Yahnin, A.G.

Observations of the spectral resonance structures in the range of 0.1-5 Hz in Barentsburg on Svalbard

XY0816; EGU2007-A-05271; ST12-1TH2P-0816

Zhao, B.; Wan, W.; Liu, L.; Ning, B.

Classification of ionospheric storm at the sub-equatorial ionization anomaly (SEIA) area in the Eastern Asian region

XY0817; EGU2007-A-06414; ST12-1TH2P-0817

Bencze, P.

Some remarks concerning long-term changes of the F region

XY0818; EGU2007-A-06449; ST12-1TH2P-0818

Bencze, P.

Ionospheric sporadic E and HF radio wave propagation

XY0819; EGU2007-A-07047; ST12-1TH2P-0819

Nesse, H.; Sorbo, M.; Stadsnes, J.; Mertens, C. J.; Evans, D. S.

Statistical evaluation on upper mesospheric temperature effects caused by energetic particle precipitation using NOAA and TIMED

XY0820; EGU2007-A-07322; ST12-1TH2P-0820

Nyland, I.; Stadsnes, J.; Søråas, F.; Sandanger, M. I.; Honary, F.; Evans, D. S.

Comparison Study between Cosmic Noise Absorption and Flux of Precipitating Energetic Electrons

XY0821; EGU2007-A-07374; ST12-1TH2P-0821

Agapitov, O.; **Milinevsky, G.**; Zanimonsky, Ye.

Magnetized Rossby waves in mid-latitude ionosphere F-layer

XY0822; EGU2007-A-08972; ST12-1TH2P-0822

Zapfe, B.D.; Mitchell, C.N.

Ionospheric Scintillation in the Northern Polar Region

XY0823; EGU2007-A-09258; ST12-1TH2P-0823

Stauning, P.; Troshichev, O.; Janzhura, A.

The unified Polar Cap (PC) index. Calculation procedures, quality control and interpretation

XY0824; EGU2007-A-09866; ST12-1TH2P-0824

Truhlik, V.; Bilitza, D.; Zhang, S.R.; Triskova, L.

Comparison of Topside Satellite Electron Temperatures with Incoherent Scatter Radar Measurements

XY0825; EGU2007-A-10191; ST12-1TH2P-0825

Hamar, D.; **Lichtenberger, J.**; Steinbach, P.; Ferencz, Cs.; Berthelier, J.J.; Lefeuvre, F.; Parrot, M.

Recent results on fine structure analysis of whistlers recorded onboard of LEO satellites

XY0826; EGU2007-A-11057; ST12-1TH2P-0826

Silbergleit, V.M.; Larocca, P.A.

Geomagnetic effects on the Center-West Argentina gas pipeline

XY0827; EGU2007-A-11068; ST12-1TH2P-0827

Silbergleit, V. M.; Elias, A. G.

Long-term variation of strong geomagnetic storms and its effect on ionospheric and telluric currents

XY0828; EGU2007-A-11690; ST12-1TH2P-0828

Choi, B.K.; Park, J.U.; Jo, J.H.

Real-Time Ionospheric Monitoring over South Korea using KASI GPS Network

XY0829; EGU2007-A-08005; ST12-1TH2P-0829

Boska, J.; Kouba, D.; Šauli, P.

Effects of geomagnetic activity on the E and F region ionospheric drifts.

XY0830; EGU2007-A-09107; ST12-1TH2P-0830

Marghitu, O.; Karlsson, T.; Klecker, B.

Auroral electrodynamics on arc and oval scales: Insights from a new technique

XY0831; EGU2007-A-09347; ST12-1TH2P-0831

Vanina-Dart, L.B.; Sharkov, E.A.

The solar-ionosphere-troposphere coupling in the equatorial region

XY0832; EGU2007-A-10036; ST12-1TH2P-0832

Steinbach, P.; **Lichtenberger, J.**; Ferencz, Cs.; Hamar, D.; Ferencz, O.E.; Berthelier, J.J.; Lefeuvre, F.; Parrot, M.

Parallel evaluation of spaceborne and ground-based VLF recordings: Comparative study of lightnings, spherics and whistlers in DEMETER data

XY0833; EGU2007-A-05637; ST12-1TH2P-0833

MacDougall, J.; Jayachandran, P.

Polar patches

ST13 Solar, heliospheric and atmospheric coupling with near-Earth space – Posters

Convener: Fullekrug, M.

Co-Convener(s): Crosby, N.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 15:30–17:00

Poster Area Halls X/Y

Chairperson: FULLEKRUG, M.

XY0834; EGU2007-A-00306; ST13-1TH4P-0834

Hanuse, C.; Fullekrug, M.; Blanc, E.; Lefeuvre, F.

Towards a global research community in electromagnetic coupling of the atmosphere with near-Earth space

XY0835; EGU2007-A-08389; ST13-1TH4P-0835

Chanrion, O.; Neubert, T.

2D axisymmetrical particle modelling of the production of thermal runaway electron by sprite streamers

XY0836; EGU2007-A-06636; ST13-1TH4P-0836

Usoskin, I.G.; Kovaltsov, G.A.

The effect of solar cosmic rays in the atmospheric ionization

XY0837; EGU2007-A-07721; ST13-1TH4P-0837

Aplin, K.L.; Harrison, R.G.

The effect of water vapour upon atmospheric cluster ions

XY0838; EGU2007-A-07749; ST13-1TH4P-0838

Tyasto, M. I.; Danilova, O. A.; Dvornikov, V. M.; Sdobnov, V. E.

A study of cosmic ray cutoff rigidities at disturbed period in November 2004

XY0839; EGU2007-A-05035; ST13-1TH4P-0839

Michalek, G.; Gopalswamy, N.; Yashiro, S.

The space weather forecast using a cone model for halo CMEs

XY0840; EGU2007-A-05038; ST13-1TH4P-0840

Michalek, G.; Gopalswamy, N.; Yashiro, S.

The space weather forecast using asymmetry in projected velocities for halo CMEs

ST14 Modelling and measurements of ionospheric parameters influencing radio systems – Posters

Convener: Laštovička, J.

Co-Convener(s): Bourdillon, A., Zolesi, B.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: LASTOVICKA, J.

XY0841; EGU2007-A-03581; ST14-1TH3P-0841

Lukianova, R.; **Kozlovsky, A.;** Turunen, T.

Comparison and Validation Studies related to the Modeling Ionospheric Convection and the EISCAT Observations in the Polar Cap

XY0842; EGU2007-A-04907; ST14-1TH3P-0842

Krankowski, A.; Shagimuratov, I.I.; Yakimova, G.A.; Zakharenkova, I.E.

Longitudinal features of November 2004 storm in TEC

XY0843; EGU2007-A-06457; ST14-1TH3P-0843

Behlke, R.; La Hoz, C.

Ionospheric Effects on GPS and SAR - Preliminary Results of EISCAT 3D

XY0844; EGU2007-A-01945; ST14-1TH3P-0844

Afraimovich, E. L.; Ruzhin, Yu.Ya.; Nomicos, C.; Yasukevich, Yu.V.

Faraday amplitude modulation of solar radio emission in the ionosphere and method of its correction

XY0845; EGU2007-A-01853; ST14-1TH3P-0845

Ilyushin, Ya.A.; Kabakov, R.V.

Ionospheric plasma irregularities: impact on the space-borne ultra wide band ground penetrating radar sounding.

XY0846; EGU2007-A-01193; ST14-1TH3P-0846

Maltseva, O.

Results of using the IRI model over Inskip-Rostov path

XY0847; EGU2007-A-02275; ST14-1TH3P-0847

Tomasik, M

Forecasting of the ionosphere conditions using the Nearest Neighbour (NN) algorithm

XY0848; EGU2007-A-02842; ST14-1TH3P-0848

Kouba, D.; Sauli, P.; Boska, J.; Santolik, O.

Ionospheric F-region drift measurements – results for 2006

XY0849; EGU2007-A-02837; ST14-1TH3P-0849

Kouba, D.; Sauli, P.; Boska, J.; Santolik, O.

Ionospheric drift measurements – skymap points selection

XY0850; EGU2007-A-04428; ST14-1TH3P-0850

Hayosh, M.; Soroka, S.A.; Parrot, M.

Acoustic experiments in the ionosphere with the DEMETER satellite

XY0851; EGU2007-A-05247; ST14-1TH3P-0851

Moshkova, V.; Polekh, N.; Kurkin, V.; Chistyakova, L.

Long-period wave disturbance influence on HF-propagation characteristics

XY0852; EGU2007-A-04884; ST14-1TH3P-0852

Tukhashvili, K. T.; ST14

Problems of revealing of Long-Term Trends in the Ionosphere

XY0853; EGU2007-A-02671; ST14-1TH3P-0853

Pezzopane, M.; Scotto, C.

Can the polarization tagging of the ionogram trace deceive the autoscaling methods? The Learmonth case

Stratigraphy, Sedimentology and Palaeontology

SSP3 Dynamics of Sedimentary Basins - Evolution, Salt and Fluid Dynamic (co-listed in GD & TS) – Posters

Convener: Bayer, U.

Co-Convener(s): Littke, R., Marotta, A., Thybo, H., Gajewski, D.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 17:30–19:00

Poster Area Hall A

Chairperson: N.N.

A0487; EGU2007-A-00425; SSP3-1TH5P-0487

Pirouz, M.; Gassemi, M.R.; Bahroudi, A.; Ghazipour, N.

Structural evolution of the basement and salt structures activity by using of 3D models in Firouzabad area, Zagros

A0488; EGU2007-A-00914; SSP3-1TH5P-0488

Andreev, A.

The Paleozoic Pull-Apart Basin of Eastern Slope of Southern Ural, Russia

A0489; EGU2007-A-01078; SSP3-1TH5P-0489

Francuski, M.; **Beriè, M.**

Applicability of new technologies in order to enlarge kelebija deposit reserves

A0490; EGU2007-A-02975; SSP3-1TH5P-0490

Hesse, S.; Back, S.; Franke, D.; Kukla, P.

Structural restoration of folded and faulted deepwater sedimentary units, NW Borneo

A0491; EGU2007-A-03246; SSP3-1TH5P-0491
Sandrin, A.; Nielsen, C.; Nielsen, L.; Thybo, H.
 Continental extensional related intrusion and underplating in the Danish Basin: Evidence from the seismic project ESTRID

A0492; EGU2007-A-04037; SSP3-1TH5P-0492
Duemmong, S.; Meier, K.; Gajewski, D.; Huebscher, C.
 Imaging of salt-tectonic related structures – a comparison of velocity model building techniques

A0493; EGU2007-A-05153; SSP3-1TH5P-0493
 Gottikh, R. P.; Pisotskiy, B. I.; **Plotnikova, I. N.**
 Influence of Deep Gas Systems on Geochemical Formation of Sedimentary Basin (on Example of Volgo-Ural Region)

A0494; EGU2007-A-05167; SSP3-1TH5P-0494
Muslimov, R. Kh.; Smelkov, V. M.; Borisov, A. S.
 Uniqueness of Oil Extraction in Sedimentary Basin Characterized by Development of Different Dynamical Process

A0495; EGU2007-A-06120; SSP3-1TH5P-0495
Arndt, S.; Rabbel, W.; Götze, H.-J.; Hese, F.
 Lateral seismic velocity variations in lithological units in the German North Sea sector

A0496; EGU2007-A-06593; SSP3-1TH5P-0496
Huebscher, C.; Tahchi, E.; Maillard-Lenoir, A.
 Salt tectonic and associated mud volcanism at the eastern Cyprus Arc

A0497; EGU2007-A-07504; SSP3-1TH5P-0497
Soto, R.; Casas-Sainz, A.M.; Villalain, J.J.
 Comparison between extensional AMS ellipsoids and brittle mesostructures in the Basque-Cantabrian basin (N Spain)

A0498; EGU2007-A-08942; SSP3-1TH5P-0498
Hese, F.; Arndt, S.; Götze, H.-J.; Rabbel, W.; Schlesinger, A.
 Pre-Permian structures in the German North Sea area

A0499; EGU2007-A-09282; SSP3-1TH5P-0499
Thybo, H.; Nielsen, C.; Suvorov, V.D.; Perchuc, E.; Gadzin-ski, E.
 Baikal Rift Zone: Intra-cratonic rifting without Moho uplift

A0500; EGU2007-A-10746; SSP3-1TH5P-0500
Dubille, M.; Lave, J.
 Rapid grain size coarsening between Upper and Middle Siwaliks Units: sign of an increase in the sediment flux from the Himalayas or simple sediment motion process?

SSP5/BG8 Microbial Carbonates (co-sponsored by IAS and co-organized by BG)

Convener: McKenzie, J.
 Co-Convener(s): Vasconcelos, C.
 Lecture Room 32
 Chairperson: N.N.

15:30–16:00; EGU2007-A-02538; SSP5/BG8-1TH4O-001
Visscher, P.T.
 Microbial Carbonates: Bacterial Metabolism, Exopolymeric Secretions and Communication? (solicited)

16:00–16:15; EGU2007-A-10098; SSP5/BG8-1TH4O-002
Warthmann, R.; Vasconcelos, C.; McKenzie, J.A.
 Anaerobic sulfur bacteria inducing carbonate lithification in modern- and possibly Precambrian microbial mats and stromatolites: The red-layer phenomenon

16:15–16:30; EGU2007-A-02108; SSP5/BG8-1TH4O-003
Meister, P.; Nealson, K.H.; Johnson, O.; Corsetti, F.
 Controls of spherical crystal morphology in Ca/Mg-carbonates: Results from culture experiments and field studies

16:30–17:00; EGU2007-A-02159; SSP5/BG8-1TH4O-004
Camoin, G.; Westphal, H.; Séard, C.; Heindel, K.; Yokoyama, Y.; Matsuzaki, H.; Vasconcelos, C.; Warthmann, R.; Webster, J.; IODP Expedition 310 Scientists
 Microbialites : a major component of the last deglacial reef sequence from Tahiti (IODP Expedition 310). Environmental significance and sedimentological roles. (solicited)

17:00 END OF SESSION

SSP12/BG9 New proxies in sedimentary geochemistry (co-organized by BG, co-listed in IG & CL)

Convener: Eisenhauer, A.
 Co-Convener(s): Immenhauser, A., Nögler, T.
 Lecture Room 20 (N)
 Chairperson: N.N.

10:30–10:45; EGU2007-A-01760; SSP12/BG9-1TH2O-001
Immenhauser, A.; Buhl, D.; Smeulders, G.; Kabiri, L.; Richter, D.K.
 Time Series delta26Mg Analysis in Speleothem Calcite: kinetic versus equilibrium Fractionation, Comparison with other Proxies and Implications for palaeoclimate Research

10:45–11:00; EGU2007-A-10605; SSP12/BG9-1TH2O-002
Lemarchand, E.; Chabaux, F.; Vigier, N.; Millot, R.; Pierret, M.C.
 Lithium isotope systematic in the Strengbach catchment (Vosges, France)

11:00–11:15; EGU2007-A-08606; SSP12/BG9-1TH2O-003
Cividini, D.; Lemarchand, D.; Chabaux, F.
 Vegetation cycling regulates dissolved B in forested watershed

11:15–11:30; EGU2007-A-06703; SSP12/BG9-1TH2O-004
Kisakürek, B.; Eisenhauer, A.; Erez, J.; Böhm, F.; Garbe-Schönberg, D.
 Calcium isotope fractionation in cultured *G. ruber* and *G. siphonifera*

11:30–11:45; EGU2007-A-04182; SSP12/BG9-1TH2O-005
Neubert, N.; Nögler, T.F.; Böttcher, M.E.
 H2S dependence of molybdenum isotope signatures in sediments of the Black Sea

11:45–12:00; EGU2007-A-02928; SSP12/BG9-1TH2O-006
Ryb, U.; **Matthews, A.;** Erel, Y.; Gordon, G.; Anbar, A.
 Large molybdenum isotope variations in a continental rift setting

12:00 END OF SESSION

SSP12/BG9 New proxies in sedimentary geochemistry (co-organized by BG, co-listed in IG & CL) – Posters

Convener: Eisenhauer, A.
 Co-Convener(s): Immenhauser, A., Nögler, T.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 13:30–15:00
 Poster Area Hall A
 Chairperson: N.N.

A0501; EGU2007-A-10849; SSP12/BG9-1TH3P-0501
Liebetrau, V.; Rüggeberg, A.; Fietzke, J.; Eisenhauer, A.; Flügel, S.

Stable strontium ($\delta^{88}\text{Sr}/^{86}\text{Sr}$) and U-Th isotope record of cold-water corals from the Gulf of Cadiz – potential proxy for the reconstruction of intermediate water temperatures and Mediterranean outflow intensity

A0502; EGU2007-A-05032; SSP12/BG9-1TH3P-0502
von Allmen, K.; Samankassou, E.; Nägler, T. F.; Hippler, D.; Logan, A.

$\delta^{948}\text{Sr}/^{180}\text{Sr}$ and $\delta^{948}\text{Ca}/^{44}\text{Ca}$ variations across the growth increments of the modern brachiopod *Terebratulina septentrionalis*: Record of ambient seasonal sea-surface temperature?

A0503; EGU2007-A-06599; SSP12/BG9-1TH3P-0503
 Kozdon, R.; **Eisenhauer, A.;** Weinelt, M.; Hippler, D.

A $\delta^{948}\text{Ca}/^{44}\text{Ca}$, Mg/Ca and $\delta^{948}\text{Sr}/^{180}\text{Sr}$ multi-proxy approach reveals a two phase calcification process in *N. pachyderma* (sin.)

A0504; EGU2007-A-07283; SSP12/BG9-1TH3P-0504
Müller, M. N.; Gutperlet, R.; Eisenhauer, A.; Riebesell, U.
 Coccolithophorid calcification and isotope fractionation in relation to seawater Mg/Ca ratios

A0505; EGU2007-A-01980; SSP12/BG9-1TH3P-0505
Silva Tamayo, J.C.; Nägler, T.F.; Villa, I.M.; Kyser, K.; Narbonne, G.M.; James, N.P.; Sial, A.N.; da Silva Filho, M.A.
 The aftermath of Snowball Earth: Ca- and Mo- isotope constraints on post-glacial ocean conditions

A0506; EGU2007-A-01997; SSP12/BG9-1TH3P-0506
 Silva Tamayo, J.C.; Nägler, T.F.; Ifrim, C.; Stinnesbeck, W.
 Mo-isotopes evidence for widespread anoxia during OAE-2

A0507; EGU2007-A-02817; SSP12/BG9-1TH3P-0507
Matthews, A.; Erel, Y.; Listovsky, N.; Stern, D.; Segal, I.
 Iron isotope cycling in continental sedimentary basin mineralization

A0508; EGU2007-A-10658; SSP12/BG9-1TH3P-0508
Lemarchand, E.; Schott, J.; Gaillardet, J.
 Structural-controlled isotopic fractionation during sorption of boron onto humic acids and oxides (Fe - Mn)

SSP17/BG11/CL47 Environmental perturbations during the Palaeozoic-Mesozoic interval: Organic geochemical and palynological proxies (co-organized by BG & CL)

Convener: Heimhofer, U.
 Co-Convener(s): Goetz, A.
 Lecture Room 32
 Chairperson: HEIMHOFER, U.

13:30–13:45; EGU2007-A-08073; SSP17/BG11/CL47-1TH3O-001

Vecoli, M.; Paris, F.; Videt, B.
 Middle Cambrian non-marine organic walled microfossils from the Algerian Sahara and their implications for the debate on the nature and origin of cryptospores

13:45–14:00; EGU2007-A-03677; SSP17/BG11/CL47-1TH3O-002

Hochuli, P. A.; Galfetti, T.; Brayard, A.; Bucher, H.; Weissert, H.; Vigran, J. O.
 Evidence for global climatic change in the wake of the end-Permian biotic crisis: The Olenekian – Smithian/Spathian boundary - event

14:00–14:15; EGU2007-A-02900; SSP17/BG11/CL47-1TH3O-003

van de Schootbrugge, B.; Quan, T.; Lindström, S.; Pross, J.; Fiebig, J.; Petschick, R.; Püttmann, W.; Rosenthal, Y.; Falkowski, P.G.
 Terrestrial acidification and sudden end-Triassic „Waldsterben“

14:15–14:30; EGU2007-A-01125; SSP17/BG11/CL47-1TH3O-004

Ruckwied, K.; **Götz, A.E.;** Pálffy, J.; Michálik, J.
 Palynological evidence of climatic change at the T/J boundary

14:30–14:45; EGU2007-A-09956; SSP17/BG11/CL47-1TH3O-005

Pacton, M.; Fiet, N.; Gorin, G.; Spangenberg, J.E.
 Lower Cretaceous oceanic anoxic event OAE1b: organic matter accumulation mediated by bacterial activity

14:45–15:00; EGU2007-A-00280; SSP17/BG11/CL47-1TH3O-006

Dutta, S.; Brocke, R.; Hartkopf-Fröder, C.; Greenwood, P.; Littke, R.; Mann, U.; Wilkes, H.
 Biogeomacromolecules of Palynomorphs

15:00 END OF SESSION

SSP17/BG11/CL47 Environmental perturbations during the Palaeozoic-Mesozoic interval: Organic geochemical and palynological proxies (co-organized by BG & CL) – Posters

Convener: Heimhofer, U.
 Co-Convener(s): Goetz, A.
 Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
 Poster Area Hall A
 Chairperson: GOETZ, A.E.

A0509; EGU2007-A-11251; SSP17/BG11/CL47-1TH5P-0509

Vecoli, M.;
 Palynological and geochemical characterization of Early Silurian “Hot Shales” in Southern Tunisia (“SEREPT” boreholes Tt 1 and Lg 3)

A0510; EGU2007-A-01763; SSP17/BG11/CL47-1TH5P-0510

Conradi, F.A.; Goetz, A.E.; Rameil, N.; McCabe, R.
 Integrating chemostratigraphy and palynofacies into sequence stratigraphic models: A case study of the Lower Muschelkalk (Anisian) from the Germanic Basin

A0511; EGU2007-A-02354; SSP17/BG11/CL47-1TH5P-0511

Skupien, P.;
 Anoxic sedimentation and environmental change in the Lower Cretaceous in the Outer Western Carpathians (palynological and Corg proxies)

A0512; EGU2007-A-02355; SSP17/BG11/CL47-1TH5P-0512

Skupien, P.;
 Upper Cretaceous dinoflagellates and palaeoenvironmental change of the Silesian basin (Outer Western Carpathians)

A0513; EGU2007-A-00931; SSP17/BG11/CL47-1TH5P-0513

Götz, A.E.; Feist-Burkhardt, S.; Ruckwied, K.
 Eustatic signatures of an Upper Cretaceous carbonate system (Vocontian Basin, SE France): palynological and sedimentary record

SSP18 Paleo-environmental indicators in carbonate systems (co-sponsored by IAS)

Convener: Mutti, M.
Co-Convener(s): Samankassou, E.
Lecture Room 32
Chairperson: N.N.

17:30–17:45; EGU2007-A-09883; SSP18-1TH50-001
Nebelsick, J.; Bieg, U.

Cross-stratified calcarenites: Paleo-environmental indicators for a bryomol facies in a mixed carbonate - siliciclastic system (Upper Marine Molasse, Early Miocene) from the North Alpine Foreland Basin

17:45–18:00; EGU2007-A-10699; SSP18-1TH50-002
Giles, K.; Druke, J.

Linked hyperpynal flows and Heterozoan reefs as indicators of wetter climates in La Popa Basin, NE Mexico

18:00–18:15; EGU2007-A-09624; SSP18-1TH50-003

Zamagni, J.; Kosir, A.; Mutti, M.
Palaeoecology of larger foraminifera during the late Palaeocene-earliest Eocene transition in the northern Tethys (SW Slovenia): tropical foraminiferal carbonate production under humid mesotrophic conditions?

18:15–18:30; EGU2007-A-03380; SSP18-1TH50-004

Mirza, K.; Sheikh, R. A.; Ahmed, K.
Biostratigraphic synthesis of a Middle Eocene Limestone, Northern Kohat Basin, Himalayan Fold and Thrust Belt, Northern Pakistan

18:30–18:45; EGU2007-A-08260; SSP18-1TH50-005

Rusciadelli, G.; D'Argenio, B.; Di Simone, S.; Ferreri, V.; Randisi, A.; Ricci, C.

Carbonate platform production and exportation potentials recorded by stratigraphic architectures and sediment composition of base-of-slope deposits (late Jurassic, central Apennines, Italy)

18:45 END OF SESSION

SSP21 Reconstructing the Cretaceous World: Integration of data from the Boreal, Tethys, deep sea and the continents (co-listed in CL)

Convener: Steuber, T.
Co-Convener(s): Mutterlose, J.
Lecture Room 32
Chairperson: N.N.

8:30–8:45; EGU2007-A-00890; SSP21-1TH10-001

Bornemann, A.; Beckmann, B.; Hofmann, P.; Schouten, S.; Sinninghe-Damsté, J.; Wagner, T.; Norris, R.D.
Tropical Climate Variability during the Cretaceous Thermal Maximum (solicited)

8:45–9:00; EGU2007-A-05441; SSP21-1TH10-002

Pucéat, E.; Lécuyer, C.; Donnadieu, Y.; Naveau, P.; Capetta, H.; Ramstein, G.; Huber, B.T.; Kriwet, J.
Fish tooth $\delta^{18}\text{O}$ revising Late Cretaceous meridional upper ocean water temperature gradients

9:00–9:15; EGU2007-A-05904; SSP21-1TH10-003

Hasegawa, H.; Tada, R.; Saganuma, Y.; Ichinnorov, N.; Badamgarav, D.; Khand, K.
Aridification of Asian interior during Late Cretaceous

9:15–9:30; EGU2007-A-03950; SSP21-1TH10-004

Deconinck, J.F.; Fesneau, C.; Pellenard, P.; Pucéat, E.
Aerial volcanism and cold intervals during the Cretaceous : a causal link ?

9:30–9:45; EGU2007-A-05499; SSP21-1TH10-005

Price, G.D.; Nunn, E.V.
A sedimentological and isotopic evaluation of late Jurassic - early Cretaceous Arctic climates

9:45–10:00; EGU2007-A-02479; SSP21-1TH10-006

Hay, W.
The modern ocean is a poor analog for the Cretaceous

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-03017; SSP21-1TH20-001

Jarvis, I.
Carbon-isotope stratigraphy: key to Tethys – Boreal and marine – terrestrial correlation and palaeoenvironmental reconstruction? (solicited)

10:45–11:00; EGU2007-A-11163; SSP21-1TH20-002

Wendler, J.; Kuss, J.; Stein, R.
Late Cenomanian carbon isotope stratigraphy of the Levant carbonate platform (Central Jordan): Cyclic patterns and correlations

11:00–11:15; EGU2007-A-03548; SSP21-1TH20-003

Hart, M.B.; Watkinson, M.P.; Koutsoukos, E.A.M.
The mid-Cretaceous fragmentation of Gondwana

11:15–11:30; EGU2007-A-03688; SSP21-1TH20-004

Heimhofer, U.; Hochuli, P. A.; Burla, S.; Weissert, H.
The early evolution of angiosperms – a stratigraphic perspective (solicited)

11:30–11:45; EGU2007-A-02052; SSP21-1TH20-005

Kiel, S.
Cretaceous methane seeps and their fauna: distribution, evolutionary patterns, and paleoecologic implications

11:45–12:00; EGU2007-A-04783; SSP21-1TH20-006

Föllmi, K.B.; Godet, A.; Bodin, S.; Linder, P.
The impact of Early Cretaceous shallow-water carbonate build-up on the paleoceanographic record

12:00 END OF SESSION

SSP21 Reconstructing the Cretaceous World: Integration of data from the Boreal, Tethys, deep sea and the continents (co-listed in CL) – Posters

Convener: Steuber, T.
Co-Convener(s): Mutterlose, J.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
Poster Area Hall A
Chairperson: N.N.

A0514; EGU2007-A-03988; SSP21-1TH5P-0514

Erba, E.
Nannofossil evolution and fluxes as tracers of Cretaceous paleoCO₂

A0515; EGU2007-A-01808; SSP21-1TH5P-0515

Robin, C.; Guillocheau, F.; Vrielynck, B.
Very low term (250 Myr) quantification of the eustasy during Mesozoic – Cenozoic time based on coastal onlap measurement at the tethys and world-scale

A0516; EGU2007-A-01668; SSP21-1TH5P-0516

Hussein, R.; Xiaomin, Z.
Cretaceous Lacustrine Deposits of Fula Subbasin, Muglad Basin, Sudan (cancelled)

A0517; EGU2007-A-02353; SSP21-1TH5P-0517

Skupien, P.

Biostratigraphy and facies of Uppermost Jurassic – Lower Cretaceous pelagic sediments in the Northern Calcareous Alps and Outer Western Carpathians

A0518; EGU2007-A-03216; SSP21-1TH5P-0518

Barbu, V.; Melinte, M.C.

Valanginian paleoenvironmental changes in the Southern Carpathians (Romania)

A0519; EGU2007-A-04216; SSP21-1TH5P-0519

Fesneau, C.; Deconinck, J.F.; Pellenard, P.; Garcia, J.P.; Reboulet, S.

Volcanic ash-falls (bentonites) in the Valanginian deposits of the Vocontian Basin (south-east France): oceanic and climatic implications.

A0520; EGU2007-A-03250; SSP21-1TH5P-0520

Iba, Y.; Sano, S.

Albian demise of the Tethyan biota in the Pacific: A possible causal link to the formation of the South Atlantic and Western Interior Seaway

A0521; EGU2007-A-04108; SSP21-1TH5P-0521

Tiraboschi, D.; Erba, E.

Increased thermohaline stratification as a possible cause for the rhythmic Albian black shales (Piobbico core, central Italy): calcareous nannofossil evidence

A0522; EGU2007-A-08444; SSP21-1TH5P-0522

Alsen, P.

The Early Cretaceous ammonite fauna of North-East Greenland – linking the Boreal with the Tethys

A0523; EGU2007-A-09520; SSP21-1TH5P-0523

Premoli Silva, I.; Caron, M.; Leckie, R.M.

Status of the planktonic foraminiferal species *Ticinella bejaouaensis* Sigal, 1966 (Aptian-Albian)

A0524; EGU2007-A-08989; SSP21-1TH5P-0524

Szinger, B.; Görög, Á.; Császár, G.

Late Jurassic – Early Cretaceous sections from Tata (Pelso Unit, Hungary): sedimentology, marine palaeontology, palaeoenvironment

A0525; EGU2007-A-11691; SSP21-1TH5P-0525

Gazdzicka, E.; Ploch, I.; Smoleń, J.

Lower Cretaceous paleoenvironmental changes in the Polish Basin – possible information from various fossil groups associated with depositional sequences

A0526; EGU2007-A-02868; SSP21-1TH5P-0526

Voigt, S.; Wilmsen, M.; Erbacher, J.; Mutterlose, J.; Wiese, F.; Wonik, T.

Coring a global stratigraphic Reference Section of OAE 2: first Results of the Wunstorf drilling Project

A0527; EGU2007-A-09211; SSP21-1TH5P-0527

Böttcher, M.E.; Hetzel, A.; Brumsack, H.J.; Wortmann, U.G.; Schipper, A.

Dynamics of redox-sensitive tracers through the C/T in the southern North-Atlantic (ODP Leg 207): A high-resolution study

A0528; EGU2007-A-06819; SSP21-1TH5P-0528

Frijia, G.; Parente, M.

Isotope-stratigraphy in Turonian-Campanian shallow-water carbonates of southern Apennines (Italy).

A0529; EGU2007-A-04172; SSP21-1TH5P-0529

Frijia, G.; Carannante, G.; Parente, M.; Ruberti, D.; Simone, L.

The main steps in the evolution of rudist bearing carbonates in the Campania Apennines (southern Italy): a refined time-framework using chemostratigraphy.

A0530; EGU2007-A-01870; SSP21-1TH5P-0530

Schlüter, M.; Steuber, T.; Parente, M.; Mutterlose, J.

Biostratigraphy and Sr-isotope chemostratigraphy of rudist-bearing carbonate platforms in the central-eastern Mediterranean and Middle East during the latest Cretaceous (Campanian-Maastrichtian)

A0531; EGU2007-A-01592; SSP21-1TH5P-0531

Schovsbo, N.H.; Stemmerik, L.

High resolution carbon-isotope curve for the Boreal late Campanian – Maastrichtian, Stevns, Denmark

A0532; EGU2007-A-05527; SSP21-1TH5P-0532

Abramovich, S.; Benjamini, Ch.; Almog-Labin, A.

Global extinction of intermediate-thermocline planktic foraminifera at the mid-Maastrichtian warm event

A0533; EGU2007-A-09656; SSP21-1TH5P-0533

Gallala, N.; Zaghib-Turki, D.; Molina, E.

Mass extinction and turnover in planktonic Foraminifera at the Cretaceous/Paleogene (K/Pg) boundary at Bidart section (sw France)

A0534; EGU2007-A-07108; SSP21-1TH5P-0534

Ayyildiz, T.; Hosgor, I.; Onal, M.

Sedimentologic and new Paleontologic data about the late Maastrichtian facies from the southern branch of the Neo-Tethys (east Anatolia) from the Malatya basin, Turkey (cancelled)

Tectonics and Structural Geology

TS8.3 Tectonics and magmatism during continental rifting and break-up

Convener: Perez-Gussinye, M.

Co-Convener(s): Huismans, R., Shillington, D.

Lecture Room 3

Chairperson: N.N.

13:30–13:45; EGU2007-A-07976; TS8.3-1TH30-001

Jokat, W.; Voss, M.

Plumes and Continental Break-up: Some observations from the North and South Atlantic (solicited)

13:45–14:00; EGU2007-A-04328; TS8.3-1TH30-002

Trumbull, R.B.; Reid, D.L.; deBeer, C.; vanAcken, D.; Romer, R.L.

The magmatic record of continental breakup along the west margin of southern Africa: dolerite dikes from NW Namibia to the Cape Peninsula

14:00–14:15; EGU2007-A-00863; TS8.3-1TH30-003

Yirgu, G.; THE AFAR 2005 TEAM

The September 2005 Dabbahu (Afar, Ethiopia) rifting episode: an overview of the activity and latest results (solicited)

14:15–14:30; EGU2007-A-04700; TS8.3-1TH30-004

Rowland, J.; Kidane, T.; Ebinger, C.; Baker, E.; Keir, D.; Wright, T.

Magmatic rifting recorded in the morphology of normal faults, Ethiopia.

14:30–14:45; EGU2007-A-03604; TS8.3-1TH30-005

Lucazeau, F.; Leroy, S.; THE ENCENS-FLUX TEAM

Thermal regime of a young passive margin: the eastern Gulf of Aden

14:45–15:00; EGU2007-A-08929; TS8.3-1TH30-006

Ranero, C. R.; Phipps Morgan, J.

Along-strike supply of volcanic rifted margins: A mechanism for sudden along-strike transitions between volcanic and non-volcanic rifted margins (solicited)

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-01434; TS8.3-1TH4O-001

Robertson, A H F

Continental break-up of the Newfoundland rifted margin (Ocean Drilling Program Leg 210) ...

15:45–16:00; EGU2007-A-07277; TS8.3-1TH4O-002

Müntener, O.; Jagoutz, O.

The role of inheritance in the mantle beneath the Iberia-Newfoundland rift system (solicited)

16:00–16:15; EGU2007-A-04973; TS8.3-1TH4O-003

Peron-Pinvidic, G.; Manatschal, G.

When and how does continental break-up occur at the Iberia margin: constraints from mapping the 3D distribution of syn-tectonic sedimentary units.

16:15–16:30; EGU2007-A-03780; TS8.3-1TH4O-004

Reston, T.J.

The extension discrepancy at non-volcanic margins: depth-dependent stretching or unrecognised faulting?

16:30–16:45; EGU2007-A-11391; TS8.3-1TH4O-005

R. Ranero, C.; Pérez-Gussinyé, M.

A Tectonic Model of Faulting during Rifting and the Development of the Asymmetry of Conjugate Non-volcanic Margins.

16:45–17:00; EGU2007-A-10515; TS8.3-1TH4O-006

Huisman, R.S.; Beaumont, C.

Complex rifted margins explained by dynamical models of depth-dependent lithospheric extension

17:00 END OF SESSION

TS9.1 The influence of pre-existing structures upon the development and evolution of geological architectures – Posters

Convener: Holdsworth, R.

Co-Convener(s): Clifton, A., Bergh, S., McCaffrey, K., Wilson, R.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0854; EGU2007-A-08730; TS9.1-1TH3P-0854

Clifton, A.E.; Kattenhorn, S.A.; Young, K.D.; Jenness, M
Control of eruptive fissure geometries by the preexisting structural fabric at an oblique spreading center, SW Iceland (solicited)

XY0855; EGU2007-A-09438; TS9.1-1TH3P-0855

Buiter, S.; Pfiffner, A.

Localisation of shortening in numerical models of basin inversion

XY0856; EGU2007-A-10653; TS9.1-1TH3P-0856

Willingshofer, E.; Sokoutis, D.; Cloetingh, S.; Burg, J.P.

The evolution of collisional mountain belts as a function of the geometry of pre-existing weak zones within the lithosphere

XY0857; EGU2007-A-02923; TS9.1-1TH3P-0857

Sellier, N.; Loncke, L.; Vendeville, B. C.; Mascle, J.

Tectonic Coupling and Decoupling between Pre-Messinian Basement and Plio-Quaternary Overburden South of the Florence Rise (Eastern Mediterranean): Structural Analysis and Analogue Modelling

XY0858; EGU2007-A-08777; TS9.1-1TH3P-0858

Sippel, J.; Scheck-Wenderoth, M.; Reicherter, K.; Mazur, S.
The role of pre-existing structures for paleostress analysis – a case study from the Central European Basin System (CEBS)

XY0859; EGU2007-A-07287; TS9.1-1TH3P-0859

Pelz, K.; Reyle, M.; Seyfried, H.

Impact of diapirism on the style of shortening in the eastern Betic Cordillera: two balanced cross-sections from the External Zone

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 15:30–17:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0860; EGU2007-A-11136; TS9.1-1TH4P-0860

Scisciani, V.; Calamita, F.

Contrasting styles of contractional deformation in the Apennine fold-and-thrust belt and in the Mid-Adriatic Ridge

XY0861; EGU2007-A-09959; TS9.1-1TH4P-0861

Marin, M. A.; Roca, E.; Rosell, O.; Marcuello, A.; Queralt, P.; Cabrera, L.; Ledo, J.

Cretaceous extensional faults: a major control in the development of the Cenozoic architecture of the Catalan Coastal Ranges (western Mediterranean).

XY0862; EGU2007-A-03473; TS9.1-1TH4P-0862

BONINI, L.; DALLAGIOVANNA, G.; SENO, S.

Inversion tectonics and Foreland dipping duplex in the Maritime Alps (Italy).

XY0863; EGU2007-A-07809; TS9.1-1TH4P-0863

Saintot, A.; Dehls, J.; Solli, A.; Nordgulen, Ø.; Olesen, O.; Rønning, J.S.

Brittle tectonics in Boknafjord region (western Norway)

XY0864; EGU2007-A-10360; TS9.1-1TH4P-0864

Anderson, M.W.

Basement structural controls on late orogenic geometries in the Caledonides of north-central Scandinavia

XY0865; EGU2007-A-01925; TS9.1-1TH4P-0865

Viola, G.; **Henderson, I.;** Bingen, B; Feito, P

Pan-African tectonic evolution and reactivation in northern Mozambique

XY0866; EGU2007-A-00349; TS9.1-1TH4P-0866

Giambiagi, L.; Martinez, A

Reworking of an ancient lithospheric anisotropy during the Permo-Triassic extension in southwestern South America

XY0867; EGU2007-A-06484; TS9.1-1TH4P-0867

Delescluse, M.; Montési, L.; Chamot-Rooke, N.

Fault reactivation and selective abandonment in the Central Indian Basin active deformation zone.

XY0868; EGU2007-A-06079; TS9.1-1TH4P-0868

Lee, H.; Chang, T. W.

Anomalous structural trends within low strain zones

XY0869; EGU2007-A-11553; TS9.1-1TH4P-0869

Chattopadhyay, A.; Holdsworth, R.E.; Khasdeo, L.; Bergh, S.G.

Multiple reactivation of pre-existing fabrics in a basement shear zone: an example from Gavilgarh-Tan Shear Zone, central India

XY0870; EGU2007-A-00366; TS9.1-1TH4P-0870

Subrata, B.; Wiesmayr, G; Grasemann, B

Development of a monocline in the northeast Sylhet Trough along the Dauki Fault, NE Bangladesh

XY0871; EGU2007-A-06908; TS9.1-1TH4P-0871
Mazur, S.; Czerny, J.; Manecki, M.; Majka, J.; Smyrak, A.; Wypych, A.
 Rheologically controlled strain partitioning at a sheared contact of contrastingly metamorphosed crustal domains, Wedel Jarlsberg Land, West Spitsbergen

TS10.2 Tectonic evolution of Tethys in the Eastern Mediterranean Region

Convener: KOLLER, F.
 Co-Convener(s): PARLAK, O., Robertson, A.
 Lecture Room 5 (I)
 Chairperson: ROBERTSON, AHF.

8:30–8:45; EGU2007-A-05923; TS10.2-1TH1O-001
Flower, MFJ; Hoang, N.; Çoban, H
 Collision-induced mantle flow as a driver of extrusion tectonics: a comparison of southeast Asia and the eastern Mediterranean (solicited)

8:45–9:00; EGU2007-A-02879; TS10.2-1TH1O-002
Manatschal, G.; Müntener, O.
 The Platta ophiolites in Eastern Switzerland: what do they tell us about the formation of the Alpine Tethys? (solicited)

9:00–9:15; EGU2007-A-00407; TS10.2-1TH1O-003
Parlak, O.
 Petrology of Neotethyan ophiolites in Turkey: Divers magma types and their tectonic significance (solicited)

9:15–9:30; EGU2007-A-06464; TS10.2-1TH1O-004
 Hoek, V.; **Koller, F.**; Onuzi, K.; Kloetzli-Chowanetz, E.; Ionescu, C.
 Transition from SSZ to MORB composition in Albanian Ophiolites: Evidence from small ophiolites intermediate between the eastern and the western belt (Albania) (solicited)

9:30–9:45; EGU2007-A-04539; TS10.2-1TH1O-005
Tremblay, A.; Meshi, A.; Pagé, P.; Bédard, J.H.
 Western- and Eastern-type ophiolite classification of the Mirdita zone, Albania – a reappraisal based on comparisons with Appalachian ophiolites and modern oceanic settings

9:45–10:00; EGU2007-A-01515; TS10.2-1TH1O-006
Hoek, V.; Ionescu, C.
 Mesozoic ophiolites from the Eastern Carpathians: what are they and where are they coming from? (solicited)

10:00 COFFEE BREAK

Chairperson: KOLLER, F.

10:30–10:45; EGU2007-A-05552; TS10.2-1TH2O-001
Garfunkel, Z.
 Eastern Mediterranean ophiolites: the perspective of the history of enclosing basins (solicited)

10:45–11:00; EGU2007-A-05337; TS10.2-1TH2O-002
Reischmann, T.; Kostopoulos, D.
 Terrane accretion in the internal Hellenides (solicited)

11:00–11:15; EGU2007-A-01429; TS10.2-1TH2O-003
 Robertson, A H F; Parlak, O; Ustaomer, T; Unlugenc, U
 Role of Late Mesozoic subduction and Palaeogene collision in melange genesis and ophiolite emplacement in the Anatolides of western and central Turkey (solicited)

11:15–11:30; EGU2007-A-09427; TS10.2-1TH2O-004
Dilek, Y.; Rassios, A.H.E; Furnes, H.; Shallo, M.
 Mesozoic-Cenozoic tectonics and Tethyan evolution of the western Balkan Peninsula: an ophiolite perspective (solicited)

11:30–11:45; EGU2007-A-02987; TS10.2-1TH2O-005
Schmid, S. M.; Bernoulli, D.; Fügenschuh, B.; Matenco, L.; Schuster, R.; Tischler, M.; Ustaszewski, K.
 Ophiolites of the Alps-Carpathians-Dinarides orogen system: how many oceans? (solicited)

11:45–12:00; EGU2007-A-01821; TS10.2-1TH2O-006
Xypolias, P.
 Cenozoic tectonics of the External Hellenides (solicited)

12:00 END OF SESSION

TS10.5/GD12/SM19 Geodynamics, kinematics and crustal tectonics of the African/Arabian/Eurasian collision zone in the eastern Mediterranean/northern Arabian region (co-organized by GD & SM)

Convener: van Hinsbergen, D.
 Co-Convener(s): Agard, P., Tirel, C., Edwards, M.
 Lecture Room 5 (I)
 Chairperson: N.N.

13:30–13:45; EGU2007-A-03025; TS10.5/GD12/SM19-1TH3O-001
 Brun, J.-P.; **Faccenna, C.**
 Slab Roll back, back-arc extension and exhumation of HP rocks in the eastern-Central Mediterranean (solicited)

13:45–14:00; EGU2007-A-01183; TS10.5/GD12/SM19-1TH3O-002
Rassios, A.; Dilek, Y.
 Ophiolites as compressive strain-recording media: an example drawn from the Mesohellenic ophiolitic slab, Greece (solicited)

14:00–14:15; EGU2007-A-06656; TS10.5/GD12/SM19-1TH3O-003
Grasemann, B.; Edwards, M.; Iglseider, C.; Petrakakis, K.; Schneider, D.; THE ACCEL TEAM
 Tertiary SSW directed crustal extension in the Western Cyclades: A new kinematic domain in the Aegean region (Greece)

14:15–14:30; EGU2007-A-07545; TS10.5/GD12/SM19-1TH3O-004
Endrun, B.; Lebedev, S.; Meier, T.
 Stratification of seismic anisotropy in the Aegean lithosphere and relation to deformation

14:30–14:45; EGU2007-A-04405; TS10.5/GD12/SM19-1TH3O-005
Kiratz, A.
 Distributed earthquake faulting in the Aegean Sea and kinematic analysis of strong events (solicited)

14:45–15:00; EGU2007-A-10086; TS10.5/GD12/SM19-1TH3O-006
Huhn, K.; Kopf, A.; Kaul, N.; Kock, I.; Krastel, S.; Stegmann, S.; Strozyk, F.
 Evidence for gravitational mass wasting potentially caused by earthquakes in the Cretan Sea

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-09020; TS10.5/GD12/SM19-1TH4O-001
Meier, T.; Friederich, W.; Papazachos, C.; Taymaz, T.; Kind, R.
 EGELADOS: a temporary amphibian broadband seismic network in the southern Aegean

15:45–16:00; EGU2007-A-05426; TS10.5/GD12/SM19-1TH4O-002
Kaymakci, N; Kusu, I
 Late Cretaceous to Recent Kinematic Evolution of Turkey (solicited)

16:00–16:15; EGU2007-A-05777; TS10.5/GD12/SM19-1TH4O-003
Catlos, E.; Çemen, I.; Baker, C.; Kohn, M.; Diniz, E.; Göncüoğlu, M.; Hançer, M.
 Mid-Miocene Magmatism and Extensional Dynamics within the Menderes Massif, Western Turkey

16:15–16:30; EGU2007-A-03879; TS10.5/GD12/SM19-1TH4O-004
Hasözbe, A.; Erdoğan, B.
 Geologic and petrologic patterns of post-collisional magmatic activity in the northern Menderes Massif (Ağaç Granite-NW Turkey-)

16:30–16:45; EGU2007-A-08359; TS10.5/GD12/SM19-1TH4O-005
WORTEL, M.J.R.; Meijer, P.Th.; van Yperen, G.N.C
 The role of continental collision in the separation of Arabia from Africa and the formation of the Dead Sea Fault

16:45–17:00; EGU2007-A-09396; TS10.5/GD12/SM19-1TH4O-006
Kopp, M.L.
 The late alpine structure of the Greater Caucasus as an element of the Peri-Arabian collisional area

17:00 COFFEE BREAK

Chairperson: N.N.

17:30–17:45; EGU2007-A-06822; TS10.5/GD12/SM19-1TH5O-001
Hubert-Ferrari, A.; Van Der Woerd, J.; King, G.; Villa, I.; Armijo, R.
 New constraints on the Karlova Triple Junction between Arabia, Eurasia and Anatolia

17:45–18:00; EGU2007-A-05991; TS10.5/GD12/SM19-1TH5O-002
Oberhänsli, R.
 Petrologic constraints along the Arabian Promontary (solicited)

18:00–18:15; EGU2007-A-07628; TS10.5/GD12/SM19-1TH5O-003
Frizon de Lamotte, D.; Leturmy, P.; Letouzey, J.; Sherkati, S.; Molinaro, M.
 Kinematics of the Zagros Fold-Thrust Belt (Iran) (solicited)

18:15–18:30; EGU2007-A-07847; TS10.5/GD12/SM19-1TH5O-004
Omran, J.; Agard, P.; Whitechurch, H.; Jolivet, L.; Prouteau, G.
 Subduction processes below Zagros: New constraints from the magmatic evolution of the internal zones

18:30–18:45; EGU2007-A-11110; TS10.5/GD12/SM19-1TH5O-005
Lavé, J.; Oveisi, B.; van der Beek, P.; Carcaillet, J.; Benedetti, L.
 Thick- and thin-skinned deformation in the Zagros Simple Folded Zone (Iran) indicated by uplift of geomorphic surfaces

18:45–19:00; EGU2007-A-00893; TS10.5/GD12/SM19-1TH5O-006
Van Gorp, S.; Chery, J.; Masson, F.; Djamour, Y.; Nankali, H.
 New insights for the Tabriz fault (NW Iran) from GPS profiles measurements

19:00 END OF SESSION

Medal Lectures

ML15 Henry Darcy Medal Lecture

Convener: Blöschl, G.
 Lecture Room 30 (C)
 Chairperson: BLÖSCHL, G.

18:30–19:30; EGU2007-A-11063; ML15-1TH6O-001
Gottschalk, L.
 What's in a map? - Perspectives on the PUB problem (Henry Darcy Medal Lecture) (solicited)

19:30 END OF SESSION

ML17 Petrus Peregrinus Medal Lecture

Convener: Valet, J.
 Lecture Room 5 (I)
 Chairperson: VALET, J.

19:00–20:00; EGU2007-A-06637; ML17-1TH6O-001
Jackson, A.
 Understanding the Earth's magnetic field through observation and theory (Petrus Peregrinus Medal Lecture) (solicited)

20:00 END OF SESSION

ML27 Jean Baptiste Lamarck Medal Lecture

Convener: Immenhauser, A.
 Lecture Room 2
 Chairperson: IMMENHAUSER, A.

19:00–20:00; EGU2007-A-01555; ML27-1TH6O-001
Montanari, A.; Bice, D.; Druschel, G.; Mariani, S.; Marshall, C.; Olcott, A.; Sharp, W.; Tigue, T.; Vucetic, M.
 Rediscovering pelagosite: a Mediterranean "microstromatolite" recording recent climate cycles (Jean Baptiste Lamarck Medal Lecture) (solicited)

20:00 END OF SESSION

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MEETING PROGRAMME

FRIDAY

Educational Symposia

ES3 Integrating Activities in Environmental Science Education - Approaches and Perspectives

Convener: Schuepbach, E.
Co-Convener(s): Uherek, E., Crosby, N.
Lecture Room 9 (P)
Chairperson: UHEREK, E.

8:30–9:00; EGU2007-A-06420; ES3-1FR1O-001
Brimblecombe, P.; **Schuepbach, E.**
Communicating air pollution science to the public and politicians (solicited)

Chairperson: N.N.

9:00 END OF SESSION

ES4 Sharing Education and Outreach Experiences in the Earth- and Space Sciences

Convener: Crosby, N.
Lecture Room 9 (P)
Chairperson: CROSBY, N.B.

13:30–14:00; EGU2007-A-01086; ES4-1FR3O-001
Fullekrug, M.; Astin, I.; Taylor, A.; Goodwin, A.; Hillier, S.; Dolan, M.
Spectacular Sprites: Teaching cutting edge research in higher education (solicited)

14:00–14:15; EGU2007-A-09609; ES4-1FR3O-002
Camps, A. P.; Lovell, M. A.; Brewer, T. S.; Williams, J. F.
Putting our heads together: Physprops.net

14:15–14:30; EGU2007-A-05302; ES4-1FR3O-003
Szarka, L.; Cserny, T.; Wesztergom, V.
Experiences in geo-environmental science education and outreach at the University of West-Hungary, Sopron

14:30–14:45; EGU2007-A-11101; ES4-1FR3O-004
De Lucia, M.; Postiglione, T.; Renzulli, S.; Ricciardi, G.P.; Russo, M.; Scalzo, A.; Strappaghetta, A.
Mesimex 2006 - Discovering Vesuvius: an exhibition to improve risk education in the high volcanic area of Vesuvius

14:45–15:00; EGU2007-A-10244; ES4-1FR3O-005
Rebelo, F.; **Wallenstein, N.**
Seismic Risk mitigation through education: An intervention proposal in the educational curricula of the Azores Islands, Portugal

15:00 COFFEE BREAK

Chairperson: FULLEKRUG, M.

15:30–15:45; EGU2007-A-09916; ES4-1FR4O-001
Hondoh, T.; Aoki, S.; Yamamoto, M.; Sugiyama, S.; **Sueyoshi, T.**; Nihashi, S.; Kimura, H.
International Antarctic Institute project in Hokkaido University, Japan, and an outreach event to promote cryospheric science.

15:45–16:00; EGU2007-A-05812; ES4-1FR4O-002
Sparrow, E. B.; Alexeev, V.; Dmitrenko, I.; Polyakov, I.
Use of an Arctic expedition in Earth science education

16:00–16:15; EGU2007-A-01943; ES4-1FR4O-003
Nawrath, S.; Lembcke, F.; Gerstengarbe, F.-W.
Climate impact research, history, and board games - PIK Environmental Education

16:15–16:30; EGU2007-A-00755; ES4-1FR4O-004
Sigaeva, E.; Zhuravlev, V.; Radchenko, V.
Hands-on space-physics exercises in Lomonosov Moscow State University

16:30–16:45; EGU2007-A-01563; ES4-1FR4O-005
Wright, R
Using Real Events to Teach Earth- and Space Sciences

16:45–17:00; EGU2007-A-01008; ES4-1FR4O-006
Kovalenko, N. S.
Earth and Space Sciences education at Kyiv planetarium

17:00 END OF SESSION

ES4 Sharing Education and Outreach Experiences in the Earth- and Space Sciences – Posters

Convener: Crosby, N.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: CROSBY, N.

XY0001; EGU2007-A-01136; ES4-1FR5P-0001
Pertzborn, R.; Limaye, S; Loew, P
One Sky Two Views: Bridging Culture and Astronomy (solicited)

XY0002; EGU2007-A-05049; ES4-1FR5P-0002
Macko, S.A.; Szuba, T.
Enhancing the understanding of marine ecosystems through teleeducation and field experiences

XY0003; EGU2007-A-06950; ES4-1FR5P-0003
Chiodetti, A. G.; Camassi, R.; Nostro, C.
NAUTILUS - scientific library for children and young adults: Natural Hazards education and reading skills

XY0004; EGU2007-A-08571; ES4-1FR5P-0004
Kapelari, S.; Santeler, E.; Neuner, K.; Hammerle, A.; Wohlfahrt, G.
Making it obvious – How an entire School was introduced to Climate Change Research

XY0005; EGU2007-A-09579; ES4-1FR5P-0005
Pereira, M. G.; Almeida, A.; Cravino, J. P.
Atmosphere as a geophysics laboratory

XY0006; EGU2007-A-05828; ES4-1FR5P-0006
Sparrow, E.B.; Robin, J. H.; Boger, R. A.
GLOBE seasons and biomes: an international IPY Earth science project

XY0007; EGU2007-A-00558; ES4-1FR5P-0007
Krasotkin, S.; Panasyuk, M.; Radchenko, V.
Space sciences education and outreach program of Moscow State University

Mon

Tue

Wed

Thu

Fri

XY0008; EGU2007-A-01497; ES4-1FR5P-0008
Spangler, T.; Kiessling, D.
 Engaging College Students in Space Physics with a Layered Multimedia Approach

XY0009; EGU2007-A-11059; ES4-1FR5P-0009
Morrow, C. A.
 Space and Earth Science Education with Movement and Music

XY0010; EGU2007-A-07452; ES4-1FR5P-0010
 Stegen, K.; Wera, J.; **Crosby, N.B.;** COST 724 Team
 European Space Weather Portal

Atmospheric Sciences

AS1.06 Variability and predictability of the coupled stratosphere-troposphere system (co-listed in CL)

Convener: Charlton, A.
 Co-Convener(s): Stephenson, D., Christiansen, B.
 Lecture Room 1 (G)
 Chairperson: CHARLTON, A.

8:30–8:45; EGU2007-A-08137; AS1.06-1FR10-001
Scaife, AA
 Influence of the stratosphere on surface winter climate (solicited)

8:45–9:00; EGU2007-A-05611; AS1.06-1FR10-002
Fletcher, C.G.; Kushner, P.J.; Cohen, J.
 On predicting the coupled stratosphere-troposphere response to planetary wave forcing.

9:00–9:15; EGU2007-A-02048; AS1.06-1FR10-003
Hooghoudt, J.-O.; Barkmeijer, J.
 The Stratosphere-Troposphere connection explored by Singular Vectors

9:15–9:30; EGU2007-A-10998; AS1.06-1FR10-004
Kunz, T.; Fraedrich, K.; Greatbatch, R. J.
 Decay timescale of polar stratospheric temperature anomalies

9:30–9:45; EGU2007-A-04554; AS1.06-1FR10-005
Dall'Amico, M.; Egger, J.
 The relationship between the northern annular mode in the stratosphere and in the troposphere investigated with an empirical master equation

9:45–10:00; EGU2007-A-00840; AS1.06-1FR10-006
Simpson, I.; Haigh, J.; Blackburn, M
 Solar influence on stratosphere-troposphere dynamical coupling

10:00–10:15; EGU2007-A-07675; AS1.06-1FR10-007
Baldwin, M.
 Climate-ozone connections

10:15 END OF SESSION

AS1.06 Variability and predictability of the coupled stratosphere-troposphere system (co-listed in CL) – Posters

Convener: Charlton, A.
 Co-Convener(s): Stephenson, D., Christiansen, B.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 13:30–15:00
 Poster Area Halls X/Y
 Chairperson: CHARLTON, A.

XY0011; EGU2007-A-11019; AS1.06-1FR3P-0011
Cai, M.; Shin, C-S; van den Dool, H.
 A successful story in predicting NAM events by the operational NCEP's GFS model.

XY0012; EGU2007-A-08908; AS1.06-1FR3P-0012
Camara, A.; Serrano, E.; Ayarzagüena, B.; Mechoso, C.R.
 Winter rainfall variability over Europe in the coupled stratosphere-troposphere system

XY0013; EGU2007-A-05985; AS1.06-1FR3P-0013
Hansen, G. H.; Stebel, K.
 Trends and year-to-year variability of the Arctic tropopause pressure and temperature

XY0014; EGU2007-A-06784; AS1.06-1FR3P-0014
 Hinssen, Y.; **van Delden, A.;** de Geus, W.
 Sensitivity of mid-latitude westerly flow in the troposphere to human induced global change

XY0015; EGU2007-A-10738; AS1.06-1FR3P-0015
Keeley, S.; Gillett, N.
 Determining the impact of lower stratospheric depletion on Southern Hemisphere climate

XY0016; EGU2007-A-06672; AS1.06-1FR3P-0016
Kuroda, Y.; Yamazaki, K.; Shibata, K.
 Role of ozone on the solar cycle modulation of the North Atlantic Oscillation

XY0017; EGU2007-A-01274; AS1.06-1FR3P-0017
Hardiman, S. C.; Haynes, P. H.; Butchart, N.
 Downward influence of dynamical signals in the middle atmosphere

XY0018; EGU2007-A-07466; AS1.06-1FR3P-0018
Liberato, M.L.R.; Castanheira, J.M.; de la Torre, L.; DaCamara, C.C.; Gimeno, L.
 3-D normal mode analysis of the northern stratospheric polar vortex

AS1.11 Gravity waves (co-listed in OS)

Convener: Achatz, U.
 Co-Convener(s): Plougonven, R., Becker, E.
 Lecture Room 1 (G)
 Chairperson: DE LA TORRE, A.

13:30–13:45; EGU2007-A-03926; AS1.11-1FR3O-001
Serafimovich, A.; Hoffmann, P.; Zülicke, Ch.; Peters, D.; Latteck, R.; Singer, W.; Dalin, P.
 Inertia gravity waves in the upper troposphere during the MacWAVE winter campaign: collocated radar observations and modelling studies

13:45–14:00; EGU2007-A-11444; AS1.11-1FR3O-002
Zhang, F.; Sassi, F.; Richter, Y.; Garcia, R.
 Dynamics and parameterization of gravity waves excited from baroclinic jet-front systems

14:00–14:15; EGU2007-A-00801; AS1.11-1FR3O-003
Pavelyev, A. G.; Gubenko, V.; Wickert, J.; Liou, Y.A.; Pavelyev, A.A.; Schmidt, T.
 Geographical Distribution of Potential and Kinetic Energy of Internal Waves in the Atmosphere found from CHAMP and FORMOSAT3 Radio Occultation Data

14:15–14:30; EGU2007-A-01885; AS1.11-1FR3O-004
Hertzog, A.; Boccara, G.; Vial, F.; Vincent, R. A.
 Balloon-borne estimation of gravity-wave momentum flux in the Antarctic polar vortex

14:30–14:45; EGU2007-A-08567; AS1.11-1FR3O-005
Vaughan, G.; Worthington, RM
 Inertia-gravity waves observed by the UK MST radar

14:45–15:00; EGU2007-A-06854; AS1.11-1FR3O-006
Martin, B. T.; Piggott, M. D.; Pain, C. C.; Allison, P. A.
 Adaptive mesh modelling of the interaction of oceanic internal gravity waves with idealised and realistic bathymetry

15:00 COFFEE BREAK

Chairperson: ACHATZ, U.

15:30–15:45; EGU2007-A-03368; AS1.11-1FR4O-001
Harlander, U.

Do smooth non-viscous atmospheric internal wave modes exist?

15:45–16:00; EGU2007-A-07728; AS1.11-1FR4O-002
Martins, J.; Miranda, P.; Teixeira, M.

Sensitivity of atmospheric gravity wave drag to wind shear

16:00–16:15; EGU2007-A-05068; AS1.11-1FR4O-003
Sharman, R.; Frehlich, R.; Hall, W.

Observations, simulations, and analyses of topographically induced gravity waves

16:15–16:30; EGU2007-A-10209; AS1.11-1FR4O-004
Klaassen, G.

Testing Lagrangian theories of internal wave spectra

16:30–16:45; EGU2007-A-09303; AS1.11-1FR4O-005
Rump, O.J.; Esler, J.G.; Johnson, E.R.

Transcritical, rotating flow over topography

16:45–17:00; EGU2007-A-09992; AS1.11-1FR4O-006
Chagnon, J.; Gray, S

Convectively-generated gravity wave spectra

17:00 END OF SESSION

AS1.11 Gravity waves (co-listed in OS) – Posters

Convener: Achatz, U.

Co-Convener(s): Plougonven, R.; Becker, E.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 08:30–10:00

Poster Area Halls X/Y

Chairperson: ACHATZ, U.

XY0019; EGU2007-A-00679; AS1.11-1FR1P-0019
Kozak, L.; Motsyk, O.

Influence of the large-scale weather structures onto the temperature of upper Earth's atmosphere from the satellite TIMED measurements

XY0020; EGU2007-A-00820; AS1.11-1FR1P-0020
Vanina-Dart, L.B.; Sharkov, E.A.; Pokrovskaja, I.V.

Tropical cyclone as the new gravity waves source through Atmosphere-Ionosphere system

XY0021; EGU2007-A-05673; AS1.11-1FR1P-0021
Savina, O.N.

Characteristics of a surface waves transitional radiation near the temperature jump

XY0022; EGU2007-A-06717; AS1.11-1FR1P-0022
Zülicke, Ch.; Peters, D.

Parameterization of spontaneous radiation of inertia-gravity waves from jet streaks in poleward breaking Rossby waves

XY0023; EGU2007-A-09261; AS1.11-1FR1P-0023
Haine, T.; Eyink, G.; Williams, P.; Ring, D.; Read, P.

On the origin of inertia-gravity waves emitted by quasi-balanced flow

XY0025; EGU2007-A-07648; AS1.11-1FR1P-0025

Miranda, P.; Teixeira, M.; Martins, J.; Cardoso, R.; Argain, J
 Topographic gravity waves: theory and numerical simulations in heterogeneous flows

XY0026; EGU2007-A-00151; AS1.11-1FR1P-0026
Gubenko, V.N.; Andreev, V.E.; Pavelyev, A.G.

The identification of wave origin of a temperature fluctuations and determination of the intrinsic frequency of internal gravity waves in Earth's stratosphere derived from radio occultation data

XY0027; EGU2007-A-04610; AS1.11-1FR1P-0027

de la Torre, A.; Schmidt, T.; Wickert, J.; Alexander, P.; Llamedo, P.

Wave activity in the vicinity of the tropopause, calculated from GPS radio occultation a) temperature and b) potential temperature profiles

XY0028; EGU2007-A-04628; AS1.11-1FR1P-0028

de la Torre, A.; Alexander, P.; Llamedo, P.; Menéndez, C.; Schmidt, T.; Wickert, J.

Gravity wave analysis in Mendoza (Argentina), from GPS radio occultation data and MM5 simulations

XY0029; EGU2007-A-04621; AS1.11-1FR1P-0029

Alexander, P.; Llamedo, P.; **de la Torre, A.**
 The interpretation of gravity wave parameters in GPS radio occultation data

XY0030; EGU2007-A-05123; AS1.11-1FR1P-0030

Sridharan, S.; Bhavani Kumar, Y.; Narayana Rao, D
 Rayleigh Lidar Observations of Gravity Waves in the Middle Atmospheric Temperature over Gadanki (13.5N, 79.2E)

XY0031; EGU2007-A-04050; AS1.11-1FR1P-0031

Preusse, P.; Eckermann, S.D.; Ern, M.
 Global gravity wave simulations with the GROGRAT ray tracer

XY0032; EGU2007-A-07204; AS1.11-1FR1P-0032

Wüst, S.; Bittner, M.
 Gravity Wave Reflection: a Case Study based on Rocket Data

XY0033; EGU2007-A-07269; AS1.11-1FR1P-0033

Fröhlich, K.; **Jacobi, Ch.**
 The influence of gravity wave activity on the zonal mean wind under different climatological conditions

XY0034; EGU2007-A-01314; AS1.11-1FR1P-0034

Achatz, U.
 Gravity-wave breaking: Linear and primary nonlinear dynamics

XY0035; EGU2007-A-07266; AS1.11-1FR1P-0035

Valchev, N.; Davidan, I.; Belberov, Z.; Valcheva, N.
 Feasibility of wind wave simulations in the Black Sea deep and shallow water areas

AS1.14 African Monsoon Multidisciplinary Analysis (AMMA) (co-listed in OS, BG, CL & SSS)

Convener: Taylor, C.

Co-Convener(s): Janicot, S., Marticorena, B.

Lecture Room 10 (E1)

Chairperson: JANICOT, S

8:30–9:00; EGU2007-A-11547; AS1.14-1FR1O-001

Redelsperger, J.-L.; Thorncroft, C.D.; Diedhiou, A.; Lebel, T.; Parker, D.J.; Polcher, J.

AMMA: An international research project and field campaign (solicited)

9:00–9:30; EGU2007-A-06139; AS1.14-1FR1O-002
Caniaux, G.; Bourlès, B.; Key, E.; Brandt, P.
 Preliminary results from the EGEE/AMMA experiment (solicited)

9:30–9:45; EGU2007-A-02475; AS1.14-1FR1O-003
Bariteau, L.; Fairall, C. W.; Wolfe, D.; Pezoa, S.
 Air-sea fluxes in the northeast tropical Atlantic during May–July 2006

9:45–10:15; EGU2007-A-07503; AS1.14-1FR1O-004
Kergoat, L.; Hiernaux, P.; AMMA land surface working group
 Land surface in AMMA : Extending ecosystem, energy and water balance studies in space and time is sometimes surprising (solicited)

10:15 COFFEE BREAK

Chairperson: TAYLOR, C

10:30–11:00; EGU2007-A-08459; AS1.14-1FR2O-001
Guichard, F.; Lafore, J.-P.
 Atmospheric dynamics over West Africa during the AMMA 2006 SOP campaign (solicited)

11:00–11:15; EGU2007-A-04391; AS1.14-1FR2O-002
Schwendike, J.; Kalthoff, N.; **Kohler, M.**
 Case studies of MCS characteristics in West Africa from the AMMA SOP1 campaign

11:15–11:30; EGU2007-A-01403; AS1.14-1FR2O-003
Flamant, C.; Parker, D.; Chaboureaud, J.-P.; Taylor, C.; Pelon, J.; Bock, O.; Timouck, F.; Cammas, J.-P.
 The impact of a gravity current to the north of the inter-tropical discontinuity region

11:30–11:45; EGU2007-A-02887; AS1.14-1FR2O-004
Pospichal, B.; Crewell, S.
 Diurnal cycle of the inter-tropical discontinuity over central Benin derived from a set of ground-based instruments

11:45–12:00; EGU2007-A-10219; AS1.14-1FR2O-005
Bastin, S.; Drobinski, P.; Sultan, B.; Janicot, S.; Basdevant, C.; Verdier, N.; Vargaz, A.
 Investigation of surface heterogeneities and diurnal cycle on the west african monsoon flow using constant volume balloons in the planetary boundary layer

12:00–12:15; EGU2007-A-04292; AS1.14-1FR2O-006
Bain, C.; Parker, D.; Taylor, C.
 The effect of a soil moisture wave on the Atmosphere over West Africa

12:15 LUNCH BREAK

Chairperson: MARTICORENA, B

13:30–13:45; EGU2007-A-01503; AS1.14-1FR3O-001
Schmidlin, F. J.; Morrison, B.; Baldwin, T.; Northam, E. T.; Moore, P.
 Preliminary results from Cape Verde during the NASA African Monsoon Multidisciplinary Analysis mission

13:45–14:00; EGU2007-A-07536; AS1.14-1FR3O-002
Guichard, F.; Hourdin, F.; Musat, I.; Dell'Aquila, A.; **Ruti, PM**
 How do the large-scale models represent the West African Monsoon mean state and variability (the AMMA-MIP experiment)?

14:00–14:30; EGU2007-A-09100; AS1.14-1FR3O-003
Formenti, P.
 Highlights on aerosol properties and distribution in western Africa based on observations conducted during the special observation periods of AMMA (solicited)

14:30–14:45; EGU2007-A-03944; AS1.14-1FR3O-004
Coe, H.; Capes, G.
 Airborne aerosol measurements over West Africa during the AMMA SOP 1 and 2 field campaign

14:45–15:00; EGU2007-A-10963; AS1.14-1FR3O-005
Chazette, P.; Sanak, J.; Dulac, F.; Sauvage, L.
 Characterisation of multiple aerosol layers originating from various sources above the Sahel region by a synergism of sunphotometer, scatterometer and airborne compact UV EZ LIDAR.

15:00 COFFEE BREAK

Chairperson: MARTICORENA, B

15:30–15:45; EGU2007-A-04951; AS1.14-1FR4O-001
Borrmann, S.; Kunkel, D.; Weigel, R.; Curtius, J.; Shur, G.; Ulanovski, A.
 Ultrafine particles in the West-African UT/LS: In-situ measurements during AMMA in the August 2006 monsoon period

15:45–16:15; EGU2007-A-08982; AS1.14-1FR4O-002
Reeves, C.E.; Parker, D.J.; Taylor, C.M.; Murphy, J.G.; Stewart, D.; Oram, D.E.
 Chemical tracers of emissions, photochemistry and transport processes in West Africa (solicited)

16:15–16:30; EGU2007-A-10751; AS1.14-1FR4O-003
Höller, H.; Schlager, H.; Mari, C.; Scialom, G.; Houngninou, Et.; Schmidt, K.
 An AMMA-SOP2 case study of a small MCS over Benin: Implications for Lightning NO_x production

16:30–16:45; EGU2007-A-06899; AS1.14-1FR4O-004
Cairo, F.; Law, K.; Schlager, H.; THE GEOPHYSICA TEAM
 The M55 Geophysica deployment during the west african Monsoon: campaign overview and preliminary results

16:45–17:00; EGU2007-A-08397; AS1.14-1FR4O-005
Murphy, J.; Oram, D.; Mills, G.; Bandy, B.; Reeves, C.; Lee, J.; Hopkins, J.; McQuaid, J.
 Observations of isoprene and its oxidation products over West Africa

17:00 END OF SESSION

AS1.16 Stratospheric Dynamics and Ozone

Convener: Braesicke, P.
 Co-Convener(s): Langematz, U.
 Lecture Room 1 (G)
 Chairperson: N.N.

10:30–10:45; EGU2007-A-01149; AS1.16-1FR2O-001
Graf, H.-F.; Li, Q.; Giorgetta, M.
 Revisiting the mechanisms of volcanic impact on climate

10:45–11:00; EGU2007-A-03474; AS1.16-1FR2O-002
ORSOLINI, Y.; KARPETCHKO, A.; NIKULIN, G.
 Climate Patterns and The Forcing of The Polar Stratosphere in Winter

11:00–11:15; EGU2007-A-01958; AS1.16-1FR2O-003
Hurwitz, M.M.; Braesicke, P.; Pyle, J.A.
 The stratospheric response to doubled CO₂ in a new chemistry-climate model

11:15–11:30; EGU2007-A-07004; AS1.16-1FR2O-004
Hoor, P.; Bönisch, H.; Engel, A.; Fischer, H.; Gurk, C.; Jöckel, P.; Lelieveld, J.
 Constraining transient times of of bimodal age spectra in the UTLS using in-situ measurements

11:30–11:45; EGU2007-A-05830; AS1.16-1FR2O-005
Miyazaki, K.; Iwasaki, T
 The gradient genesis of the stratospheric trace species in the subtropics and around the polar vortex

11:45–12:00; EGU2007-A-10506; AS1.16-1FR2O-006
Harwood, R.; MacKenzie, I.; Chipperfield, M.; Livesey, N
 A comparison of stratospheric chemistry measurements from EOSMLS on the Aura satellite with a long run of the SLIMCAT model

12:00 END OF SESSION

AS1.16 Stratospheric Dynamics and Ozone – Posters

Convener: Braesicke, P.
 Co-Convener(s): Langematz, U.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 13:30–15:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0036; EGU2007-A-03996; AS1.16-1FR1P-0036
Fischer, A.; Brönnimann, S.; Rozanov, E.; Zeltner, N.; Krähenmann, S.
 20th century ensemble simulations with a chemistry climate model

XY0037; EGU2007-A-08617; AS1.16-1FR1P-0037
Keeley, S.; Gillett, N.
 Separating the radiative and dynamical responses to Antarctic stratospheric ozone depletion

XY0038; EGU2007-A-01952; AS1.16-1FR1P-0038
Hurwitz, M.M.; Duvaux, D.; Braesicke, P.; Pyle, J.A.
 The climate impact of very high stratospheric chlorine loading: a model sensitivity study

XY0039; EGU2007-A-08780; AS1.16-1FR1P-0039
Rozanov, A.; Kuehl, S.; Sinnhuber, B.-M.; Sioris, C.; Bovensmann, H.; Burrows, J.P.; Dorf, M.; Hendrick, F.; Hrechanyy, S.; Sheode, N.; Mainz Team
 Global stratospheric BrO observations by the SCIAMACHY instrument

XY0040; EGU2007-A-10502; AS1.16-1FR1P-0040
Feist, D. G.; Geer, A. J.; Mueller, S.; Kaempfer, N.
 Middle atmosphere water vapour and dynamical features in aircraft measurements and ECMWF analyses

XY0041; EGU2007-A-03986; AS1.16-1FR1P-0041
Brönnimann, S.
 Re-evaluation of the long-term total ozone series from Oxford since 1924

XY0042; EGU2007-A-10108; AS1.16-1FR1P-0042
Scarnato, B.; Staehelin, J.; Stuebi, R.
 Intercomparison of Dobson and Brewer Total Ozone measurements from Arosa (Switzerland)

XY0043; EGU2007-A-09703; AS1.16-1FR1P-0043
Hadjinicolaou, P.; Braesicke, P.; Pyle, J.A.; Harris, N.R.P
 Long-term dynamical and chemical changes of stratospheric ozone: numerical modelling and statistical trend analysis

XY0044; EGU2007-A-07294; AS1.16-1FR1P-0044
Spietz, P.; Guer, B.; Orphal, J.; Weber, M.; Wittrock, F.; Burrows, J. P.
 Atmospheric remote-sensing reference data: Temperature-dependent absorption cross section spectra of ozone in the 235 – 795 nm range obtained with GOME-2 spectrometers

XY0045; EGU2007-A-05178; AS1.16-1FR1P-0045
Huck, P. E.; Tilmes, S.; Bodeker, G. E.; Randel, W. J.; McDonald, A. J.; Nakajima, H.
 An improved measure of ozone depletion in the Antarctic stratosphere

XY0046; EGU2007-A-01991; AS1.16-1FR1P-0046
Charlton, A.J.; Polvani, L.M.; Austin, J.; Li, F
 Changes to Sudden Stratospheric Warmings in Future Climates

XY0047; EGU2007-A-05448; AS1.16-1FR1P-0047
Juckes, M.
 Transport of ozone, methane and water vapour as seen by MIPAS

XY0048; EGU2007-A-07595; AS1.16-1FR1P-0048
Grassi, B.; Redaelli, G.; Visconti, G
 Tropical SST role on the anomalous 2002 polar vortex conditions

XY0049; EGU2007-A-05660; AS1.16-1FR1P-0049
Grytsai, A.; Evtushevsky, O.; Agapitov, O.; Klekociuk, A.; Milinevsky, G.
 Long-term changes of the zonal asymmetry in Antarctic total ozone during spring by TOMS 1979-2005 data

XY0050; EGU2007-A-07627; AS1.16-1FR1P-0050
Agapitov, O.; Evtushevsky, O.; Grytsai, A.; Milinevsky, G.
 Rossby waves in total ozone over south polar region

XY0051; EGU2007-A-06756; AS1.16-1FR1P-0051
Kahya, C.; Aksoy, B.; Demirhan, D.; Topcu, S.; Inceciik, S.; Acar, Y.; Ekici, M.; Ozunlu, M.
 Ozone variability over Ankara, Turkey

XY0052; EGU2007-A-06115; AS1.16-1FR1P-0052
Gogosheva, Ts.; Grigorieva, V.; Mendeve, B.; Kolev, S.; Petkov, B.; Krastev, D.; Videnov, P.
 Study of the Total Ozone over Bulgaria

XY0053; EGU2007-A-10292; AS1.16-1FR1P-0053
Berg, P.; Christiansen, B.; Thejll, P.; Arnold, N.F.
 How the 11-year solar signal in the upper troposphere forces the stratosphere

AS3.01 Gas Phase Composition and Reactivity (General Session)

Convener: Harder, H.
 Co-Convener(s): Dillon, T.
 Lecture Room 12 (E2)
 Chairperson: N.N.

10:30–10:45; EGU2007-A-06575; AS3.01-1FR2O-001
Venables, D.S.; Gherman, T.; Orphal, J.; Ruth, A.A.
 A new, in situ approach to measure HONO and NO₂ simultaneously

10:45–11:00; EGU2007-A-08724; AS3.01-1FR2O-002
Pollmann, J.; Helmig, D.; Tans, P.; Lelieveld, J.
 Measuring the global distribution of non-methane hydrocarbons utilizing the NOAA flask sampling network

11:00–11:15; EGU2007-A-02274; AS3.01-1FR2O-003
Le Bras, G.; Butkovskaya, N.; Kukui, A.
 Nitric acid formation in the HO₂ + NO reaction: parametrisation in the pressure and temperature ranges of the troposphere

11:15–11:30; EGU2007-A-08955; AS3.01-1FR2O-004

Chen, Z.M.; Wang, C.X.

Chemical conversions of organic hydroperoxides in the atmosphere

11:30–11:45; EGU2007-A-08926; AS3.01-1FR2O-005

Noda, J.; Volkamer, R.; Molina, M

BTX dealkylation: a novel pathway in the OH initiated oxidation of aromatics

11:45–12:00; EGU2007-A-09962; AS3.01-1FR2O-006

Glowacki, D.; **Pilling, M.**

Examination of the mechanism of the oxidation of aromatic compounds in the atmosphere

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2007-A-07065; AS3.01-1FR3O-001

Kubistin, D.; GABRIEL team

Hydroxyl Radicals in the Tropical Troposphere during GABRIEL: Comparison of Measurements with the Box Model MECCA

13:45–14:00; EGU2007-A-02327; AS3.01-1FR3O-002

Stickler and the GABRIEL TEAM, A.; THE GABRIEL TEAM

Chemistry, Transport and dry Deposition of Trace Gases in the Boundary Layer over the tropical Atlantic Ocean and the Guyanas during the GABRIEL Field Campaign

14:00–14:15; EGU2007-A-07084; AS3.01-1FR3O-003

Butler, T.M.; Fischer, H.; Harder, H.; Joeckel, P.; Lawrence, M.G.; Tanarhte, M.; Williams, J.; Lelieveld, J

Analysis of the Observations From the GABRIEL Field Campaign (Surinam, October 2005) Using Three Dimensional Global Atmospheric Chemistry Models.

14:15–14:30; EGU2007-A-06383; AS3.01-1FR3O-004

Heue, K.-P.; Wagner, T.; Broccardo, S. P.; Piketh, S. J.; Ross, K. E.; Platt, U.

Direct Observation of two dimensional Trace Gas Distributions with an airborne Imaging DOAS Instrument

14:30–14:45; EGU2007-A-06777; AS3.01-1FR3O-005

Fischer, H.; Lawrence, M.G.

On the relationship between HCHO and CO in the marine boundary layer during INDOEX

14:45–15:00; EGU2007-A-04096; AS3.01-1FR3O-006

Aufmhoff, H.; Jurkat, T.; Reichl, U.; Roiger, A.; Arnold, F.; Schlager, H.; O'Dowd, C.

Sulfur-bearing aerosol precursor gases in the marine boundary layer: measurements of sulfuric acid, methane sulfonic acid, and sulfur dioxide on a research ship cruise in the north atlantic

15:00 END OF SESSION

AS3.01 Gas Phase Composition and Reactivity (General Session) – Posters

Convener: Harder, H.

Co-Convener(s): Dillon, T.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 08:30–10:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0054; EGU2007-A-05565; AS3.01-1FR1P-0054

Majeed, T.; Sajwani, A.; Tarasick, D. W.; Davies, J.; Al-Mualla, M. A.; Lootah, M.; Kaminski, J.; Neary, L.; Lupu, A.; McConnell, J. C.

An Ozone Study with Balloon-Borne ECC Soundings over the UAE: Analysis with a Global Environmental Multi-scale Model

XY0055; EGU2007-A-06641; AS3.01-1FR1P-0055

Schnitzhofer, R.; Norman, M.; Dunkl, J.; Wisthaler, A.; Gohm, A.; Obleitner, F.; Neininger, B.; Hansel, A.

Vertical Distribution of Air Pollutants in the Inn Valley Atmosphere in Winter 2006

XY0056; EGU2007-A-07406; AS3.01-1FR1P-0056

Beine, H.J.; Amoroso, A.; Esposito, G.; Nardino, M.; Montagnoli, M.; Ianniello, A.

Relationship Between HNO₃, NO, NO₂ and HONO Fluxes Above Snow Surfaces at Ny-Ålesund, Svalbard (Arctic)

XY0057; EGU2007-A-09217; AS3.01-1FR1P-0057

Afif, C.; Abboud, M.; Farah, W.; Perros, P.; Jambert, C

Variation of HONO and other air quality indicators in the city of Beirut

XY0058; EGU2007-A-08533; AS3.01-1FR1P-0058

Read, K.; Carpenter, L.; Lewis, A.; Lee, J.; Hopkins, J.; Mendes, L.; Pilling, M.; Plane, J.; Mahajan, A.; Saiz-Lopez, A.

Reactive gas measurements at the Cape Verde Atmospheric Observatory

XY0059; EGU2007-A-07057; AS3.01-1FR1P-0059

Arnold, S.R.; Methven, J.; Evans, M.J.; Chipperfield, M.P.; Lewis, A.C.; Hopkins, J.R.; Watson, N.; Atlas, E.L.; Blake, D.R.; Rappengluck, B.

Statistical inference of OH concentrations and air mass dilution rates from successive observations of non-methane hydrocarbons in single air masses

XY0060; EGU2007-A-03496; AS3.01-1FR1P-0060

Gebhardt, S.; Colomb, A.; Hofmann, R.; Williams, J.; Lelieveld, J.

Halogenated Organic Species over the Tropical Rainforest

XY0061; EGU2007-A-02565; AS3.01-1FR1P-0061

Yassaa, N.; Williams, J.; Bartenbach, S.; Lelieveld, J.

Mirror image hydrocarbons from Tropical and Boreal forests

XY0062; EGU2007-A-05201; AS3.01-1FR1P-0062

Sinha, V.; Williams, J.; Crowley, J.; Lelieveld, J

Comparative Reactivity Method – A new tool to measure total OH Reactivity

XY0063; EGU2007-A-10484; AS3.01-1FR1P-0063

Eerdeken, G.; Williams, J.; Klüpfel, T.; Yassaa, N.; Ganzeveld, L.; Lelieveld, J.

Isoprene flux estimates from airborne PTRMS measurements above the tropical rainforest during the Gabriel 2005 campaign

XY0064; EGU2007-A-07020; AS3.01-1FR1P-0064

Martinez, M.; THE GABRIEL TEAM

OH and HO₂ measured over a tropical rain forest: An indication for yet unknown HO_x chemistry

XY0065; EGU2007-A-06602; AS3.01-1FR1P-0065

Nøjgaard, J.K.; Nøjgaard, A.W.; Wolkoff, P.

Secondary ozonides of endo-cyclic alkenes analyzed by Atmospheric Sampling Townsend Discharge Ionization Mass Spectrometry

XY0066; EGU2007-A-06792; AS3.01-1FR1P-0066
Hendrick, F.; Fayt, C.; Hermans, C.; Pinardi, G.; Van Roozendaal, M.; De Mazière, M.
 Retrieval of NO₂ profile using ground-based MAX-DOAS measurements from the DANDELIONS-II campaign

XY0067; EGU2007-A-10627; AS3.01-1FR1P-0067
 Anderson, F.; Commane, R.; Glowacki, D.; Goddard, A.; Hemavibool, K.; Ingham, T.; Malkin, T.; **Heard, D.;** Pilling, M.; Seakins, P.
 HIRAC - A Highly Instrumented Reactor for Atmospheric Chemistry

XY0068; EGU2007-A-01551; AS3.01-1FR1P-0068
Khamaganov, V.; Karunanandan, R.; Rodriguez, A.; Crowley, J.N.
 Pressure Dependent Quantum Yields of CH₃ Formation from Photolysis of Acetone, MethylEthylKetone and Acetyl Bromide.

XY0069; EGU2007-A-02271; AS3.01-1FR1P-0069
Dillon, T.J.; Horowitz, A.; Crowley, J.N.
 On the atmospheric chemistry of sulphuryl fluoride

XY0070; EGU2007-A-03058; AS3.01-1FR1P-0070
Cassanelli, P.; Fox, D.J.; Cox, R.A.
 Temperature dependence of alkyl nitrate formation from the reaction of alkyl peroxy radicals with NO

XY0071; EGU2007-A-04954; AS3.01-1FR1P-0071
Nádasdi, R.; Kovács, Gg.; Zügner, G.; Szilágyi, I.; Dóbe, S.; Bérces, T.; Márta, F.
 Laboratory studies on the atmospheric photochemistry of acetone and methyl-ethyl-ketone

XY0072; EGU2007-A-00906; AS3.01-1FR1P-0072
e. Szabo, e. S.; j. Tarmoul, j. T; a. Tomas, a. T; c. Fittschen, c. F; p. Coddeville, p. C; s. Dobe, s. D
 O the Oxidation of acetic acid isotopomers with the OH radical in the Gas Phase

XY0073; EGU2007-A-06010; AS3.01-1FR1P-0073
Dommen, J.; Metzger, A.; Gaeggeler, K.; Gascho, A.; Baltensperger, U.
 Evaluation of detailed mechanism (MCM v3) against smog chamber data of 1,3,5-trimethylbenzene

XY0074; EGU2007-A-00942; AS3.01-1FR1P-0074
White, I.R.; Martin, D.; Muñoz, M.P.; Nickless, G.; Lloyd-Jones, G.; Shallcross, D.E.
 The Development of a Novel Method for the Quantification of the Hydroxyl Radical on local and regional scales

XY0075; EGU2007-A-09560; AS3.01-1FR1P-0075
 Caro, D.; **Hauglustaine, D.;** Hoor, P.; Van Velthoven, P.
 A numerical study of the impact of emissions from different modes of transport (land based, aircraft, ships) on tropospheric chemistry

XY0076; EGU2007-A-01749; AS3.01-1FR1P-0076
 Solé, JG; **Adame, JA**
 Assessment of the ozone concentration at Ebre Observatory (Northeast of Spain)

XY0077; EGU2007-A-01854; AS3.01-1FR1P-0077
Adame, J.A.; Lozano, A.; De la Morena, B.; Contreras, J.; Bolívar, J.P.; Godoy, F.
 Analysis of the ozone concentrations in Seville metropolitan area (Spain)

XY0078; EGU2007-A-03582; AS3.01-1FR1P-0078
Caballero, S.; Galindo, N.; Varea, M.; Gil-Molto, J.; Esclapez, R.; Pastor, C.; Crespo, J.
 Spatial distribution of the tropospheric ozone concentration in a region located in the south of the spanish mediterranean basin

XY0079; EGU2007-A-06705; AS3.01-1FR1P-0079
 Esclapez, R.; **Galindo, N.;** Caballero, S.; Gil-Moltó, J.; Varea, M.; Crespo, J.
 Nitrogen dioxide spatial distribution in a southeastern spanish city: a passive sampler study

XY0080; EGU2007-A-00825; AS3.01-1FR1P-0080
Berezina, E.V.; Safronov, A.N.; Belikov, I.B.; Brenninkmeijer, C.A.M; Elansky, N.F.
 Spatial and temporal distribution of ²²²Rn concentrations in the atmospheric surface layer over Russia from TROICA experiments

XY0081; EGU2007-A-05369; AS3.01-1FR1P-0081
Ziereis, H.; Schlager, H.; Stock, P.; Schumann, U.; Brenninkmeijer, C.A.M; Slemr, F.; Zahn, A.; Hermann, M.
 Large scale distribution of nitrogen oxides in the UTLS -Results of the NO and NO_y measurements during CARIBIC

XY0082; EGU2007-A-06775; AS3.01-1FR1P-0082
Schuepbach, E.
 Creating partnerships for learning in atmospheric composition change - an ACCENT perspective

AS3.04 Tropospheric Composition: Variability and Trends

Convener: Tarasova, O.
 Co-Convener(s): Schultz, M.
 Lecture Room 12 (E2)
 Chairperson: SCHULTZ, M.G.; STRUZEWSKA, J.

8:30–8:45; EGU2007-A-07974; AS3.04-1FR1O-001
Richter, A.; Heckel, A.; Lee, C.; Wittrock, F.; Burrows, J. P.
 One decade of SO₂ measurements from space

8:45–9:00; EGU2007-A-05091; AS3.04-1FR1O-002
Granier, C.; Mieville, A.; Lioussé, C.; Guillaume, B.; Gregoire, J.-M.; Mouillot, F.
 Emissions of gases and aerosols resulting from biomass burning during the 1900-2003 period

9:00–9:15; EGU2007-A-04077; AS3.04-1FR1O-003
Chevalier, A.; Delmas, R.; Attié, J.-L.; Gheusi, F.; Zbinden, R.; Athier, G.; Cousin, J.-M.
 Carbon monoxide observations from ground stations over France and Western Europe: long trends in the free troposphere

9:15–9:30; EGU2007-A-02101; AS3.04-1FR1O-004
Edwards, D. P.; Petron, G.; Novelli, P. C.; Emmons, L. K.; Gille, J. C.; Drummond, J. R.
 The variability of southern hemisphere CO pollution as observed by MOPITT and the response to climate

9:30–9:45; EGU2007-A-00690; AS3.04-1FR1O-005
Petersen, A. K.; Warneke, T.; Velasco, V.; Notholt, J.; Frankenberg, C.; Meirink, J. F.; Bergamaschi, P.; Schrems, O.
 Ground-based solar absorption measurements of CH₄, CO, C₂H₆, C₂H₂ and HCN in the tropics

9:45–10:00; EGU2007-A-07145; AS3.04-1FR1O-006
Allen, G.; THE ACTIVE TEAM
 Boundary layer aerosol and trace gas climatologies from ACTIVE

10:00 END OF SESSION

AS3.04 Tropospheric Composition: Variability and Trends – Posters

Convener: Tarasova, O.
Co-Convener(s): Schultz, M.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: EDWARDS, D.P.; TARASOVA, O.

XY0083; EGU2007-A-01844; AS3.04-1FR2P-0083
Saiz-López, A.; Notario, A.; Albadalejo, J.; Poblete, F.;
Adame, J.A.; Domínguez, D.; Bolívar, J.P.
Variability of NO, NO₂, O₃, SO₂ and toluene measured
with a DOAS system at Puertollano (Spain).

XY0084; EGU2007-A-01398; AS3.04-1FR2P-0084
Skorokhod, A.; Elansky, N.; Lavrova, O.; Kopeikin, V.;
Grissenko, A.
Urban Pollution in Russia on Base of TROICA Data

XY0085; EGU2007-A-01399; AS3.04-1FR2P-0085
Elansky, N.; **Skorokhod, A.**; Belikov, I.; Lavrova, O.;
Kopeikin, V.; Andronova, A.; Grissenko, A.; Zapevalow, M.
TROICA-10 Experiment: Study of Moscow Pollution Plume
by Mobile Railway Laboratory.

XY0086; EGU2007-A-02675; AS3.04-1FR2P-0086
Maione, M.; Arduini, J.; Ugucioni, F.; Bonasoni, P.;
Vuillermoz, E.
Observations of climate altering gases at a Himalayan site

XY0087; EGU2007-A-03243; AS3.04-1FR2P-0087
Delcloo, A.; De Backer, H.
Seasonal trends in ozone concentrations in the planetary
boundary layer and the free troposphere at Uccle

XY0088; EGU2007-A-08981; AS3.04-1FR2P-0088
Tarasova, O.A.; Kuznetsov, G.I.
Impact of horizontal atmospheric transport on the observed
trends of the surface ozone concentration over Europe

XY0089; EGU2007-A-11024; AS3.04-1FR2P-0089
Senik, I.A.
The results of spectral analysis application to the surface
ozone variability at the North Caucasus

XY0090; EGU2007-A-08638; AS3.04-1FR2P-0090
Nisbet, E.G.; Lowry, D.; Masarie, K.; Fisher, R.; Sriskantharajah, S.; Smith, D.; Nisbet, P.; **Fowler, C.M.R**
Carbon gases in the London air - the 2000–2006 record

XY0091; EGU2007-A-08017; AS3.04-1FR2P-0091
Artuso, F.; Chiavarini, S.; Chamard, P.; Piacentino, S.;
Sferlazzo, D.M.
Time series and trends of tropospheric halocarbons in the
Mediterranean

XY0092; EGU2007-A-00896; AS3.04-1FR2P-0092
Young, P.; Zeng, G.; Pyle, J.
Biogenic emissions and atmospheric composition towards
the end of this century

XY0093; EGU2007-A-03930; AS3.04-1FR2P-0093
Liousse, C.; Guillaume, B.; Junker, C.; Granier, C.;
Mieville, A.; Grégoire, J.M.
Global emission inventories of gases and particles from
fossil fuel and biofuel consumption for the period 1860-2030
with tentative validations with carbonaceous aerosol TM4
global modeling

XY0094; EGU2007-A-05538; AS3.04-1FR2P-0094
Granier, C.; Niemeier, U.; Jungclaus, J.; Emmons, L.;
Hess, P.; Lamarque, J.-F.; Walters, S.; Brasseur, G.
Future ship traffic in the northern passages: impact on the
Arctic atmospheric composition

XY0095; EGU2007-A-01516; AS3.04-1FR2P-0095
De Meij, A.; Krol, M.; Dentener, F.; Vignati, E.; Cuvelier, C.; Thunis, P.
The sensitivity of aerosol in Europe to two different emission
inventories and temporal distribution of emissions.

XY0096; EGU2007-A-04124; AS3.04-1FR2P-0096
Heil, A.; Langmann, B.; Schultz, M.; Rast, S.; Graf, H.
Atmospheric implications of Indonesian peat fires

XY0097; EGU2007-A-05422; AS3.04-1FR2P-0097
Schnadt Poberaj, C.; QUANTIFY-AC3-TEAM
First results of QUANTIFY model evaluation of global
chemistry models

XY0098; EGU2007-A-06553; AS3.04-1FR2P-0098
Hoor, P.; THE QUANTIFY-AC3 TEAM
First results from QUANTIFY: Ozone perturbations from
traffic emissions and the chemical state of the atmosphere

XY0099; EGU2007-A-07912; AS3.04-1FR2P-0099
FOLBERTH, G.A.; bey, I.; pozzoli, L.; rast, S.; schultz, M.
Assessing The Role Of Air Pollution In Extreme Climate
Events By Means Of Its Potential Contribution To The 2003
Heatwave Over Europe

XY0100; EGU2007-A-05882; AS3.04-1FR2P-0100
Boone, C.D.; Walker, K.A.; Dufour, G.; Rinsland, C.P.;
Bernath, P.F.
Measurements of tropospheric species from the Atmospheric
Chemistry Experiment Fourier Transform Spectrometer
(ACE-FTS)

XY0101; EGU2007-A-06629; AS3.04-1FR2P-0101
Wespes, C.; Coheur, P.-F.; Hurtmans, D.; Herbin, H.;
Razavi, A.; Clerbaux, C.; Turquety, S.; Hadji-Lazaro, J.;
Bernath, P.; Boone, C.
ACE remote-sensing of NO_y in the troposphere: first global
distribution

XY0102; EGU2007-A-06492; AS3.04-1FR2P-0102
Razavi, A.; Clerbaux, C.; Coheur, P.-F.; Hurtmans, D.;
Wespes, C.; George, M.; Turquety, S.; Hadji-Lazaro, J.
Remote sensing of methane : global distributions using
thermal infrared spectroscopy

XY0103; EGU2007-A-06948; AS3.04-1FR2P-0103
Duchatelet, P.; Mahieu, E.; Demoulin, P.; De Mazière, M.;
Senten, C.; Bernath, P.; Boone, C.; Walker, K.
Approaches for retrieving abundances of methane iso-
topologues in the frame of the AGACC project from
ground-based FTIR observations performed at the Jungfrau-
joch

XY0104; EGU2007-A-06501; AS3.04-1FR2P-0104
Gelencsér, A.; May, B.; Simpson, D.; Sánchez-Ochoa, A.;
Kasper-Giebl, A.; Puxbaum, H.; Pio, C.; **Legrand, M.**
Source apportionment of PM_{2.5} organic aerosol over
Europe: primary/ secondary, natural/ anthropogenic, fos-
sil/biogenic origin

XY0105; EGU2007-A-08815; AS3.04-1FR2P-0105
Vrekoussis, M.; Wittrock, F.; Richter, A.; Burrows, JP
Long-term measurements of glyoxal (CHOCHO) and
formaldehyde (HCHO) from space.

XY0106; EGU2007-A-07059; AS3.04-1FR2P-0106
Mahieu, E.; Duchatelet, P.; Demoulin, P.; Servais, C.;
De Mazière, M.; Senten, C.; Rinsland, C.P.; Bernath, P.;
Boone, C.D.; Walker, K.A.
Retrievals of HCN from high-resolution FTIR solar spectra
recorded at the Jungfraujoch station

XY0107; EGU2007-A-07127; AS3.04-1FR2P-0107
 Gloude-mans, A.; Krol, M.; de Laat, J.; Meirink, J.F.; van der Werf, G.; Schrijver, H.; **Aben, I.**
 Interannual Variability and Trends of CO as seen by SCIAMACHY

XY0108; EGU2007-A-07431; AS3.04-1FR2P-0108
Ladstätter-Weissenmayer, A.; Khlystova, I.; Meyer-Arne, J.; Richter, A.; Wittrock, F.; Burrows, J. P.
 The use of GOME and SCIAMACHY data to study the impact of biomass burning pollution over Portugal in August 2003

XY0109; EGU2007-A-02111; AS3.04-1FR2P-0109
Noguchi, K.; Itoh, H.; Shibasaki, T.; Hayashida, S.; Uno, I.; Richter, A.; Burrows, J. P.
 Comparison between GOME and surface measurements of tropospheric NO₂ over Japan

XY0110; EGU2007-A-00966; AS3.04-1FR2P-0110
Voulgarakis, A.; Savage, N.; Wild, O.; Pyle, J.
 The sensitivity of the NO₂ columns to the interannual variability of factors affecting photolysis rates compared to GOME retrievals

XY0111; EGU2007-A-07343; AS3.04-1FR2P-0111
Beirle, S.; Deutschmann, T.; Grzegorski, M.; Platt, U.; Wagner, T.
 Impact of clouds on tropospheric trace gas retrievals

XY0112; EGU2007-A-08938; AS3.04-1FR2P-0112
Crevoisier, C.; Scott, N.; Chédin, A.; Dufour, G.; Armande, A.
 Four years of CO₂ monitoring from space using Aqua/AIRS high spectral resolution infrared observations. Implication for MetOp/IASI

XY0113; EGU2007-A-08588; AS3.04-1FR2P-0113
 Levelt, P.F.; Veihelmann, B.; Braak, R.; Bhartia, P.K.; Tamminen, J.; Veeckind, P.; Dobber, M.
 Overview of Science Results of Aura's Ozone Monitoring Instrument

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 13:30–15:00

AS Poster Area
 Chairperson: N.N.

AS3.13 Polar Ozone

Convener: Braathen, G.
 Lecture Room 12 (E2)
 Chairperson: N.N.

15:30–15:45; EGU2007-A-07583; AS3.13-1FR4O-001
Schofield, R.; Frieler, K.; Rex, M.; Wohltmann, I.; von Hobe, M.; Strohm, F.; Koch, G.; Peter, T.; Canty, T.; Salawitch, R.
 'ClO Match' An examination of chlorine kinetics using the self-Match flight during EUPLEX II 2004

15:45–16:00; EGU2007-A-08620; AS3.13-1FR4O-002
von Hobe, M.; Grob, J.-U.; Müller, R.; Salawitch, R. J.; Canty, T.; Strohm, F.
 Inconsistencies in our Understanding of the ClO Dimer Cycle and Implications for polar Ozone Loss

16:00–16:15; EGU2007-A-08023; AS3.13-1FR4O-003
Pazmiño, A.; Godin-Beekmann, S.; Hauchecorne, A.; Piacentini, R.; Quel, E.
 Polar ozone and UV radiation at southern sub-polar latitudes in the period 1997-2005

16:15–16:30; EGU2007-A-05681; AS3.13-1FR4O-004
 Evtushevsky, O.; **Milnevsky, G.;** Grytsai, A.; Grytsai, Z.; Kravchenko, V.
 Comparison of total ozone from EP-TOMS and Dobson spectrophotometer measurements for Vernadsky station 1996-2005

16:30–16:45; EGU2007-A-08148; AS3.13-1FR4O-005
Rösevall, J. R.; Murtagh, D. P.; Jones, A. K.
 A quantitative Study of Ozone Losses in the Polar-Vortex by assimilation of Odin/SMR Data.

16:45–17:00; EGU2007-A-03053; AS3.13-1FR4O-006
Hofmann, D.J.; Montzka, S.A.
 An ozone depleting gas index for the polar regions (solicited)

17:00 END OF SESSION

AS3.13 Polar Ozone – Posters

Convener: Braathen, G.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 08:30–10:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0114; EGU2007-A-01912; AS3.13-1FR1P-0114
Goutail, F.; The ozone loss team
 Total ozone loss during the 2006/07 Arctic winter and comparison to previous years

XY0115; EGU2007-A-09461; AS3.13-1FR1P-0115
Braathen, G.; 2006 Ozone Hole Team
 The unusually large 2006 Antarctic ozone hole

XY0116; EGU2007-A-10614; AS3.13-1FR1P-0116
Tripathi, O.P.; Godin-Beekmann, S.; Lefèvre, F.; Pazmiño, A.; Hauchecorne, A.; Chipperfield, M.; Millard, G.; Feng, W.; Rex, M.; Streibel, M.
 Simulated polar ozone loss rates compared with Match observations in recent Antarctic and Arctic winters

XY0117; EGU2007-A-11208; AS3.13-1FR1P-0117
 Tripathi, O.P.; Godin-Beekmann, S.; Lefèvre, F.; **Pazmiño, A.;** Hauchecorne, A.; Chipperfield, M.; Feng, W.; Millard, G.; Rex, M.; von der Gathen, P.
 Simulated polar ozone loss rates compared with Match observations in recent Antarctic and Arctic winters

XY0118; EGU2007-A-01876; AS3.13-1FR1P-0118
Daerden, F.; Larsen, N.; Chabrilat, S.; Errera, Q.; Bonjean, S.; Fonteyn, D.; Hoppel, K.; Fromm, M.
 A 3D-CTM with detailed online PSC-microphysics: analysis of the Antarctic winter 2003 by comparison with satellite observations

XY0119; EGU2007-A-06618; AS3.13-1FR1P-0119
Feck, T.; Grob, J.-U.; Riese, M.
 Difference in H₂O Sensitivity of the Temperature-Based Proxies for Solid and Liquid Aerosols and Its Consequence in the Prediction of Polar Ozone Losses

XY0120; EGU2007-A-08879; AS3.13-1FR1P-0120
Höpfner, M.; Grabowski, U.; Stiller, G. P.; von Clarmann, T.
 Climatology of Arctic and Antarctic polar stratospheric clouds (PSCs) from 2002-2007 as observed by MIPAS

XY0121; EGU2007-A-10442; AS3.13-1FR1P-0121
Kivi, R.; Vömel, H.
 Observations of stratospheric water vapor in the Arctic

XY0122; EGU2007-A-03855; AS3.13-1FR1P-0122
Grob, J.-U.; Müller, R.; Konopka, P.; Steinhilber, H.-M.; Engel, A.; Möbius, T.; Volk, C.M.; von Clarmann, T.
 The impact of mixing across the polar vortex edge on ozone loss estimates

XY0123; EGU2007-A-05873; AS3.13-1FR1P-0123
Walker, K.A.; Strong, K.; Canadian Arctic Validation of ACE Campaign Team
 Measurements of ozone from the Canadian Arctic Validation of ACE Campaign Project: 2004, 2005, 2006 and 2007

XY0124; EGU2007-A-10324; AS3.13-1FR1P-0124
Kivi, R.; Heikkinen, P.; Kyrö, E.; Bojkov, B.; Brinksma, E.
 Ozone sondes observations in March-April 2006 during the Sodankylä Total Ozone Intercomparison and Validation Campaign (SAUNA)

XY0125; EGU2007-A-10727; AS3.13-1FR1P-0125
Kostadinov, I.; Bortoli, D.; Giovanelli, G.; Palazzi, E.; Petritoli, A.; Ravagnani, F.
 GASCOD/A4pi DOAS ozone measurements aboard M55 Geophysica aircraft during Kiruna ENVISAT validation campaign

XY0126; EGU2007-A-11568; AS3.13-1FR1P-0126
Peshin, S.K.
 O₃, SO₂, NO₂ and UV-B measurements made with Brewer Spectrophotometer at Maitri, Antarctica

XY0127; EGU2007-A-11571; AS3.13-1FR1P-0127
Lu, L.; Zheng, X.; Bian, L.
 Behaviour of the "Ozone hole" over the Antarctic Zhongshan station in the past decade revealed by the measurements of Brewer#074 and satellites

Biogeosciences

BG1.01 From biogenic primary exchange to atmospheric fluxes of reactive trace gases

Convener: Kesselmeier, J.
 Co-Convener(s): Schnitzler, J., Rinne, J., Meixner, F.
 Lecture Room 19
 Chairperson: KESSELMEIER, J

8:30–9:00; EGU2007-A-01094; BG1.01-1FR1O-001
Kuhn, U.; LBA-CLAIRE team
 Fluxes of volatile organic compounds from Amazonian rainforest: implications for atmospheric chemistry and the local carbon budget (solicited)

9:00–9:15; EGU2007-A-11203; BG1.01-1FR1O-002
Fuentes, J.D.; Stockwell, W.R.; Zhang, Y.
 Chemical processing of biogenic hydrocarbons within and above forests

9:15–9:30; EGU2007-A-03876; BG1.01-1FR1O-003
Wildt for the JPAC06 Team, J.; JPAC06 Team
 Secondary organic aerosol formation from boreal tree emissions

9:30–9:45; EGU2007-A-09784; BG1.01-1FR1O-004
Brunner, A.; Ammann, C.; Jocher, M.; Spirig, C.; Neftel, A.
 Ozone triggers VOC emissions of grassland species

9:45–10:00; EGU2007-A-06415; BG1.01-1FR1O-005
Schaub, A.; Beauchamp, J.; Mumm, R.; Dicke, M.; Hansel, A.
 Monitoring herbivore induced VOC emissions from plants

10:00 COFFEE BREAK

Chairperson: KESSELMEIER, J

10:30–10:45; EGU2007-A-06081; BG1.01-1FR2O-001
Louis, S.; Loivamäki, M.; Mayrhofer, S.; Teuber, M.; Zimmer, I.; Cinege, G.; Schnitzler, J.P.
 Circadian clock regulation in poplar complicates isoprene emission modelling.

10:45–11:00; EGU2007-A-05742; BG1.01-1FR2O-002
Suntharalingam, P.; Kettle, A.; Montzka, S.; Jacob, D.; Yantosca, R.
 Factors governing spatial and temporal variations of atmospheric carbonyl sulfide

11:00–11:15; EGU2007-A-00647; BG1.01-1FR2O-003
Farmer, D K.; Wooldridge, P J; Cohen, R C
 Observations of HNO₃, total alkyl nitrates, total peroxy nitrates and NO₂ fluxes: Mechanisms controlling exchange over a ponderosa pine forest

11:15–11:30; EGU2007-A-02906; BG1.01-1FR2O-004
Wolff, V.; Trebs, I.; Ammann, C.; Spierig, C.; Flechard, C.; Neftel, A.; Meixner, F.X.
 Concentrations and fluxes of soluble reactive nitrogen compounds over an intensively managed grassland site

11:30–11:45; EGU2007-A-07968; BG1.01-1FR2O-005
Zechmeister-Boltenstern, S.; Schaufler, G.; Kitzler, B.
 NO, NO₂, N₂O, CO₂ and CH₄ fluxes from soils under different land use: temperature sensitivity and effects of soil moisture

11:45–12:00; EGU2007-A-03319; BG1.01-1FR2O-006
Reth, S.; Graf, W.; Gefke, O.; Schilling, R.; Seidlitz, H.K.; Munch, J.C.
 Vertical profile of the trace gas N₂O: A lysimeter soil study

12:00 END OF SESSION

BG1.01 From biogenic primary exchange to atmospheric fluxes of reactive trace gases – Posters

Convener: Kesselmeier, J.
 Co-Convener(s): Schnitzler, J., Rinne, J., Meixner, F.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 13:30–15:00
 Poster Area Foyer BG
 Chairperson: SCHNITZLER, JP

BG0001; EGU2007-A-01517; BG1.01-1FR3P-0001
Muller, C.
 Biogeoscience review of ENVISAT atmospheric results.

BG0002; EGU2007-A-05627; BG1.01-1FR3P-0002
Noe, S.M.; Niinemets, Ü.; Lang, M.; Nilson, T.
 Estimating regional biogenic isoprenoid fluxes using LAI maps based on remote sensing techniques

BG0003; EGU2007-A-06095; BG1.01-1FR3P-0003
Skorokhod, A.; Verkhovets, S.; Vaganov, Y.; Elansky, N.
 Ecosystem observations and perspectives of atmospheric chemistry research in Central Siberia due to Zotino tall tower construction.

BG0004; EGU2007-A-03980; BG1.01-1FR3P-0004
Zygmuntowski, M.; Viville, D.; Najjar, G.; Kastendeuch, P.
 Turbulent CO₂ and H₂O flux measurements with an eddy-covariance-system over a wheat field in the Upper Rhine Valley (Project INTERREG IIIa 3c.10)

BG0005; EGU2007-A-06399; BG1.01-1FR3P-0005
Taipale, R.; Rinne, J.; Ruuskanen, T. M.; Kajos, M.; Hakola, H.; Hellä©n, H.; Vesala, T.; Kulmala, M.
 Disjunct eddy covariance measurements of volatile organic compound emissions from a boreal pine forest

BG0006; EGU2007-A-07944; BG1.01-1FR3P-0006
Đlugi, R.; Berger, M.; Zelger, M.
 Energy and Mass Transfer of Chemical Reactive Compounds Above and Inside Tall Vegetation

BG0007; EGU2007-A-03326; BG1.01-1FR3P-0007

Karl, M.; Dosio, A.; Köble, R.; Lenz, R.; Ganzeveld, L.; Seufert, G.

Assessing emission fluxes of isoprene over Europe: combination of meteorology and land use information on a high spatial resolution

BG0008; EGU2007-A-10237; BG1.01-1FR3P-0008

Ammann, C.; Brunner, A.; Spirig, C.; Jocher, M.; Neftel, A. Cut and growth related VOC emissions from temperate grassland

BG0009; EGU2007-A-02422; BG1.01-1FR3P-0009

Bouvier-Brown, N.C.; Holzinger, R.; Palitzsch, K.; Goldstein, A.H.

Characterizing biogenic emissions of sesquiterpene and oxygenated terpene compounds

BG0010; EGU2007-A-03444; BG1.01-1FR3P-0010

Boissard, C.; Dutot, A.; Chervier, F. Assessment of biogenic isoprene emission variations

BG0011; EGU2007-A-03824; BG1.01-1FR3P-0011

Ruuskanen, T.; **Rinne, J.;** Kajos, M.; Hellen, H.; Hakola, H.; Tarvainen, V.

Volatile organic compound emissions from Siberian larch

BG0012; EGU2007-A-03873; BG1.01-1FR3P-0012

Haapanala, S.; Ekberg, A.; Rinne, J.; Hakola, H.; Hellen, H.; Tarvainen, V.; Arneth, A.

Emissions of volatile organic compounds from mountain birch

BG0013; EGU2007-A-05386; BG1.01-1FR3P-0013

Isidorov, V.; Povarov, V.; Stepanov, A.

Non-photochemical sink of atmospheric isoprene: sorption by underlying surface

BG0014; EGU2007-A-01653; BG1.01-1FR3P-0014

Campbell, J. E.; Carmichael, G. R.; Blake, N. J.; Vay, S. A.; Choi, Y. H.; Chai, T.; Tang, Y.; Mena-Carrasco, M.; Schnoor, J. L.; Stanier, C. O.

Gross surface fluxes of carbonyl sulfide and carbon dioxide inferred from the simultaneous assimilation of boundary layer observations

BG0015; EGU2007-A-05993; BG1.01-1FR3P-0015

Van Diest, H.; Kesselmeier, J.

Diffusivity and enzymatic activity control the exchange of Carbonyl Sulfide (COS) between soils and the atmosphere

BG0016; EGU2007-A-10771; BG1.01-1FR3P-0016

Meixner, F.X.; Scheibe, M.; Wolff, V.; Klanner, L.

Gradient measurements of O₃, NO, NO₂, CO₂, H₂O and meteorological quantities at a steep floor of a mountainous spruce forest (Hohenpeissenberg, Germany)

BG0017; EGU2007-A-05402; BG1.01-1FR3P-0017

Norman, M.; **Wisthaler, A.;** Hansel, A.

O₂⁺ as primary reagent ion in the PTR-MS instrument: detection of gas-phase ammonia

BG0018; EGU2007-A-07352; BG1.01-1FR3P-0018

McGrath, G.S.; **Hinz, C.**

Using the structure of rainfall to predict NO_x emissions from soil

BG1.02 Methane fluxes from permafrost ecosystems in relation to climate change

Convener: van Huissteden, K.

Co-Convener(s): Christensen, T.

Lecture Room 20 (N)

Chairperson: N.N.

10:30–10:45; EGU2007-A-00667; BG1.02-1FR2O-001

Zimov, S.A.; Zimov, N.S.; Zimova, G.M.; Zimova, A.E.; Chapin III, F.S.

Diffusion O₂ in soil as a controlling factor of CO₂ and CH₄ emission from thawing permafrost (solicited)

10:45–11:00; EGU2007-A-11450; BG1.02-1FR2O-002

Crill, P.; Bäckstrand, K.; **Christensen, T.R.;** Mastepanov, M. Growing season hydrocarbon flux dynamics at a subarctic mire, northern Sweden

11:00–11:15; EGU2007-A-06049; BG1.02-1FR2O-003

Fedorova, E.; **Ginzburg, A.;** Vinogradova, A.

Seasonal variations of atmospheric methane and hot winter 2006-2007

11:15–11:30; EGU2007-A-03472; BG1.02-1FR2O-004

Ström, L.; Christensen, T.R.

Below ground carbon turnover and greenhouse gas exchanges in a sub-arctic wetland subject to permafrost degradation

11:30–11:45; EGU2007-A-02003; BG1.02-1FR2O-005

van der Molen, M.K.; Parmentier, F.J.; **van Huissteden, J.;** Kononov, A.V.; Dolman, A.J.; Maximov, T.C.

The greenhouse gas balance of a Siberian tundra site.

11:45–12:00; EGU2007-A-00472; BG1.02-1FR2O-006

Petrescu, A.M.R.; Christensen, T.R.; Van Huissteden, J.

Modelling methane emissions from arctic wetlands: a comparison between two sites

12:00 END OF SESSION

BG1.02 Methane fluxes from permafrost ecosystems in relation to climate change – Posters

Convener: van Huissteden, K.

Co-Convener(s): Christensen, T.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 13:30–15:00

Poster Area Foyer BG

Chairperson: N.N.

BG0019; EGU2007-A-00699; BG1.02-1FR3P-0019

Jackowicz-Korczynski, M.; Christensen, T.R.; Crill, P.; Friborg, T.; Ström, L.

Annual balance of CH₄ fluxes from subarctic peatland on basis of micrometeorological measurements.

BG0020; EGU2007-A-02011; BG1.02-1FR3P-0020

Berrittella, C.; van Huissteden, J.; Petrescu, A.M.R.

Effects of parameter uncertainty in large scale modelling of Last Glacial methane emissions from Northern wetlands.

BG0021; EGU2007-A-05045; BG1.02-1FR3P-0021

Jackowicz-Korczynski, M.; Christensen, T.R.; Crill, P.; Friborg, T.; Ström, L.

Annual balance of CH₄ fluxes from subarctic peatland on basis of micrometeorological measurements

BG0022; EGU2007-A-05266; BG1.02-1FR3P-0022

Mastepanov, M.; Ekberg, A.; Ström, L.; Sigsgaard, C.; Tamstorf, M.; Christensen, T.R.

Growth season dynamics of methane emission from arctic tundra: a comparison of chamber measurements over ten years

BG0023; EGU2007-A-06164; BG1.02-1FR3P-0023

Saito, H.; Shirota, T.; Lopez, L.; Iwahana, G.; Maximov, T.; Shibuya, M.; Takahashi, K.

Changing precipitation regimes and photosynthetic performance of the East-Siberian taiga

BG0024; EGU2007-A-07907; BG1.02-1FR3P-0024

Waddington, J.M.; Baird, A.J.

Towards a new Conceptual Model of Climate Change Impacts on Peatland CH₄ emissions

BG0025; EGU2007-A-09707; BG1.02-1FR3P-0025

Turetsky, M.R.; Vitt, D.H.; Wieder, R.K.; Scott, K.D.

The disappearance of relict permafrost in boreal peatlands: effects on methane emissions and soil carbon storage

BG0026; EGU2007-A-11297; BG1.02-1FR3P-0026

van Huissteden, J.; Petrescu, A.M.R.; Hendriks, D.M.D

Comparison of temperature and water table sensitivity of methane emission in temperate and arctic wetlands.

BG0027; EGU2007-A-10277; BG1.02-1FR3P-0027

Wille, C.; Kutzbach, L.; Sachs, T.; Wagner, D.; Pfeiffer, E.-M.

Methane Emission from Siberian arctic polygonal Tundra: Eddy Covariance Measurements and Modeling

BG1.08 Biogeochemistry and ecohydrology of arid and semi-arid ecosystems (co-listed in HS)

Convener: Meixner, F.

Co-Convener(s): D'Odorico, P., Porporato, A., Mamtimin, B.

Lecture Room 20 (N)

Chairperson: N.N.

13:30–13:45; EGU2007-A-00875; BG1.08-1FR3O-001

Turnbull, L.; Wainwright, J.; Brazier, R.E.

Semi-arid Ecohydrology: Field-based Observations of Interactions between Vegetation, Hydrology and Biogeochemistry (solicited)

13:45–14:00; EGU2007-A-08520; BG1.08-1FR3O-002

Blank, B.; THE MAGIM TEAM

Water fluxes across scales – a case study from Inner Mongolia (solicited)

14:00–14:15; EGU2007-A-04329; BG1.08-1FR3O-003

Fay, P.A.; Hui, D.; Procter, A.; Jin, V.L.; Johnson, H.B.; Polley, H.W.; Jackson, R.B.

Photosynthetic water use efficiency and biomass of *Sorghastrum nutans* (C₄) and *Solidago canadensis* (C₃) in three soils along a CO₂ concentration gradient

14:15–14:30; EGU2007-A-01266; BG1.08-1FR3O-004

Wohlfahrt, G.; **Arnone, J.**

Large Annual Net Ecosystem CO₂ Uptake of a Mojave Desert Ecosystem

14:30–14:45; EGU2007-A-05543; BG1.08-1FR3O-005

Wohland, P.; Mantlana, B.; Veenendaal, E.; Lloyd, J

Ecosystem fluxes in a semi-arid tropical grassland in the Okavango Delta, Botswana

14:45–15:00; EGU2007-A-06469; BG1.08-1FR3O-006

Feig, G.T.; Meixner, F.X.

Disturbance and vegetation properties affect soil biogenic nitric oxide emissions from an arid Kalahari Savanna

15:00 END OF SESSION

BG1.08 Biogeochemistry and ecohydrology of arid and semi-arid ecosystems (co-listed in HS) – Posters

Convener: Meixner, F.

Co-Convener(s): D'Odorico, P., Porporato, A., Mamtimin, B.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 15:30–17:00

Poster Area Foyer BG

Chairperson: N.N.

BG0028; EGU2007-A-00329; BG1.08-1FR4P-0028

Ozdogan, M.; **Gutman, G**

Towards Global Mapping of Irrigated Agriculture (solicited)

BG0029; EGU2007-A-01050; BG1.08-1FR4P-0029

Moawad, M. B.; Mamtimin, B.

Flash floods: assessment and vulnerability analysis of small-scale drainage basins in the northern Eastern Desert of Egypt

BG0030; EGU2007-A-01650; BG1.08-1FR4P-0030

Sanden, B.; **Karlik, J.**

Micro-irrigation and contaminant uptake into almond trees in a semi-arid environment

BG0031; EGU2007-A-06038; BG1.08-1FR4P-0031

Lister, D.; Michaelides, K.; Wadham, J.; Wainwright, J.; Parsons, A

Erosion-driven nutrient dynamics in different vegetation communities in Jornada, New Mexico: implications for land degradation.

BG0032; EGU2007-A-04832; BG1.08-1FR4P-0032

Almagro, M.; Sánchez, J.; López, J.; Boix-Fayos, C.; Albaladejo, J.; Martínez-Mena, M.

Factors controlling CO₂ efflux under different land uses in a Mediterranean semi-arid area of Southeast Spain

BG0033; EGU2007-A-04794; BG1.08-1FR4P-0033

m.b. Dalenda, m.b D.; g.Mohamed, g. M.; b. Salem, b.S.; I.Nechida, I.N.; g.Ali, g.A

improvement of the efficiency of the olive tree water use in arid environment

BG0034; EGU2007-A-07324; BG1.08-1FR4P-0034

Mamtimin, B.; Meixner, F.X.

Biogenic NO production and consumption in natural and cultivated soils from a cold desert in northwest China

BG0035; EGU2007-A-00484; BG1.08-1FR4P-0035

Gelfand, I.; Feig, G.; Yakir, D.; Meixner, F

Laboratory study of the influence of land-use change on NO fluxes from semi-arid ecosystems and climatic gradient

BG0036; EGU2007-A-08550; BG1.08-1FR4P-0036

Yu, J.B.; Meixner, F.X.

Biogenic nitric oxide emission from saline sodic soil

BG6.05 Biogeochemical interactions in chemosynthetic deep-sea ecosystems: methods, tools and strategies (co-listed in OS)

Convener: Le Bris, N.

Co-Convener(s): Bach, W., German, C., Duperron, S.

Lecture Room 20 (N)

Chairperson: DUPERRON, S.

8:30–8:45; EGU2007-A-00562; BG6.05-1FR1O-001

Bennett, S.; Achterberg, E.; Fones, G.; Statham, P.; German, C

Voltammetric analysis of dissolved iron speciation in hydrothermal plumes: Evidence for organic iron complexation.

8:45–9:00; EGU2007-A-10129; BG6.05-1FR1O-002
Müller, M.; Lloyd, J.; Mills, R.; Palmer, M.; Pancost, R.
 Microbe-metal associations in hydrothermal sulfidic sediments.

9:00–9:15; EGU2007-A-09870; BG6.05-1FR1O-003
Wenzhoefer, F.; Felden, J.; Lichtschlag, A.; deBeer, D.; Boetius, A.
 Spatial variability of physico-chemical gradients and biogeochemical processes at hydrothermal vents and cold seeps and their effects on community structures (solicited)

9:15–9:30; EGU2007-A-03840; BG6.05-1FR1O-004
Halary, S.; Riou, V.; Frébourg, G.; Boudier, T.; Gaill, F.; Duperron, S.
 Investigating symbiont densities and localization in hydrothermal vent and cold seep mytilids using fluorescence hybridization techniques and image analysis

9:30–9:45; EGU2007-A-02399; BG6.05-1FR1O-005
Paillet, M.; Haga, T.; Petit, P.; Privé-Gill, C.; Saedlou, N.; Gaill, F.; Zbinden, M.
 Sunken woods from the Vanuatu Islands: identification of wood substrates and preliminary description of associated fauna

9:45–10:00; EGU2007-A-11302; BG6.05-1FR1O-006
Sarradin, P.-M.; EXOCET-D Team
 EXtreme ecosystem studies in the deep OCEan : Technological Developments (solicited)

10:00 END OF SESSION

BG6.05 Biogeochemical interactions in chemosynthetic deep-sea ecosystems: methods, tools and strategies (co-listed in OS) – Posters

Convener: Le Bris, N.
 Co-Convener(s): Bach, W., German, C., Duperron, S.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00
 Poster Area Foyer BG
 Chairperson: LE BRIS, N.

BG0037; EGU2007-A-04445; BG6.05-1FR2P-0037
Riou, V.; Halary, S.; Martins, I.; Korntheuer, M.; Duperron, S.; Colaço, A.; Bouillon, S.; Santos, R.S.; Dehairs, F.; LabHorta team
 Nutrition study of Bathymodiolus azoricus from Menez Gwen: development of stable isotope enrichment techniques to follow the assimilation pathways by symbiosis versus filter-feeding.

BG0038; EGU2007-A-06895; BG6.05-1FR2P-0038
Libertinova, J.; Clarke, L. J.; Kennedy, H.; Dando, P. R.; Richardson, C. A.
 Geochemical proxies in vent mussel shells as indicators of environmental conditions at hydrothermal vents

BG0039; EGU2007-A-02402; BG6.05-1FR2P-0039
Duperron, S.; Halary, S.; Gros, O.; Gaill, F.
 Are diversity and evolution of bacterial symbioses driven by environmental constraints in deep-sea mytilids ?

BG0040; EGU2007-A-11526; BG6.05-1FR2P-0040
Duperron, S.; Laurent, M.C.Z.; Garouste, R.; Gaill, F.; Gros, O.
 Sulfide-oxidizing bacterial ectosymbiosis in the gills of Mytilidae associated with wood falls

BG0041; EGU2007-A-11524; BG6.05-1FR2P-0041
Laurent, M.C.; Maurin, L.; Le Bris, N.; Gaill, F.; **Gros, O.**
 Preliminary results about the colonization of sunken woods in shallow water in the Caribbean area: Influence of the environment

BG0042; EGU2007-A-08064; BG6.05-1FR2P-0042
Palacios, C.; Zbinden, M.; Gaill, F.; Lebaron, P.
 Microbial diversity of sunken woods provides insights into ocean chemosynthetic communities dispersion

BG0043; EGU2007-A-11310; BG6.05-1FR2P-0043
Lacombe, M.; Brulport, J.-P.; Garçon, V.; Comtat, M.; Le Bris, N.
 Sulfide in situ measurements in deep-sea environments: actual and future tools

BG0044; EGU2007-A-11333; BG6.05-1FR2P-0044
Le Bris, N.; Pradillon, F.; Zbinden, M.; Charlou, J.-L.; Gaill, F.
 Life in Extreme Environments: chemical stresses and biogeochemical benefits for pioneer animals on smoker walls

BG0045; EGU2007-A-11421; BG6.05-1FR2P-0045
Matabos, M.; Le Bris, N.; Pendlebury, S.; Thiébaud, E.
 Role of physico-chemical environment on gastropods community at hydrothermal vents on the East Pacific Rise (13°N/EPR)

BG0046; EGU2007-A-11406; BG6.05-1FR2P-0046
Lallier, F.; **Le Bris, N.;** Gaill, F.; THE MESCAL scientific Party
 The MESCAL project: strategies of colonization and adaptation to extreme deep-sea hydrothermal environments

BG0047; EGU2007-A-04440; BG6.05-1FR2P-0047
Schmidt, C.; Gaill, F.; Vuillemin, R.; Le Gall, C.; Le Bris, N.
 Geochemical energy sources for microbial primary production in the environment of hydrothermal vent shrimps

BG0048; EGU2007-A-11303; BG6.05-1FR2P-0048
Sarrazin, J.; THE TEMPO TEAM
 TEMPO: a new ecological module for studying deep-sea community dynamics at hydrothermal vents

BG0049; EGU2007-A-06213; BG6.05-1FR2P-0049
Vuillemin, R.; Le Roux, D.; Dorval, P.; Hamon, M.; Sudreau, J.P.; Le Gall, C.; Sarradin, P.M.
 CHEMINI: CHEMical MINiaturised analyser, a new generation of chemical analysers for marine applications

BG0050; EGU2007-A-11338; BG6.05-1FR2P-0050
Birot, D.; Leilde, B.; Guillemot-Le Noac'h, A.; Marec, C.; Fichen, L.; Mercier, E.; Donval, J.-P.; Vuillemin, R.; Knor, J.
 L'INDIC : a high sensitive in situ metal determination device for detection of fluid venting at hydrothermal sites and cold seeps

BG0051; EGU2007-A-04271; BG6.05-1FR2P-0051
BOULART, C.; MOWLEM, M.; CONNELLY, D.P.; DUTASTA, J.P.
 Development of a new in-situ methane sensor for deep-sea studies

BG7.01/PS7.3/PS1.1 Astrobiology, Mars and robotic exploration (co-organized by PS)

Convener: Westall, F.
 Co-Convener(s): Vago, J., Muller, C., Toporski, J.
 Lecture Room 19
 Chairperson: WESTALL, F.

13:00–13:15; EGU2007-A-05659; BG7.01/PS7.3/PS1.1-1FR3O-99
Lindsay, J.; Clemett, S.
 Biogenesis on Earth and the search for life on Mars

13:15–13:30; EGU2007-A-11355; BG7.01/PS7.3/PS1.1-1FR3O-000

Steele, A.; Fries, M.D.; Amundsen, H.E.F; Mysen, B.O.; Fogel, M.L.; Schweizer, M.; Boctor, N.Z.
Comprehensive Imaging and Raman spectroscopy of Carbonate Globules from Martian Meteorite ALH 84001 and a Terrestrial Analogue from Svalbard

13:30–13:45; EGU2007-A-00593; BG7.01/PS7.3/PS1.1-1FR3O-001

Dartnell, L. R.; Desorgher, L.; Ward, J. M.; Coates, A. J.
Modelling the surface and subsurface Martian radiation environment: Implications for Astrobiology

13:45–14:00; EGU2007-A-00878; BG7.01/PS7.3/PS1.1-1FR3O-002

Orange, F.; Westall, F.; Disnar, J.-R.; Prieur, D.; Dégarge, Ch.

Experimental silicification of the extremophilic Archaea *Methanococcus jannaschii* and *Pyrococcus abyssi*. Applications in the search for evidence of life in early Earth and extraterrestrial rocks.

14:00–14:15; EGU2007-A-05756; BG7.01/PS7.3/PS1.1-1FR3O-003

Hilchenbach, M.

Estimates of minimum levels of organic molecules on Mars

14:15–14:30; EGU2007-A-00967; BG7.01/PS7.3/PS1.1-1FR3O-004

Peeters, Z.; Vos, D.; ten Kate, I.L.; Garry, J.R.C.; van Sluis, C.A.; Stan-Lotter, H.; Ehrenfreund, P.
Martian regolith simulation: testing the properties of organic molecules and microorganism in martian soil analogues

14:30–14:45; EGU2007-A-11399; BG7.01/PS7.3/PS1.1-1FR3O-005

Vago, J. L.; Kminek, G.; Baglioni, P.; Gardini, B.; McCoy, D.; Gianfiglio, G.; Coradini, M.
Science definition progress of ESA's ExoMars mission

14:45–15:00; EGU2007-A-11137; BG7.01/PS7.3/PS1.1-1FR3O-006

Kminek, G.

Protecting the scientific integrity of Mars

15:00–15:15; EGU2007-A-10715; BG7.01/PS7.3/PS1.1-1FR3O-007

Bibring, J.-P.; Berthe, M.; and the MicrOmega, team

MicrOmega: a NIR hyperspectral microscope for in situ compositional analyses on board ESA/ExoMars.

15:15 COFFEE BREAK

Chairperson: VAGO, J.

15:30–15:45; EGU2007-A-06259; BG7.01/PS7.3/PS1.1-1FR4O-001

Coradini, A.; De Sanctis, M.C.; Ercoli Finzi, A.; Battistelli, E.; Re, E.; Magnani, P.G.
DIBS Ma_MISS experiment

15:45–16:00; EGU2007-A-10438; BG7.01/PS7.3/PS1.1-1FR4O-002

Dehant, V.; Folkner, W.; Le Maistre, S.; Orban, D.; The LaRa Team
ExoMars/GEP Lander Radioscience LaRa

16:00–16:15; EGU2007-A-01202; BG7.01/PS7.3/PS1.1-1FR4O-003

Depiesse, C.; Muller, C.; Moreau, D.; Mateshvili, N.; Fussen, D.; Gillotay, D.

Climatology of surface UV after one Martian year of Mars-Express observations from the point of view of Martian surface life.

16:15–16:30; EGU2007-A-02323; BG7.01/PS7.3/PS1.1-1FR4O-004

Buch, A.; Sternberg, R.; Freissinet, C.; Szopa, C.; Mettetal, F.; Rodier, C.; Coll, P.; Cabane, M.; Raulin, F.; Glavin, D.; SAM TEAM

Development of a “one-pot/one-step” sample preparation procedure for the in situ analysis by GC/MS of the Martian soil: application to the Sample Analysis at Mars experiment (SAM for MSL 2009)

16:30–16:45; EGU2007-A-11112; BG7.01/PS7.3/PS1.1-1FR4O-005

Ahlers, B.; Bazalgette Courrèges-Lacoste, G.; Rull Pérez, F.
The Raman LIBS instrument on ExoMars

16:45–17:00; EGU2007-A-04362; BG7.01/PS7.3/PS1.1-1FR4O-006

Bada, J.; UREY Team

Urey: Mars Organic and Oxidant Detector

17:00–17:15; EGU2007-A-10040; BG7.01/PS7.3/PS1.1-1FR4O-007

Becker, L.; MOMA Team

MOMA-LDMS: Instrument Concept and Results

17:15 END OF SESSION

BG7.01/PS7.3/PS1.1 Astrobiology, Mars and robotic exploration (co-organized by PS) – Posters

Convener: Westall, F.

Co-Convener(s): Vago, J., Muller, C., Toporski, J.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 10:30–12:00

Poster Area Foyer BG

Chairperson: MULLER, C.

BG0052; EGU2007-A-00844; BG7.01/PS7.3/PS1.1-1FR2P-0052

Houtkooper, J.M.; Schulze-Makuch, D.

Microorganisms employing hydrogen peroxide: a possible reinterpretation of the Viking results

BG0053; EGU2007-A-02104; BG7.01/PS7.3/PS1.1-1FR2P-0053

Wilcox, J.; Urgiles, E.; Toda, R.; Crisp, J

Surface elemental analysis with 1 mm spatial resolution for samples in ambient atmosphere using the AEXS instrument

BG0054; EGU2007-A-02931; BG7.01/PS7.3/PS1.1-1FR2P-0054

Bérces, A.; Kovács, G.; Fekete, A.; Lammer, H.; Rontó, G.
The effect of the short wavelength ultraviolet radiation and its implication for the origin of life

BG0055; EGU2007-A-03530; BG7.01/PS7.3/PS1.1-1FR2P-0055

Sternberg, R.; Zampolli, M.; Basaglia, G.; Szopa, C.; Pietrogrande, M.C.; Freissinet, C.; Buch, A.; Raulin, F.; Dondi, F.

Chirality and the origin of life: in-situ enantiomeric separation

BG0056; EGU2007-A-03653; BG7.01/PS7.3/PS1.1-1FR2P-0056

Igisu, M.; Yokoyama, T.; Nakashima, S.; Ueno, Y.; Shimajima, M.; Ohta, H.; Maruyama, S

Preservation of organic functional groups in cyanobacteria during diagenesis as studied by in situ infrared heating experiments

BG0057; EGU2007-A-03831; BG7.01/PS7.3/PS1.1-1FR2P-0057

Pavlov, A. K.; Shelegedin, V. N.; Vdovina, M. A.; Tretyakov, A. V.

Growth of Microorganisms at Martian Subsurface Conditions: Laboratory Modeling

BG0058; EGU2007-A-03864; BG7.01/PS7.3/PS1.1-1FR2P-0058

D'Elia, M.; Blanco, A.; Licchelli, D.; Orofino, V.; Fonti, S.; Burns, B.P.; Pomati, F.

Earth biominerals for exobiology

BG0059; EGU2007-A-05966; BG7.01/PS7.3/PS1.1-1FR2P-0059

Weiss, P.; Yung, K.L.; **Ng, T.C.;** Leung, W.; Choi, S.

Integrated Sampler Downhole Hammering Drill Head (ISDHH) for soft and hard soil sampling

BG0060; EGU2007-A-08512; BG7.01/PS7.3/PS1.1-1FR2P-0060

Thiele, H.; Hofer, S.; Glier, M.; Tarcea, N.; Frosch, T.; Schmitt, M.; Hochleitner, R.; Langenhorst, F.; Riesen-berg, R.; Popp, J.; MIRAS II Team

UV Raman Spectroscopy for in-situ planetary applications: MIRAS II performance and results

BG0061; EGU2007-A-11394; BG7.01/PS7.3/PS1.1-1FR2P-0061

Fries, M.D.; Steele, A.

Techniques in Raman Imaging Analysis of Extraterrestrial Materials

BG0062; EGU2007-A-11357; BG7.01/PS7.3/PS1.1-1FR2P-0062

Steele, A.; Amundsen, H.E.F

AN Overview of the Arctic Mars Analogue Svalbard Expedition 2007

BG0063; EGU2007-A-11358; BG7.01/PS7.3/PS1.1-1FR2P-0063

Steele, A.; Fries, M.D.; Green, O.R.; Schweizer, M.; Lindsay, J.F.

Raman Imaging Spectroscopy of a purported 3.5 billion year old microfossil

BG0064; EGU2007-A-01794; BG7.01/PS7.3/PS1.1-1FR2P-0064

Paepe, R.

The Red Soil on Mars as a proof for water and vegetation.

BG0065; EGU2007-A-01984; BG7.01/PS7.3/PS1.1-1FR2P-0065

Poulet, F.; Bibring, J.-P.; Mangold, N.; Loizeau, D.; Langevin, Y.; Gondet, B.; Mustard, J.

Phyllosilicate-rich terrains on Mars identified by OMEGA/MEx: potential landing sites for astrobiology

BG0066; EGU2007-A-04961; BG7.01/PS7.3/PS1.1-1FR2P-0066

Griffiths, A.; Coates, A.; Jaumann, R.; Josset, J.; Michaelis, H.; Paar, G.; Barnes, D.; Muller, J.

The Panoramic Camera (PanCam) instrument for the ESA ExoMars rover

BG0067; EGU2007-A-05953; BG7.01/PS7.3/PS1.1-1FR2P-0067

Goesmann, F.; Raulin, F.; Becker, L.; Ehrenfreund, P.; Hilchenbach, M.

MOMA, the Martian Organic Molecule Analyser; current Developments and Capabilities of a combined GC/MS and LD-MS Instrument

BG0068; EGU2007-A-06225; BG7.01/PS7.3/PS1.1-1FR2P-0068

Fendrihan, S.; Stan-Lotter, H.

Life-detection simulation and viability assessment studies with haloarchaea as possible models of recognition of past or present life on Mars

BG0069; EGU2007-A-06529; BG7.01/PS7.3/PS1.1-1FR2P-0069

Cabane, M.; Coll, P.; **Szopa, C.;** Stalport, F.; Mahaffy, P.; the SAM-GC team

Search for indices of prebiotic or biotic activity on Mars with the Sample Analysis at Mars experiment of the MSL mission

BG0070; EGU2007-A-08286; BG7.01/PS7.3/PS1.1-1FR2P-0070

Ciarletti, V.; Dechambre, M.; Corbel, Ch.; Dolon, F.; The WISDOM team

The performances of the WISDOM Radar on the ExoMars rover

BG0071; EGU2007-A-09042; BG7.01/PS7.3/PS1.1-1FR2P-0071

Martin, P.

Investigation and classification of possible Martian landing sites for the upcoming European exploration programme

BG0072; EGU2007-A-09782; BG7.01/PS7.3/PS1.1-1FR2P-0072

Onofri, S.; Barreca, D.; Rabbow, E.; de Vera, J.-P.; Selbmann, L.; Zucconi, L.

Antarctic rock fungi in space and Mars simulated conditions

BG0073; EGU2007-A-10644; BG7.01/PS7.3/PS1.1-1FR2P-0073

Wallis, M. K.; Wickramasinghe, J. T.

Role of impacts in facilitating elementary life on Mars

Climate: Past, Present, Future

CL4 Assessment of climate events in lake sediments

Convener: Fagel, N.

Co-Convener(s): Loutre, M.

Lecture Room 14

Chairperson: N.N.

10:30–10:45; EGU2007-A-03650; CL4-1FR2O-001

Détriché, S.; Bréhéret, J.G.; Zarki, H.; Karrat, L.; Macaire, J.J.; Fontugne, M.

A 2000-year lacustrine record of environmental change in the Middle-Atlas: the Lake Afourgagh (Morocco)

10:45–11:00; EGU2007-A-08873; CL4-1FR2O-002

Cremaschi, M.; **Zerboni, A.**

Holocene lacustrine sedimentation in the Edeyen of Murzuq (SW Libya)

11:00–11:15; EGU2007-A-09500; CL4-1FR2O-003

Kwiecien, O.; Arz, H. W.; Lamy, F.; Plessen, B.; Dulski, P.; Haug, G. H.

Glacial changes in atmospheric circulation pattern over the Mediterranean documented by a Black Sea precipitation record

11:15–11:30; EGU2007-A-04774; CL4-1FR2O-004

YANG, T.-N.; WEI, K.-Y.; LEE, T.-Q.; CHEN, H.-F.; SONG, S.-R.; CHIANG, H.-W.; CHEN, Y.-G.; CHEN, M.-T.

Precipitation variability in subtropical southern Taiwan during the last 21,000 years

11:30–11:45; EGU2007-A-06968; CL4-1FR2O-005

Escala, M.; Oberhänsli, H.; **Rosell-Melé, A.**

Surface water temperature (TEX86) record from Lake Baikal for the last climatic cycle

11:45–12:00; EGU2007-A-06679; CL4-1FR2O-006

Valero-Garces, B.; Gonzalez-Samperiz, P.; Morellon, M.; Rico, M.; Moreno, A.; Navas, A.; Machin, J.; Mata, P.; Rubio, J.C.

The Villarquemado Lacustrine Record (Iberian Range, Spain, Teruel): Climate and Tectonics for the last 100 kyr in NE Spain

12:00 END OF SESSION

CL4 Assessment of climate events in lake sediments – Posters

Convener: Fagel, N.

Co-Convener(s): Loutre, M.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0128; EGU2007-A-00205; CL4-1FR3P-0128

Haberzettl, T.; **Anselmetti, F.**; Fey, M.; Ohlendorf, C.; Lücke, A.; Mayr, C.; Schäbitz, F.; Wille, M.; Wulf, S.; Zolitschka, B.

Tracking climate events during the past 16 ka in southern South America – the high-resolution multi-proxy record of Laguna Potrok Aike (52°S)

XY0129; EGU2007-A-10387; CL4-1FR3P-0129

Bakke, J.; Lie, Ø.; Heegaard, E.; Dokken, T.; Haug, G.; Dulski, P.; Nesje, A.; Dahl, S.; Birks, H.; Nilsen, T.

Titanium concentration in lake sediments as a measure for Younger Dryas cirque glacier activity, Western Norway

XY0130; EGU2007-A-02639; CL4-1FR3P-0130

Martín-Puertas, C.; Valero-Garcés, B.L.; Mata, M.P.; Moreno, A.

Geochemical data (XRF) of recent lacustrine sediments of Zozñar lake (Southern Spain)

XY0131; EGU2007-A-01624; CL4-1FR3P-0131

Bertrand, S.; Charlier, B.; Fagel, N.

Inorganic geochemical analysis of Lago Puyehue sediments (Chile, 40°S): Reconstruction of the Late Quaternary paleoclimate variability and influence of the volcanic activity on paleoclimate proxies

XY0132; EGU2007-A-11395; CL4-1FR3P-0132

De Batist, M.; De Batist M. and the ENSO-CHILE project team

An 18,000-year multiproxy lacustrine record of climate variability in south-central Chile (40°S): Lago Puyehue, Chilean Lake District

XY0133; EGU2007-A-11242; CL4-1FR3P-0133

Loutre, M.F.; Boës, X.; Fagel, N.; De Batist, M.

Climate control of varve thickness in Chilean lacustrine sediments during the deglaciation

XY0134; EGU2007-A-09025; CL4-1FR3P-0134

Enters, D.; Giguët-Covex, C.; Arnaud, F.; Chapron, E.

Climatically controlled sediment deposition patterns in a high alpine lake (Lake Anterne, French Alps)

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 15:30–17:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0135; EGU2007-A-09509; CL4-1FR4P-0135

Court-Picon, M.; Peyron, O.; de Beaulieu, J.-L.; Bossuet, G. Late-Glacial vegetation and climate changes in mountain areas as inferred from pollen data : the high-resolution record of the Lauza peat bog (Champsaur, southern French Alps).

XY0136; EGU2007-A-00969; CL4-1FR4P-0136

Abu Ghazleh, S.; Kempe, S.; Jansen, N.

The terraces of Lake Lisan: a continuous record of the climatic changes during the Late Pleistocene

XY0137; EGU2007-A-05170; CL4-1FR4P-0137

Boes, X.; Ulas, A.; King, J.; Cagatay, N.; Hubert Ferrari, A. Assessment of Lake Sediment Sensitivity to Earthquakes and Climate Cycles along the North Anatolian Fault

XY0138; EGU2007-A-11409; CL4-1FR4P-0138

Avsar, U.; Boes, X.; Hubert-Ferrari, A.; Fagel, N.

Potential of Shallow Lake Systems to Trace Environmental Changes Caused by Earthquakes

XY0139; EGU2007-A-09312; CL4-1FR4P-0139

Novotna, K.; Oberhänsli, H.; Chabrillat, S.; Blahova, A.; **Grygar, T.**

Reading seven-century Aral record by spectral and chemical means

XY0140; EGU2007-A-00869; CL4-1FR4P-0140

Mangili, C.; Brauer, A.; Dulski, P.; Moscariello, A.; Plessen, B.

Multi-proxy study of an intra-interglacial cool interval of the Pliocene Interglacial with special emphasis on μ -XRF data

CL12/CL41 Mediterranean Climate Variability / Black Sea-Mediterranean Corridor during last 30 ky: Sea level change and human adaptation

Convener: Malanotte-Rizzoli, P.

Co-Convener(s): Lionello, P.; Tsimplis, M.; Luterbacher, J., Yılmaz, Y., Algan, O., Lericolais, G.

Lecture Room 25

Chairperson: LIONELLO P.

8:30–8:45; EGU2007-A-00903; CL12/CL41-1FR1O-001

LERICOLAIS, G.; MINEREAU, A.; GUICHARD, F.; MORIGI, C.; PANIN, N.

A LGM and a PreBoreal Danube paleo-Deltas evidenced on the Romanian Black Sea shelf

8:45–9:00; EGU2007-A-00020; CL12/CL41-1FR1O-002

Dimitrov, D.; Dimitrov, P.

Geocatastrophic sediments (sapropels) - most important evidence for the FLOOD

9:00–9:15; EGU2007-A-00748; CL12/CL41-1FR1O-003

Algan, O.; Ergin, M.; Ongan, D.; Kapan-Yesilyur, S.; Nazik, A.; Keskin, S.; Alpar, B.; Eastoe, C.

Sedimentation on the SW Shelf of the Black Sea during the Late Pleistocene Holocene

9:15–9:30; EGU2007-A-00852; CL12/CL41-1FR1O-004

Okay, S.; Lericolais, G.; Cifci, G.

Geophysical Investigations at Bosphorus Outlet in Black Sea

9:30–9:45; EGU2007-A-08370; CL12/CL41-1FR1O-005

Gualdi, S.; Scoccimarro, E.; Navarra, A.

Climate change in the Euro-Mediterranean region: results from a set of high-resolution CGCM scenario simulations

9:45–10:00; EGU2007-A-07081; CL12/CL41-1FR1O-006

Li, L.

An evaluation of the interactive role of the Mediterranean Sea for short-term climate variability of the nearby regions

10:00–10:15; EGU2007-A-06150; CL12/CL41-1FR1O-007
Krichak, S.O.; Alpert, P.; Bassat, K.; Kunin, P.
 Assessment of expected climate change over the Eastern Mediterranean region in three simulation experiments with RegCM model

10:15 COFFEE BREAK

Chairperson: TSIMPLIS M.

10:30–11:00; EGU2007-A-06256; CL12/CL41-1FR2O-001
Doblas-Reyes, F. J.; Palmer, T. N.; Weisheimer, A.
 Seamless climate prediction for the Mediterranean area (solicited)

11:00–11:15; EGU2007-A-09637; CL12/CL41-1FR2O-002
Fenoglio-Marc, L.; Mangiarotti, S.; Tsimplis, M.; Vignudelli, S.
 The steric contribution to sea level change in the Mediterranean Sea

11:15–11:30; EGU2007-A-01918; CL12/CL41-1FR2O-003
Gomis, D.; Ruiz, S.; Sotillo, M. G.; Álvarez-Fanjul, E.; Terradas, J.
 Low frequency Mediterranean sea level variability. The contribution of atmospheric pressure and wind.

11:30–11:45; EGU2007-A-02189; CL12/CL41-1FR2O-004
 Brunetti, M.; Lentini, G.; Maugeri, M.; Nanni, T.; Auer, I.; Boehm, R.; Schoener, W.
 Climate variability and change in the Greater Alpine Region over the last two centuries based on multiple variable analysis

11:45–12:00; EGU2007-A-05185; CL12/CL41-1FR2O-005
 Osetinsky, I.; **Alpert, P.**
 Calendaricities and multimodality in the Eastern Mediterranean cyclonic activity

12:00 LUNCH BREAK

Chairperson: LUTERBACHER J.

13:30–13:45; EGU2007-A-09621; CL12/CL41-1FR3O-001
Bordon, A.; Peyron, O.; Lézine, A.-M.
 Vegetation history and quantitative climate estimates in Balkan peninsula from Maliq and Ohrid pollen sequences (Albania): the last climatic cycle, the lateglacial and the Holocene

13:45–14:00; EGU2007-A-08106; CL12/CL41-1FR3O-002
Boulay, S.; Liu, Z.; Wang, P.
 On the Pliocene terrigenous supply and the long-eccentricity cycle in the carbon record in the Mediterranean Sea

14:00–14:15; EGU2007-A-03675; CL12/CL41-1FR3O-003
Baldi, M.; Gaetani, M.; Dalu, G.A.
 Links between West African monsoon variability and summer anomalies in the western Mediterranean

14:15–14:30; EGU2007-A-03966; CL12/CL41-1FR3O-004
Drobinski, P.; Ducrocq, V.; the HyMeX Editorial committee
 Hydrological cycle in the Mediterranean experiment (HyMeX): Towards a major field experiment between 2009 and 2012

14:30–15:00; EGU2007-A-05730; CL12/CL41-1FR3O-005
Dulac, F.
 The Mediterranean aerosol and its climate interactions, and the AerMeX initiative (solicited)

15:00 END OF SESSION

CL12/CL41 Mediterranean Climate Variability / Black Sea-Mediterranean Corridor during last 30 ky: Sea level change and human adaptation – Posters

Convener: Malanotte-Rizzoli, P.
 Co-Convener(s): Lionello, P., Tsimplis, M., Luterbacher, J., Yılmaz, Y., Algan, O., Lericolais, G.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 15:30–17:00
 Poster Area Halls X/Y
 Chairperson: LIONELLO P.

XY0141; EGU2007-A-01315; CL12/CL41-1FR4P-0141
Rodrigo, F.S.

Influence of the North Atlantic Oscillation on winter daily rainfall parameters in the Iberian Peninsula

XY0142; EGU2007-A-04034; CL12/CL41-1FR4P-0142
Salameh, T.; Drobinski, P.

Statistical downscaling of wind probability distributions over the western Mediterranean basin

XY0143; EGU2007-A-04592; CL12/CL41-1FR4P-0143
Bartholy, J.; Pongracz, R.; Pattantyus-Abraham, M.

Analysis of cyclone track characteristics forming in the Western/Central Mediterranean region

XY0144; EGU2007-A-04675; CL12/CL41-1FR4P-0144
Kabidi, K.; Baddour, O.

Short and Long term climate variability in Northern Morocco (cancelled)

XY0145; EGU2007-A-06267; CL12/CL41-1FR4P-0145
Ionita, M.; Rimbu, N.

The influence of the winter blocking on the variability of Romanian temperature and precipitation

XY0146; EGU2007-A-06452; CL12/CL41-1FR4P-0146
Orasi, A.; Inghilesi, R.; Morucci, S.

Current limits of a wave climatology in the Mediterranean sea

XY0147; EGU2007-A-07097; CL12/CL41-1FR4P-0147
 Buttafuoco, G.; Caloiero, T.; Coscarelli, R.; Ferrari, E.; Mancini, M.

Trend analysis of historical rainfall data and correlation with global scale climatic indicators: a case study in Southern Italy (Calabria).

XY0148; EGU2007-A-07772; CL12/CL41-1FR4P-0148
 Unal, Y.; Onol, B.

Defining the climate zones of Turkey for recent three decades by cluster analysis

XY0149; EGU2007-A-07214; CL12/CL41-1FR4P-0149
Sensoy, S.

Trends in Turkey climate indices from 1971 to 2004 and future projection

XY0150; EGU2007-A-07299; CL12/CL41-1FR4P-0150
Srnec, L.; Brankovic, C.

Remote impact of the equatorial Pacific SST anomalies on the Mediterranean region

XY0151; EGU2007-A-11157; CL12/CL41-1FR4P-0151
Katsoulis, V.D.; Pnevmatikos, G.; Matzarakis, A.

Potential predictability of rainfall in the greek region

XY0152; EGU2007-A-02277; CL12/CL41-1FR4P-0152
Seubert, S.; Jacobeit, J.

Tropical influences on Mediterranean precipitation variability

XY0153; EGU2007-A-02219; CL12/CL41-1FR4P-0153
de Luis, M.; González-Hidalgo, J.C.; López-Bustins, J.A.; Martín-Vide, J.; Brunetti, M.; Nanni, T.; Stepanek, P.
 Spatial overlapping areas of four teleconnection indices in Mediterranean façade of Spain.

- XY0154;** EGU2007-A-02667; CL12/CL41-1FR4P-0154
Bozkurt, D.; Sen, O.L.
Sensitivity of Turkish precipitation to sea surface temperature variability in the surrounding seas
- XY0155;** EGU2007-A-03081; CL12/CL41-1FR4P-0155
Ribera, P.; Gallego, D.; Peña, C.
Identification of major sources of moisture and precipitation over Southern Spain
- XY0156;** EGU2007-A-03302; CL12/CL41-1FR4P-0156
Sanchez-Lorenzo, A.; Brunetti, M.; Martin-Vide, J.; **Calbó, J.;** Nanni, T.
SUNDUIB: homogenised sunshine duration dataset in the Iberian Peninsula. Temporal variability and trends during the last decades
- XY0157;** EGU2007-A-03527; CL12/CL41-1FR4P-0157
Martinez, M.D.; Lana, X.; Serra, C.; Burgueño, A.
Trends in daily minimum and maximum temperatures in Catalonia (NE Spain) along the 1950-2004 period
- XY0158;** EGU2007-A-01256; CL12/CL41-1FR4P-0158
Rodrigo, F.S.
Changes of extreme precipitation in the Iberian Peninsula from 1951 to 2002
- XY0159;** EGU2007-A-04053; CL12/CL41-1FR4P-0159
Salameh, T.; Drobinski, P.; Menut, L.; Bessagnet, B.; Flamant, C.; Hodzic, A.; Vautard, R.
Aerosol distribution over the western Mediterranean basin during a Tramontane/Mistral event
- XY0160;** EGU2007-A-04160; CL12/CL41-1FR4P-0160
Tsimplis, M. N.; Woodworth, P.L.; Perez, B.; Rosen, D.; Wopplemann, G.; Vilibic, I.; Lilja Bye, B.
Climate related sea level data availability in the Mediterranean Sea
- XY0161;** EGU2007-A-02215; CL12/CL41-1FR4P-0161
Marcos, M.; Tsimplis, M.N.
Variations of the seasonal sea level cycle in Southern Europe
- XY0162;** EGU2007-A-02218; CL12/CL41-1FR4P-0162
Marcos, M.; Tsimplis, M.N.
Scenarios for Future sea level change in the Mediterranean Sea
- XY0163;** EGU2007-A-06510; CL12/CL41-1FR4P-0163
Preisinger, A.; Filipova-Marinova, M.; Aslanian, S.
Climate and sea level changes of the Black Sea during the Holocene
- XY0164;** EGU2007-A-00660; CL12/CL41-1FR4P-0164
Lemeshko, N.; Borzenkova, I.; Gronskaya, T.
Sea level change under the global warming (the basins of the Black Sea and the Caspian Sea as a case study)
- XY0165;** EGU2007-A-02423; CL12/CL41-1FR4P-0165
Gomis, D.; THE VANIMEDAT TEAM
The VANIMEDAT project: decadal and interdecadal sea-level variability in the Mediterranean Sea and the Northeastern sector of the Atlantic Ocean.
- XY0166;** EGU2007-A-00007; CL12/CL41-1FR4P-0166
Filipova-Marinova, M.
Vegetation and hydrological changes of the Shabla-Ezeretz lake system (northern Bulgarian Black Sea coast)
- XY0167;** EGU2007-A-05227; CL12/CL41-1FR4P-0167
Gonzalez-Mora, B.; **Sierro, F.J.;** Flores, J.A.
Paleotemperature Estimates for the Alboran Sea based on Globigerina bulloides and Globigerinoides ruber Mg/Ca
- XY0168;** EGU2007-A-07575; CL12/CL41-1FR4P-0168
Combourieu Nebout, N.; Bordon, A.; Peyron, O.; Kageyama, M.; Cazet, J.-P.
Mediterranean climate during the short-time events of the last Deglaciation and the Holocene: seasonality and gradient according to vegetation changes
- XY0169;** EGU2007-A-10719; CL12/CL41-1FR4P-0169
Capraro, L.; Sprovieri, M.; Consolaro, C.; Massari, F.; Rio, D.; Sprovieri, R.
Mediterranean climate evolution during MIS 11: evidence from an integrated and high-resolution marine record
- XY0170;** EGU2007-A-07634; CL12/CL41-1FR4P-0170
CANER, H.; **AKKEMIK, U.;** **RAUH, N.K.;** **WAND-SNIDER, L.**
Human impact on vegetation: Previously results of dendrochronology and pollen analysis from the western Rough Clidia (East Mediterranean-Turkey)
- XY0171;** EGU2007-A-02661; CL12/CL41-1FR4P-0171
Martín-Puertas, C.; Brauer, A.; Valero-Garcés, B.L.; Mata, M.P.
Depositional processes and paleoenvironmental reconstruction of the laminated intervals from Zoñar lake (South of Spain) during the last 4000 years B.P.
- XY0172;** EGU2007-A-07730; CL12/CL41-1FR4P-0172
Lionello, P.; Giorgi, F.
Future changes of precipitation and cyclone activity in the Mediterranean region inferred from a regional climate simulation
- XY0173;** EGU2007-A-08084; CL12/CL41-1FR4P-0173
Lionello, P.; De Zolt, S.; Elvini, E
Future changes of storm surge climate in the Northern Adriatic Sea
- XY0174;** EGU2007-A-01352; CL12/CL41-1FR4P-0174
Gao, X.J.; Giorgi, F.; Xu, Y.; Pal, J.S.
Increased aridity in the Mediterranean region under greenhouse gas forcing from high resolution regional climate model projections
- XY0175;** EGU2007-A-09297; CL12/CL41-1FR4P-0175
Tselioudis, G.; Zerefos, C.; Zanis, P.; Repapis, C.; Signoret, E
Mediterranean Precipitation Changes in IPCC Model Simulations: Relative Role of Dynamic and Thermodynamic Processes
- XY0176;** EGU2007-A-05074; CL12/CL41-1FR4P-0176
Boscolo, R.; The ESF MedCLIVAR Steering Committee
Mediterranean Climate Variability and Predictability (Med-CLIVAR): an ESF Networking Programme
- XY0177;** EGU2007-A-00068; CL12/CL41-1FR4P-0177
Peev, P.
Ancient Landscapes In the Gulf of Varna during the Antiquity
- XY0178;** EGU2007-A-00664; CL12/CL41-1FR4P-0178
Yılmaz, Y.
Slow and rapid morphotectonic changes and associated hazards as exemplified from Anatolia
- XY0179;** EGU2007-A-05011; CL12/CL41-1FR4P-0179
Nicolae, N.
Romanian Black Sea region from Paleolithic to the beginning of the Bronze Age. Mineral resources and goods exchange. (cancelled)
- XY0180;** EGU2007-A-00915; CL12/CL41-1FR4P-0180
Koral, H.
Field characteristics of active tectonics in NW Turkey: The 1999 earthquake sequence of the Marmara region (cancelled)

XY0181; EGU2007-A-01189; CL12/CL41-1FR4P-0181
Khoshnavan, H

Caspian sea Quaternary gastropoda evolution and water way corridor reconstruction with around basins

XY0182; EGU2007-A-07664; CL12/CL41-1FR4P-0182

Hughes, J.K.; Valdes, P.J.; Mithen, S.J.; Sellwood, B.; Haywood, A.; Smith, S.

A framework for combining human migration and environmental reconstructions.

CL15 Physical and Biogeochemical feedbacks in the Climate System (co-listed in BG)

Convener: Jones, C.

Co-Convener(s): Alexeev, V.

Lecture Room 14

Chairperson: N.N.

13:30–13:45; EGU2007-A-03379; CL15-1FR3O-001

Friedlingstein, P.; Hibbard, K.; Meehl, G.; Cox, P.; The AGCI participants

A Strategy for Climate Change Stabilization Experiments with AOGCMs and ESMs

13:45–14:00; EGU2007-A-05238; CL15-1FR3O-002

Gregory, J. M.; Jones, C. D.

Quantifying carbon-cycle and climate feedbacks (solicited)

14:00–14:15; EGU2007-A-07937; CL15-1FR3O-003

Zaehle, S.; Friedlingstein, P.; Bopp, L.; Cadule, P.

A first estimate of the feedback between climate change and atmospheric N₂O concentration

14:15–14:30; EGU2007-A-05752; CL15-1FR3O-004

Brovkin, V.

Feedbacks between climate, land cover, and carbon cycle on centennial to millennial timescales (solicited)

14:30–14:45; EGU2007-A-02531; CL15-1FR3O-005

Kleidon, A.; Fraedrich, K.; Low, C.

Multiple Steady States in the terrestrial Atmosphere-Biosphere System as a Result of a discrete Vegetation Representation

14:45–15:00; EGU2007-A-06755; CL15-1FR3O-006

Crueger, T.; Roeckner, E.; Raddatz, T.J.; Schnur, R.

Ocean dynamics determine the response of oceanic CO₂-uptake to climate change

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-10572; CL15-1FR4O-001

Bony, S.; Colman, R.; Kattsov, V.

Physical climate feedbacks and climate sensitivity: what progress since the TAR? (solicited)

15:45–16:00; EGU2007-A-01289; CL15-1FR4O-002

Williams, K. D.

Results from the Cloud Feedback Model Intercomparison Project (CFMIP) (solicited)

16:00–16:15; EGU2007-A-01562; CL15-1FR4O-003

Solomon, A

The Impact of latent heat release in extratropical storms on polar climate

16:15–16:30; EGU2007-A-11017; CL15-1FR4O-004

Cai, M.; Lu, J-H

Factors for the meridional and vertical asymmetries of the global warming.

16:30–16:45; EGU2007-A-10558; CL15-1FR4O-005

HUTCHINGS, J.; Hibler, W.; Vavrus, S.

Precipitous Climate Change Induced by Sea Ice Mechanics

16:45–17:00; EGU2007-A-01614; CL15-1FR4O-006

Plattner, G.-K.; Joos, F.; Knutti, R.; Stocker, T.F.; Strassmann, K.M.

Carbon cycle and climate sensitivity related uncertainties in projected sea level rise from thermal expansion

17:00 END OF SESSION

CL15 Physical and Biogeochemical feedbacks in the Climate System (co-listed in BG) – Posters

Convener: Jones, C.

Co-Convener(s): Alexeev, V.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0183; EGU2007-A-01292; CL15-1FR2P-0183

Williams, K. D.

Evaluation of a component of the cloud response to climate change in an intercomparison of climate models

XY0184; EGU2007-A-01338; CL15-1FR2P-0184

Alexeev, V.A.; Langen, P.L.

Polar amplification as a preferred response in an idealized aquaplanet GCM

XY0185; EGU2007-A-09387; CL15-1FR2P-0185

Cadule, P.; Bopp, L.; Friedlingstein, P.; Caubel, A.; Dufresne, J.-L.

The role of non-CO₂ radiative forcing in determining of the amplitude of climate-carbon feedback

XY0186; EGU2007-A-09748; CL15-1FR2P-0186

Cadule, P.; Friedlingstein, P.; Bopp, L.; Jones, C.; Sitch, S.; Bousquet, P.; Ciais, P.; Peylin, P.; Piao, S.

Using observation to constrain coupled climate-carbon cycle models

XY0187; EGU2007-A-08920; CL15-1FR2P-0187

Jones, C.; Cadule, P.; Bopp, L.; Friedlingstein, P.

Climate-Carbon cycle feedbacks in multiple idealised experiments

XY0188; EGU2007-A-02977; CL15-1FR2P-0188

Falloon, PD.; Ades, M.; **Jones, CD**

Sensitivity of soil carbon storage and global climate-carbon cycle feedbacks to soil moisture

XY0189; EGU2007-A-02985; CL15-1FR2P-0189

Falloon, PD.; **Jones, CD.;** Betts, RA; Harrison, R; Booth, B; Collins, M

Uncertainty in soil carbon-climate change feedbacks

XY0190; EGU2007-A-04278; CL15-1FR2P-0190

Harrison, R.; Jones, C; Jogireddy, V

Simulating the European carbon balance with JULES

XY0191; EGU2007-A-05769; CL15-1FR2P-0191

Sturm, K.; Friedlingstein, P.; Bentsen, M.; Heinze, C.; Assmann, K.

Modelling the terrestrial carbon cycle: sensitivity to climate forcing and model formulation

XY0192; EGU2007-A-06664; CL15-1FR2P-0192

Ginzburg, A.; **Zavalishin, N**

Dynamics of the global carbon cycle: a number of simple low-parametric closed models

XY0193; EGU2007-A-06809; CL15-1FR2P-0193
Jupp, T.E.; Weedon, G.P.; Los, S.O.; **Taylor, C.M.**
Feedbacks between vegetation and precipitation inferred from remote sensing

XY0194; EGU2007-A-03632; CL15-1FR2P-0194
Strassmann, K. M.; Joos, F.
Past and future impact of land use on the carbon cycle and climate

XY0195; EGU2007-A-10407; CL15-1FR2P-0195
Drüzler, Á.; Csirmaz, K.; Mika, J.
Effects of documented land use changes on climate in Hungary simulated by the MM5 high-resolution model

XY0196; EGU2007-A-01632; CL15-1FR2P-0196
Swingedouw, D.; Bopp, L.; Matras, A.
Decrease in the Atlantic overturning does not significantly impact oceanic CO₂ uptake over century timescales.

XY0197; EGU2007-A-03594; CL15-1FR2P-0197
Ter Maat, H.W.; Moors, E.J.; Hutjes, R.W.A.; Janssen, R.; Dolman, A.J.
The relative importance of topography and land use on the Veluwe rainfall maximum in The Netherlands

XY0198; EGU2007-A-01862; CL15-1FR2P-0198
Marzeion, B.; Levermann, A.; Mignot, J.
Stratification-dependent mixing may increase sensitivity of Atlantic Overturning to global warming

XY0199; EGU2007-A-04492; CL15-1FR2P-0199
Winguth, A.; Mikolajewicz, U.; Maier-Reimer, E.; Schurgers, G.; Vizcaino, M.
Future longterm changes in marine CO₂ uptake and oxygen - an ESM study

XY0200; EGU2007-A-10944; CL15-1FR2P-0200
Nielsen, P. N.; Ditlevsen, P. D.
Modelling the interactions between climate and biosphere over geological timescales

XY0201; EGU2007-A-09105; CL15-1FR2P-0201
Nelson, S.; Valdes, P.; Beerling, D.
Modelling Methane during the Holocene

CL19/CL14 Climatic Extremes and their Impacts (collected in HS & ERE) / Mid-latitude cyclones: processes, variability, changes and impacts

Convener: Beniston, M.
Co-Convener(s): Goyette, S., Ulbrich, U., McDonald, R.
Lecture Room 13 (F1)
Chairperson: N.N.

8:30–8:45; EGU2007-A-01446; CL19/CL14-1FR10-001
Lambert, S.; **Fyfe, J.**
Human Induced Change in Winter Cyclone Frequency and Intensity

8:45–9:00; EGU2007-A-03819; CL19/CL14-1FR10-002
McDonald, R. E.
Future changes in extra-tropical cyclones in Hadley Centre climate models

9:00–9:15; EGU2007-A-03795; CL19/CL14-1FR10-003
Raible, C. C.; Della-Marta, P.; Schwierz, C.; Wernli, H.; Blender, R.
Northern Hemisphere midlatitude cyclones: A comparison of detection and tracking methods and different reanalyses

9:15–9:30; EGU2007-A-07555; CL19/CL14-1FR10-004
Mathis, H.; Della-Marta, P.M.; Frei, C.; Liniger, M.A.; Appenzeller, C.
Return periods of extreme wind-storms over Europe: An approach with compound indices and ERA-40 data

9:30–9:45; EGU2007-A-02778; CL19/CL14-1FR10-005
Pinto, J.G.; Ulbrich, U.; Leckebusch, G.C.; Spanghel, T.; Reyers, M.; Zacharias, S.
Changes in storm track and cyclone activity in three SRES ensemble experiments with the ECHAM5/MPI-OM1 GCM

9:45–10:00; EGU2007-A-06613; CL19/CL14-1FR10-006
Krichak, S.O.; Alpert, P.
Upper-troposphere effects of hurricane Olga (2001) in the development of conditions for torrential rains over the southeastern Mediterranean

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-09286; CL19/CL14-1FR20-001
Fowler, H.J.; Ekstrom, M.; Blenkinsop, S.; Smith, A.P.
Probabilistic projections of change in UK extreme rainfall using the PRUDENCE regional climate models

10:45–11:00; EGU2007-A-03094; CL19/CL14-1FR20-002
Brázdil, R.
Hydrometeorological extremes in Moravia and Silesia: past, present and future

11:00–11:15; EGU2007-A-02913; CL19/CL14-1FR20-003
Feudale, L.; Shukla, J.
The role of Mediterranean SST in the European heat wave of summer 2003

11:15–11:30; EGU2007-A-10101; CL19/CL14-1FR20-004
Goubanova, K.; Li, L.
Winter weather regimes over the North Atlantic and extreme climate events over Europe

11:30–11:45; EGU2007-A-06294; CL19/CL14-1FR20-005
Christensen, O. B.; Christensen, J. H.; Berg, P.
Precipitation Spectrum Validation in Regional Climate Models

11:45–12:00; EGU2007-A-08464; CL19/CL14-1FR20-006
Dankers, R.; Feyen, L.; De Roo, A.; Christensen, O.B.
Climate change impact on extreme precipitation and flood hazard in Europe

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2007-A-02606; CL19/CL14-1FR30-001
Beniston, M.; Goyette, S.
Changing climatic variability in Switzerland

13:45–14:00; EGU2007-A-06883; CL19/CL14-1FR30-002
Bernhard, L.; Thornton, P.
Recent meteorological extremes as triggers of hydrological extremes

14:00–14:15; EGU2007-A-01768; CL19/CL14-1FR30-003
Hallegatte, S.
The use of synthetic hurricane tracks in risk analysis and climate change damage assessment

14:15–14:30; EGU2007-A-03859; CL19/CL14-1FR30-004
Rossetti, A.; Lacavalla, M.; Brambilla, M.; Giacomelli, P.; Maggi, V.
Regional impact of meteorological extreme events: climatic causes and socio-economic effects

14:30–14:45; EGU2007-A-07282; CL19/CL14-1FR3O-005
Shmakin, A.B.; Popova, V.V.

Climatic extremes in North Eurasia: frequency and distribution under contemporary warming

14:45–15:00; EGU2007-A-03563; CL19/CL14-1FR3O-006
Lakatos, M.; Szentimrey, T; Bihari, Z; Szalai, S

Procedure for spatiotemporal analysis of extreme climate indices

15:00 END OF SESSION

CL19/CL14 Climatic Extremes and their Impacts (co-listed in HS & ERE) / Mid-latitude cyclones: processes, variability, changes and impacts – Posters

Convener: Beniston, M.

Co-Convener(s): Goyette, S., Ulbrich, U., McDonald, R.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 15:30–17:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0202; EGU2007-A-03206; CL19/CL14-1FR4P-0202

Timár, G.; Kern, A.; Barcza, Z.; Ferencz, Cs.; Lichtenberger, J.; Molnár, G.; Székely, B.

MODIS and HRPT satellite images of some characteristic and unusual cyclonal and anticyclonal meteorological situations of Europe in 2006

XY0203; EGU2007-A-02747; CL19/CL14-1FR4P-0203

Rudeva, I.; Gulev, S.K.

Climatology of the cyclone size characteristics and their changes during the cyclone life cycle

XY0204; EGU2007-A-02192; CL19/CL14-1FR4P-0204

van den Brink, H.W.; Selten, F.M.

Over-extreme extra-tropical winds in climate models

XY0205; EGU2007-A-01553; CL19/CL14-1FR4P-0205

Allan, R J.; Alexander, L V

Fluctuations in autumn-winter severe storms over the United Kingdom: 1920 to present

XY0206; EGU2007-A-09721; CL19/CL14-1FR4P-0206

Kaspar, F.; Spanghel, T.; Cubasch, U.

Simulated northern hemispheric storm tracks of the Eemian interglacial and the last glacial inception

XY0207; EGU2007-A-02547; CL19/CL14-1FR4P-0207

Goyette, S. G.

Synoptic conditions of extreme wind storms over Switzerland

XY0208; EGU2007-A-06477; CL19/CL14-1FR4P-0208

Leckebusch, G.C.; Ulbrich, U.; Fröhlich, L.; Pinto, J.G.; Donat, M.

European storms and their property loss potential under enhanced greenhouse gas concentrations – a global and regional climate model analysis

XY0209; EGU2007-A-01950; CL19/CL14-1FR4P-0209

Trigo, R.; Trigo, I.; Paredes, D.; Garcia-Herrera, R.

The impact of cyclone trends in the precipitation regime of western Europe

XY0210; EGU2007-A-10832; CL19/CL14-1FR4P-0210

Boroneant, C.

Trends in indices of daily precipitation extremes in Romania, 1961–2005

XY0211; EGU2007-A-07760; CL19/CL14-1FR4P-0211

Williams, C.; Kniveton, D; Layberry, R

Rainfall variability and extremes over southern Africa: assessment of a climate model to reproduce daily extremes

XY0212; EGU2007-A-08258; CL19/CL14-1FR4P-0212

Schlüter, I.; Schädler, G.

High resolution simulation of extreme precipitation and evaluation of its variability for the flood risk management using the Lokal-Modell

XY0213; EGU2007-A-09828; CL19/CL14-1FR4P-0213

Wagner, K.

Is the Bavarian Flood Protection Policy useful to decrease the Flood Damage?

XY0214; EGU2007-A-04887; CL19/CL14-1FR4P-0214

Popovici, F.

Flood hazard on the Siret river - Romania

XY0215; EGU2007-A-07403; CL19/CL14-1FR4P-0215

Shongwe, M. E.; van Oldenborgh, G. J.; de Boer, B.; van den Hurk, B.; van Aalst, M.; Coelho, C.

Projected changes in extreme weather in Africa under global warming

XY0216; EGU2007-A-05554; CL19/CL14-1FR4P-0216

Fragoso, M.; Brandão, C.

Heavy rainfall and flooding in Central Portugal in autumn 2006: climatological and hydrological analysis of three extreme events

XY0217; EGU2007-A-04399; CL19/CL14-1FR4P-0217

Rocha, A.; Marques, C; Ferreira, J; Castanheira, J; Melo-Gonçalves, P

Changes of precipitation episodes in southeastner Africa due to anthropogenic forcing

XY0218; EGU2007-A-08930; CL19/CL14-1FR4P-0218

Masson, E.

Living a thirty year return flood: results from a post-crisis inquiry at basin scale

XY0219; EGU2007-A-11087; CL19/CL14-1FR4P-0219

OrtizBeviá, M.J.; SánchezGómez, E.

Large scale atmospheric dynamics and extreme in precipitation and temperature over Iberia

XY0220; EGU2007-A-09455; CL19/CL14-1FR4P-0220

Ribera, P.; Ordoñez, P; Montañó, M; **Peña-Ortiz, C**

Climate change indices for Andalucia, Southern Spain

XY0221; EGU2007-A-06487; CL19/CL14-1FR4P-0221

Graczyk, D.; Szwed, M

The year of 2006 in Poland – the year of temperature and precipitation extremes

XY0222; EGU2007-A-00571; CL19/CL14-1FR4P-0222

Dyukarev, E.A.; Artyomova, E.P.

Variability of climate and climatic extremes in Siberia

XY0223; EGU2007-A-08910; CL19/CL14-1FR4P-0223

Huebener, H.; Mares, I.; Mares, C.; Cubasch, U.; Stanciu, P.

Estimating Roamanian rainfall contribution to lower Danube discharge

XY0224; EGU2007-A-03174; CL19/CL14-1FR4P-0224

Choi, B.C.; Kim, J.; Lee, D.G.

Occurrence, frequency, duration of heat waves in South Korea and impacts on human health

XY0225; EGU2007-A-11076; CL19/CL14-1FR4P-0225

Behera, S.; Luo, J.; Sakuma, H.; Yamagata, T.

The Dominant Impact of the Indian Ocean Dipole on the Extreme Climate Events of East Africa (cancelled)

XY0226; EGU2007-A-03678; CL19/CL14-1FR4P-0226

Rodriguez-Puebla, C.; Ayuso, S.M.; Frias, M.D.; Garcia-Casado, L.A.

Impacts of climate variations on winter cereal production in Spain

XY0227; EGU2007-A-03298; CL19/CL14-1FR4P-0227
Berki, I.; Galos, B.; Matyas, Cs.; Rasztovits, E.
Climate change and forest ecosystems – present and forecasted impacts in Hungary

XY0228; EGU2007-A-03161; CL19/CL14-1FR4P-0228
Chen, Y.-J.; Tung, C.-P.; Lien, W.-Y.; Chen, S.-C.
Impacts of Climate Change on Reservoir Systems

XY0229; EGU2007-A-03166; CL19/CL14-1FR4P-0229
Chen, Y.-J.; Tung, C.-P.; Lien, W.-Y.; Chen, S.-C.
Impacts of Climate Change on Reservoir Systems

XY0230; EGU2007-A-09929; CL19/CL14-1FR4P-0230
Caspary, H. J.; Katzenberger, B.
Increased risk of heat waves and dry spells in Southwest Germany linked to non-stationarity of "critical" atmospheric circulation types

XY0231; EGU2007-A-07072; CL19/CL14-1FR4P-0231
Kysely, J.
Implications of enhanced persistence of atmospheric circulation over Europe for the occurrence and severity of temperature extremes

XY0232; EGU2007-A-09666; CL19/CL14-1FR4P-0232
Abaurrea, J.; Asín, J.; Cebrián, A.C.
Comparative analysis of daytime and night-time extreme hot event processes in several Spanish observatories

XY0233; EGU2007-A-03173; CL19/CL14-1FR4P-0233
Kim, J.; Choi, B.C.; Lee, D.G.
Temperature extremes in South Korea and their health impacts

XY0234; EGU2007-A-11128; CL19/CL14-1FR4P-0234
Plaut, G.
Recent and future large scale circulation (LSC) changes around Mediterranean and Europe: a worsening factor affecting summer heatwaves through a regional intensification of global warming.

XY0235; EGU2007-A-03599; CL19/CL14-1FR4P-0235
van Oldenborgh, G.J.
How unusual was autumn 2007 in Europe?

XY0236; EGU2007-A-03279; CL19/CL14-1FR4P-0236
Tesouro, M.; Ribera, P.; Gallego, D.; de la Torre, L.; Gimeno, L.; Garcia-Herrera, R.; Redaño, A.; Garcia, A.
A climatology of Cold Air Development based on objective methods

CL30/CL3 (Sub)Arctic Ocean circulation and climate change - natural and anthropogenic forcing (co-listed in OS)

Convener: Koc, N.
Co-Convener(s): Kuijpers, A., Hald, M., Stein, R., Wadhams, P., Piacsek, S.
Lecture Room 13 (F1)
Chairperson: KLITGAARD-KRISTENSEN, D.

15:30–15:45; EGU2007-A-08343; CL30/CL3-1FR4O-001
Graversen, R. G.; Tjernström, M.; Källén, E.; Mauritsen, T.
Why is the Arctic warming? (solicited)

15:45–16:00; EGU2007-A-10038; CL30/CL3-1FR4O-002
Benkel, A.; Rockel, B.
Changes of sea ice and snow albedo on the northern hemisphere and their influence on sea ice cover and atmospheric circulation: A model study

16:00–16:15; EGU2007-A-07124; CL30/CL3-1FR4O-003
Pavlov, V.K.; Pavlova, O.A.
Increasing sea ice drift velocities in the Arctic Ocean, 1979–2005

16:15–16:30; EGU2007-A-03404; CL30/CL3-1FR4O-004
Hillaire-Marcel, C.; de Vernal, A.
The "isotopic" status of planktic foraminifers in the Arctic and their use as paleoceanographical tracers

16:30–16:45; EGU2007-A-07427; CL30/CL3-1FR4O-005
Nørgaard-Pedersen, N.; Mikkelsen, N.; Lassen, S. J.; Kristoffersen, Y.
The last interglacial Arctic Ocean – intrabasinal sediment and faunal records support much reduced sea ice concentrations

16:45–17:00; EGU2007-A-01900; CL30/CL3-1FR4O-006
Winkelmann, D.; Stein, R.; Schäfer, C.
Inflow Events of Atlantic Water and terrigenous Supply to the Sophia Basin north of Spitsbergen, Arctic Ocean

17:00 END OF SESSION

CL30/CL3 (Sub)Arctic Ocean circulation and climate change - natural and anthropogenic forcing (co-listed in OS) – Posters

Convener: Koc, N.
Co-Convener(s): Kuijpers, A., Hald, M., Stein, R., Wadhams, P., Piacsek, S.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: KLITGAARD-KRISTENSEN, D.

XY0237; EGU2007-A-04015; CL30/CL3-1FR3P-0237
Grant, A.; Brönnimann, S.; Griesser, T.; Ewen, T.; Nagurny, A.
Early 20th century Arctic warming in upper-air data

XY0238; EGU2007-A-05963; CL30/CL3-1FR3P-0238
Wang, J.; Watanabe, E.
Arctic Oscillation and Dipole Anomaly and their contribution to sea ice export from the Arctic in the last 20th century

XY0239; EGU2007-A-05079; CL30/CL3-1FR3P-0239
Polyakov, I.; Alexeev, V.; Belchansky, G.; Dmitrenko, I.; Ivanov, V.; Kirillov, S.; Korabiev, A.; Steele, M.; Timokhov, L.; Yashayaev, I.
Arctic Ocean Freshwater Content Changes and their Causes

XY0240; EGU2007-A-04006; CL30/CL3-1FR3P-0240
Brönnimann, S.; Lehmann, T.; Ewen, T.; Grant, A.; Griesser, T.
Reconstructing Arctic sea ice from 1900–1953

XY0241; EGU2007-A-07955; CL30/CL3-1FR3P-0241
Wilson, L.J.; Hald, M.; Godtliebsen, F.
Faunal evidence of 20th century Arctic warming.

XY0242; EGU2007-A-08209; CL30/CL3-1FR3P-0242
Macrande, A.; Valdimarsson, H.; Jónsson, S.; Quadfasel, D.
30 Years of Denmark Strait Overflow Observations linked with decadal Wind Stress and hydraulic Forcing Variability

XY0243; EGU2007-A-01593; CL30/CL3-1FR3P-0243
Divine, D.; Isaksson, E.; Meijer, H.; van de Wal, R. S.; Martma, T.; Pohjola, V.; Godtliebsen, F.
Deuterium excess in the Lomonosovfonna ice core, Svalbard: searching for the moisture source

XY0244; EGU2007-A-07815; CL30/CL3-1FR3P-0244
Funder, S.; Kjær, K.H.

A sea-ice free Arctic Ocean?

XY0245; EGU2007-A-02512; CL30/CL3-1FR3P-0245

Ebbesen, H.; Kuijpers, A.; Moros, M.; Lloyd, J; Seidenkrantz, M.-S.; Troelstra, S.R.

The 8.2 ka cooling event related to large scale melting of the Greenland Inland Ice?

XY0246; EGU2007-A-03636; CL30/CL3-1FR3P-0246

Klitgaard-Kristensen, D.; Elubowska-Woldengen, M.; Koç, N.; Rasmussen, T.; Hald, M.; Jennings, A.

Time-slice reconstructions of ocean circulation changes at the continental margins of the Nordic and Barents Seas during the last 16,000 cal yr BP

XY0247; EGU2007-A-02995; CL30/CL3-1FR3P-0247

Giraudeau, J.; Grelaud, M.; Solignac, S.; Moros, M.; Andrews, J.T.; Jansen, E.

Pervasive millennial-scale changes in inflow of the main (eastern) and secondary (western) branches of North Atlantic Drift waters to the Nordic Seas during the Holocene

XY0248; EGU2007-A-09930; CL30/CL3-1FR3P-0248

Kjennbakken, H.; Hafliðason, H.; Sejrup, H. P.

Holocene submillennial climate variability; evidence from foraminiferal oxygen isotopes from Voldafjorden, western Norway

XY0249; EGU2007-A-08041; CL30/CL3-1FR3P-0249

Nam, S.-I.; Bahk, J.J.; Chang, S.W.; Yi, S.; Lee, H.-K.; Stein, R.; Matthiessen, J.; Vogt, C.

Paleoenvironmental history of the Eastern Arctic Ocean during the last 200 ka

XY0250; EGU2007-A-08382; CL30/CL3-1FR3P-0250

Ceramicola, S.; Caburlotto, A.; Praeg, D.; Rebesco, M.

Palaeoceanographic Change over Geological Timescales in the northern North Atlantic Ocean: Proposed Investigations by OGS for IPY

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 15:30–17:00

CL Poster Area

Chairperson: N.N.

CL32/CL9 Applied Quaternary Geochronology (co-listed in GM) / High-resolution radiocarbon chronologies - methods and applications

Convener: Duller, G.

Co-Convener(s): Lang, A., Hajdas, I., Kiefer, T.

Lecture Room 14

Chairperson: DULLER, G.A.T, HAJDAS, I.

8:30–8:45; EGU2007-A-10215; CL32/CL9-1FR1O-001

Hughen, K.; The IntCal Working Group

IntCal04 update: a preliminary extension of the 14C-calendar age curve back to 50 ka. (solicited)

8:45–9:00; EGU2007-A-05856; CL32/CL9-1FR1O-002

Jull, A J T; Hodgins, G W L; Burr, G S; Beck, J W; Quade, J; Pigati, J

Potential for extension of the radiocarbon calibration based on terrestrial records

9:00–9:15; EGU2007-A-02859; CL32/CL9-1FR1O-003

Franke, J.; Paul, A.; Schulz, M.

Global Reservoir-Age Variations since 45 kyr BP in a 3D Ocean Model

9:15–9:30; EGU2007-A-10194; CL32/CL9-1FR1O-004
Zreda, M.

Effects of inheritance and erosion on cosmogenic ages of glacial landforms: too young, too old or just right

9:30–9:45; EGU2007-A-02927; CL32/CL9-1FR1O-005

Zech, R.; Kull, Ch.; Kubik, P.W.; Veit, H.

Surface exposure dating of moraines in Bolivia: unrecognized uncertainties and paleoclimatic implications

9:45–10:00; EGU2007-A-04433; CL32/CL9-1FR1O-006

Cliff, R.A.; Spoetl, C; Mangini, A

High resolution comparison of U-Pb and U-series ages of a speleothem from the Spannagel Cave, Austrian Alps.

10:00 END OF SESSION

CL32/CL9 Applied Quaternary Geochronology (co-listed in GM) / High-resolution radiocarbon chronologies - methods and applications – Posters

Convener: Duller, G.

Co-Convener(s): Lang, A., Hajdas, I., Kiefer, T.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: LANG, A., KIEFER, T.

XY0251; EGU2007-A-05219; CL32/CL9-1FR2P-0251

Hormes, A.; Blaauw, M.; Dahl, S.O.; Nesje, A.; Possnert, G.

A radiocarbon wiggle-match dated age-model for the proglacial lake Hervavatnet, western Norway

XY0252; EGU2007-A-00301; CL32/CL9-1FR2P-0252

Blaauw, M.; Wohlfarth, B; Preusser, F; Veres, D; Ampel, L; Hughen, KA; Reimer, PJ

Bayesian testing for synchrony of events in glacial proxy archives

XY0253; EGU2007-A-08847; CL32/CL9-1FR2P-0253

Butzin, M.; Prange, M.; Lohmann, G.

Iterative adjustment of glacial radiocarbon histories by means of three-dimensional ocean circulation simulations

XY0254; EGU2007-A-10767; CL32/CL9-1FR2P-0254

Hajdas, I.

High resolution radiocarbon dating for improved chronologies of Holocene records

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: LANG, A., KIEFER, T.

XY0255; EGU2007-A-09094; CL32/CL9-1FR3P-0255

Friedrich, W.L.; Heinemeier, J.; Kromer, B.; Friedrich, M.; Pfeiffer, T.; Talamo, S.

Radiocarbon date of the Minoan eruption of Santorini - not affected by old volcanic CO₂ emissions

XY0256; EGU2007-A-11261; CL32/CL9-1FR3P-0256

Beer, J.

Comparison of High-resolution 14C and 10Be Records Comparison of High-resolution 14C and 10Be Records

XY0257; EGU2007-A-11262; CL32/CL9-1FR3P-0257

Nadeau, M.-J.; Grootes, P.M.

How to find a true date: Match making or calibrating

XY0258; EGU2007-A-00677; CL32/CL9-1FR3P-0258
Lokas, E.; Wachniew, P.; Ciszewski, D.; Chau, N. D.; Ostachowicz, B.
 The combined use of ²¹⁰Pb, ¹³⁷Cs and heavy metal concentrations for

XY0259; EGU2007-A-11623; CL32/CL9-1FR3P-0259
Ivy-Ochs, S.; Kerschner, H.; Kubik, P.W.
 Refining the timing of glacier variations at the Pleistocene/Holocene transition based on ¹⁰Be exposure dating

XY0260; EGU2007-A-10648; CL32/CL9-1FR3P-0260
Robinson, R.A.J.; Owen, L.A.; Benn, D.I.; Finkel, R.C.; Yi, C.; Putkonen, J.K.; Murray, A.S.; Davis, N.; Dewen, L.
 OSL and cosmogenic-ray nuclide dating of glacial advances in the Rongbuk Valley of Mt Everest, Tibet

XY0261; EGU2007-A-05262; CL32/CL9-1FR3P-0261
Duller, G.A.T.; Glasser, N.F.; Harrison, S.
 Single grain optical dating of glacial sediments on the margins of the North Patagonian Icefield

XY0262; EGU2007-A-08271; CL32/CL9-1FR3P-0262
Fogwill, C.J.; Bentley, M.J.; Sugden, D.E.; Hubbard, A.G.
 Glacial history of the Ellsworth Mountains, Weddell Sea embayment, West Antarctica

XY0263; EGU2007-A-10781; CL32/CL9-1FR3P-0263
Spencer, J.Q.G.
 Assessment of luminescence ages for quartz signals near saturation

XY0264; EGU2007-A-01385; CL32/CL9-1FR3P-0264
Lee, J.; Li, S.H.; Aitchison, J.C.
 OSL dating of paleoshorelines at Lagkor Tso Lake, Western Tibet

XY0265; EGU2007-A-03347; CL32/CL9-1FR3P-0265
Steffen, D.; Schlunegger, F.; Preusser, F.
 Correlating sediment aggradation and climate by means of luminescence dating, Valley de Pisco, Peru

XY0266; EGU2007-A-03814; CL32/CL9-1FR3P-0266
v. Suchodoletz, H.; Fuchs, M.; Zöller, L.
 Luminescence dating of fluvioeolian-paleosol sequences at Lanzarote (Canary Islands).

XY0267; EGU2007-A-06157; CL32/CL9-1FR3P-0267
Sierralta, M.; Kele, S.; Melcher, F.; van Geldern, R.; Frechen, M.
 Characterisation and Uranium-Series Dating of Travertine from Süttö in Hungary

XY0268; EGU2007-A-09688; CL32/CL9-1FR3P-0268
Foeken, J.; Stuart, F.; Day, S.; Wall, F.
 Carbonatite seamount formation and first subaerial exposure of Fogo (Cape Verde Islands): results from apatite and pyrochlore (U-Th)/He dating

8:45–9:00; EGU2007-A-06113; CR150-1FR1O-002
Vieli, A.; Payne, A. J.; Shepherd, A.; Du, Z.
 The dynamics of Larsen B ice shelf: insights from numerical modelling constrained by satellite observations

9:00–9:15; EGU2007-A-11709; CR150-1FR1O-003
Price, S.F.; Payne, A.J.; Neumann, T.A.; Catania, G.A.
 Seasonal acceleration of inland ice via longitudinal coupling to marginal ice

9:15–9:30; EGU2007-A-09157; CR150-1FR1O-004
Tarasov, Lev.; Peltier, W. R.; Gyllencreutz, R.; Lohne, O.; Mangerud, J.; Svensen, J.-I.
 The impact of margin uncertainties in the calibration of a deglacial model for Eurasia

9:30–9:45; EGU2007-A-01181; CR150-1FR1O-005
Steen-Larsen, H. C.; Koutnik, M. R.; Waddington, E. D.
 Formulating an inverse problem to determine the accumulation rate pattern from deep internal layering in an ice sheet

9:45–10:00; EGU2007-A-03828; CR150-1FR1O-006
Martin, C.; Hindmarsh, R.; Navarro, F.
 On the effects of divide migration, along-ridge flow and basal sliding on isochrones near an ice divide

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–11:00; EGU2007-A-03103; CR150-1FR2O-001
Pollard, D.; DeConto, R.M.
 Grounding line behavior in a heuristically coupled ice sheet-shelf model (solicited)

11:00–11:15; EGU2007-A-06785; CR150-1FR2O-002
Gagliardini, O.
 Modelling of the grounding line migration using a buoyancy stress condition

11:15–11:30; EGU2007-A-10297; CR150-1FR2O-003
Mugford, R. I.; Dowdeswell, J. A.
 Numerical modelling of glacial marine sedimentation from tidewater glaciers: iceberg-rafted vs meltwater plume deposition

11:30–11:45; EGU2007-A-03164; CR150-1FR2O-004
SAITO, F.; Abe-Ouchi, A.; Blatter, H.; Segawa, T.
 An improved numerical scheme to compute horizontal gradients at the ice-sheet margin: its effect on the simulated ice thickness and temperature (solicited)

11:45–12:00; EGU2007-A-07425; CR150-1FR2O-005
Bueler, E. L.; Lingle, C. S.; Brown, J. A.; Covey, D. N.
 Basal motion beneath the Antarctic ice sheet: a comparison of linear and plastic till rheologies in a multi-modal flow model

12:00 END OF SESSION

Cryospheric Sciences

CR150 Modelling ice sheets and glaciers

Convener: Hindmarsh, R.
 Co-Convener(s): Pattyn, F.
 Lecture Room 4 (H)
 Chairperson: N.N.

8:30–8:45; EGU2007-A-04566; CR150-1FR1O-001
Joughin, I.; Bamber, J.; Vaughan, D.; Holt, J.; Blankenship, D.; MacAyeal, D.
 Basal Shear Stress for Pine Island and Thwaites glaciers, Antarctica (solicited)

Energy, Resources and the Environment

ERE1 Wind Power Meteorology

Convener: Mann, J.
 Co-Convener(s): Sempreviva, A., Barthelmie, R., Pontes, T.
 Lecture Room 27
 Chairperson: N.N.

13:30–13:45; EGU2007-A-11100; ERE1-1FR3O-001
Sempreviva, A.M.; Barthelmie, R.J.; Lange, B.; Sood, A.
 Offshore wind resource assessment in European Seas, state-of-the-art. A survey within the FP6 "POWWOW" Coordination Action Project.

13:45–14:00; EGU2007-A-09399; ERE1-1FR3O-002
Kallos, G.; Galanis, G; Katsafados, P
 Local wind speed forecasting and applications to power prediction

14:00–14:15; EGU2007-A-09614; ERE1-1FR3O-003
Gräwe, U.; von Bremen, L.; Saleck, N.; Tambke, J.
 A new way to estimate the uncertainty in wind power predictions

14:15–14:30; EGU2007-A-09328; ERE1-1FR3O-004
Weidinger, T.; Costa, A.A.; Lajos, T.; Kiss, Á.; Gyöngyösi, A.Z.; Papp, B.
 Estimation of wind energy potential in the equatorial coastal area of Brazil based on measurements and mesoscale numerical model results

14:30–14:45; EGU2007-A-07590; ERE1-1FR3O-005
Ólafsson, H.; Rögnvaldsson, Ó.
 Wind energy in a future climate of the complex terrain of Iceland

14:45–15:00; EGU2007-A-08776; ERE1-1FR3O-006
García-Bustamante, E.; González-Rouco, J.F.; Navarro, J.; Jiménez, P.A.
 Relationship between North Atlantic circulation and wind variability in the Northeast of the Iberian Peninsula

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-10310; ERE1-1FR4O-001
Weng, W.; Taylor, P. A.; Salmon, J. R.
 A Numerical Model for Boundary-Layer Flow over Changes of Surface

15:45–16:00; EGU2007-A-02256; ERE1-1FR4O-002
Mohr, M
 Parameterisation of roughness effects of scattered forests for mesoscale modelling of the wind climate (cancelled)

16:00–16:15; EGU2007-A-09336; ERE1-1FR4O-003
Lange, B.; Cali, Ü; Jursa, R; Rohrig, K
 Combination of numerical weather prediction models and online measurement data for wind power forecasting using artificial intelligence methods

16:15–16:30; EGU2007-A-09980; ERE1-1FR4O-004
Sood, A.; Suselj, K.
 Extreme Wind Statistics at the North Sea offshore site FINO at different temporal resolutions

16:30–16:45; EGU2007-A-04881; ERE1-1FR4O-005
Kirk-Davidoff, D.; Barrie, D
 Downstream synoptic impact of time-varying windfarm roughness

16:45 END OF SESSION

ERE1 Wind Power Meteorology – Posters

Convener: Mann, J.
 Co-Convener(s): Sempreviva, A., Barthelmie, R., Pontes, T.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0269; EGU2007-A-09675; ERE1-1FR2P-0269
Suselj, K.; Sood, A; Canadillas, B
 The planetary boundary layer over North Sea: measurements and mesoscale simulations

XY0270; EGU2007-A-04593; ERE1-1FR2P-0270
 Giebel, G; The POWWOW team
 The POW'WOW project: a coordination action on wave, wakes and offshore wind.

XY0271; EGU2007-A-09011; ERE1-1FR2P-0271
Jiménez, P.A.; González-Rouco, J.F.; Montávez, J.; García-Bustamante, E.; Navarro, J.
 Climatology of surface wind patterns over the Comunidad Foral de Navarra region

XY0272; EGU2007-A-07451; ERE1-1FR2P-0272
 Poret, S.; Ólafsson, H.
 Long-term variability of winds and wind energy in Iceland

XY0273; EGU2007-A-10218; ERE1-1FR2P-0273
 Radics, K.; Bartholy, J.
 Seasonal and spatial variability of wind climate in the Carpathian Basin

XY0274; EGU2007-A-10110; ERE1-1FR2P-0274
 Dunne, S.; Hanafin, J.; Lynch, P.; McGrath, R.; Nolan, P.; Semmler, T.; Wang, S.
 Validation of Mesoscale Wind Forecasts for Ireland

XY0275; EGU2007-A-09177; ERE1-1FR2P-0275
Jiménez, P.A.; Montávez, J.P.; González-Rouco, J.F.; García-Bustamante, E.; Navarro, J.
 Diurnal surface wind speed variations over a complex terrain region

Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00

Poster Area Halls X/Y
 Chairperson: N.N.

XY0276; EGU2007-A-08547; ERE1-1FR2P-0276
Mestre, O.; Jouhanique, T.; Nicolau, J.; Hallegatte, S.
 Non-parametric kernel estimation of conditional probability distribution functions applied to wind energy production forecasts

XY0277; EGU2007-A-07483; ERE1-1FR2P-0277
Ólafsson, H.; Poret, S.
 Aspects of temporal and spatial variability of winds and time averaging of wind data for energy calculations

XY0278; EGU2007-A-08707; ERE1-1FR2P-0278
Fage, F.; Tasso, T
 Sodar acoustic enclosure versus ambient acoustic noise, ground clutter and aerodynamically generated wind noise

XY0279; EGU2007-A-01605; ERE1-1FR2P-0279
Hasager, C.B.; Astrup, P.; Nielsen, P.; Christiansen, M.B.; Nielsen, M.
 Satellite ocean surface winds in offshore wind engineering

XY0280; EGU2007-A-10046; ERE1-1FR2P-0280
Cañadillas, C.; Durante, D; Neumann, N; Suselj, S; Sood, S
 Derivation of the marine surface layer conditions from FINO-1 measurements

XY0281; EGU2007-A-04671; ERE1-1FR2P-0281
Barthelmie, R.J.; UPWIND FLOW (WP8) Team
Power losses from wakes in large offshore wind farms

XY0282; EGU2007-A-11467; ERE1-1FR2P-0282
Peña, A.; **Hasager, C.**; Gryning, S.-E.; Courtney, M.;
Sørensen, P.
Evaluation of the offshore wind resource using LIDAR

ERE7 Natural stone resources for historical monuments

Convener: Prikryl, R.

Co-Convener(s): Török, Á.

Lecture Room 2

Chairperson: N.N.

13:30–14:00; EGU2007-A-04187; ERE7-1FR3O-001
Smith, B.J.; Curran, J.M.; Warke, P.A.; Stelfox, D.; Sav-
age, J.

A natural stone database for Northern Ireland based on
performance in use (solicited)

14:00–14:15; EGU2007-A-06260; ERE7-1FR3O-002

Frangipane, A.

The use of Piasentina Stone in Friuli Region (NE Italy): a
Summary of Recent Knowledge.

14:15–14:30; EGU2007-A-06535; ERE7-1FR3O-003

Reucher, R.; Leisen, H.; v. Plehwe-Leisen, E.; Klein-
schrodt, R.

The building stones of the Khmer-temples at
Angkor/Cambodia: A petrological and geochemical
approach towards a conservation oriented characterisation of
the inventory.

14:30–14:45; EGU2007-A-00261; ERE7-1FR3O-004

Colucci, M. F.; Baltuille, J. M.; Gisbert, J.; Buj, O.; Sanz, D.
A new natural stone database: from the logical design to the
implementation.

14:45–15:00; EGU2007-A-01414; ERE7-1FR3O-005

Stingl, K.

The collection of the Vienna World Exhibition 1873 - A
historical stone database for monuments

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-01580; ERE7-1FR4O-001

Chiotis, E.; Photiades, A.; Tsombos, P.

Geological survey for the localization of rocks proper for
the restoration of the Grave Circle A' in the acropolis of
Mycenae, Greece

15:45–16:00; EGU2007-A-02637; ERE7-1FR4O-002

Šestná, A.; Jehlička, J.; Pøikryl, R.

Raman spectra of reduced carbonaceous matter as a tool for
provenancing marbles: examples of graphite marbles from
Czech localities

16:00–16:15; EGU2007-A-03522; ERE7-1FR4O-003

Török, Á.

Hungarian dimension stones: from the Roman period to
present

16:15–16:30; EGU2007-A-04491; ERE7-1FR4O-004

Gomez-Heras, M.; Smith, B.; Viles, H.; Emery, B.

Not all it is cracked up to be: The disparity between
specifications and performance for oolitic limestones used
in construction

16:30–16:45; EGU2007-A-04745; ERE7-1FR4O-005

Angeli, M.; Hébert, R.; Bigas, J.-P.; Menéndez, B.;
David, C.

Influence of temperature and salt concentration on the salt
weathering of sedimentary stones

16:45–17:00; EGU2007-A-05341; ERE7-1FR4O-006

OGUCHI, C. T.; YUASA, H. Y.

Effects of Rock Properties on Salt Weathering of Oya-tuff
building stone

17:00 END OF SESSION

ERE8 Aggregates – the most widely used geological material

Convener: Prikryl, R.

Co-Convener(s): Török, Á., Miskovsky, K.

Lecture Room 2

Chairperson: N.N.

10:30–10:45; EGU2007-A-01741; ERE8-1FR2O-001

Gammelsæter, E

Building Europe's future with Aggregates (solicited)

10:45–11:00; EGU2007-A-01908; ERE8-1FR2O-002

Miskovsky, K.; Taborda Duarte, M.; Kou, S. Q.;

Lindqvist, P. A.

Influence of the Mineralogical Composition and Textural
Properties on the Quality of Coarse Aggregates

11:00–11:15; EGU2007-A-07139; ERE8-1FR2O-003

Loorents, K.J.L.; Said, S.S.

Impact of mica content on water sensitivity of asphalt
concrete

11:15–11:30; EGU2007-A-00079; ERE8-1FR2O-004

Habert, G.; Marden Torres, S.; Perazzo Barbosa, N.;
Azeredo, G.; Araujo Porto Vieira (de), A.; Morel, J.C.

Use of ceramic waste materials as aggregate and pozzolan
binder in adobes: mineralogical, hydrologic and strength
resistance investigations

11:30–11:45; EGU2007-A-03493; ERE8-1FR2O-005

Török, Á.

Volcanic rocks and carbonates; the two common aggregate
resources of Hungary

11:45–12:00; EGU2007-A-10860; ERE8-1FR2O-006

Jeffrey, K.

Aggregate product quality maps for sand and gravel deposits

12:00 END OF SESSION

ERE9 Archaeometry: The use of geoscientific techniques to probe the archaeological environment

Convener: Glover, P.

Lecture Room 2

Chairperson: GLOVER, PWJ

8:30–8:45; EGU2007-A-00089; ERE9-1FR1O-001

Cohen-Ofri, I.; Weiner, L.; Popovitz-Biro, R.; Boaretto, E.;
Mintz, G.; Weiner, S.

Modern and Fossil Charcoal: Aspects of Structure and
Diagenesis (cancelled)

8:45–9:00; EGU2007-A-10463; ERE9-1FR1O-002

Glover, PWJ

The discovery of an Anglo-Saxon grubenhaus at New Be-
wick, northern UK using electrical surveying and predictive
deconvolution

9:00–9:15; EGU2007-A-01466; ERE9-1FR10-003
 Renson, V.; De Vleeschouwer, F.; Fagel, N.; Mattielli, N.; Nekrassoff, S.; Streel, M.
 Early Pb-Zn mining and transport revealed by elemental and lead isotopes geochemistry nearby a Late Roman to Merovingian cobbled road (Belgium). A direct application of geochemistry to archaeology

9:15–9:30; EGU2007-A-03916; ERE9-1FR10-004
 Hill, I.; Leech, C.
 Advantages of free-roving multi-sensor geophysical surveys for archaeological prospection

9:30–9:45; EGU2007-A-10877; ERE9-1FR10-005
 Anguilano, L.; Rehren, Th; Mueller, W; Rothenberg, B.
 Lead Isotopes: Information on the Roman metallurgical process for the production of silver

9:45–10:00; EGU2007-A-09415; ERE9-1FR10-006
 Elmaleh, A.; Galy, A.; Day, J.A.; Marriner, N.; Morhange, C.
 A heavy metals record from the ancient northern harbor of Tyre (Lebanon)

10:00 END OF SESSION

ERE9 Archaeometry: The use of geoscientific techniques to probe the archaeological environment – Posters

Convener: Glover, P.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0283; EGU2007-A-01646; ERE9-1FR2P-0283
 Bavarian, B.; Reiner, L.
 Advanced surface science techniques for characterization of Chinese bronzes

XY0284; EGU2007-A-04712; ERE9-1FR2P-0284
 Kramar, S.; Mirtiè, B.; Gregerova, M.
 Characterization of mortars used since baroque period on altar of St. Jacob Church (Ljubljana, Slovenia)

XY0285; EGU2007-A-05194; ERE9-1FR2P-0285
 Astalos, C.; Feurdean, A.
 Archaeology and environment in Oaş Depression, northwestern Romania

XY0286; EGU2007-A-05988; ERE9-1FR2P-0286
 GRASSI, D.; GRIMALDI, S.; SIMEONE, V.
 Geological and geomorphological conditioning in localization of apulian rupestrian settlements

XY0287; EGU2007-A-06023; ERE9-1FR2P-0287
 Dobnikar, M.; Mirtiè, B.; Golež, M.; Mladenoviæ, A.; Sever Škapin, A.
 Characterisation of plasters and final paint layers from the baroque manor house Novo Celje - Slovenia

XY0288; EGU2007-A-06552; ERE9-1FR2P-0288
 Delmonaco, G.; Margottini, C.; Orlando, L.; Spizzichino, D.
 Geological and geophysical investigation in the North Stelae Park of Aksum (Ethiopia) as contribution for the re-erection of the Roma Stela.

XY0289; EGU2007-A-07533; ERE9-1FR2P-0289
 Rezae, Aabdu
 ecological changes and pre historic human settlement in shusthar plain: case study

XY0290; EGU2007-A-08881; ERE9-1FR2P-0290
 Szilagyi, V.; Gyarmati, J.; Szakmany, Gy.
 Provenance inquiry of Inka Period ceramics: a petrographic study

XY0291; EGU2007-A-11428; ERE9-1FR2P-0291
 Nodarou, E.; Iliopoulos, I.; Papadatos, Y.
 From the Neolithic to the Early Bronze Age: provenance and technology of early ceramics from Sitia, East Crete

Geochemistry, Mineralogy, Petrology & Volcanology

GMPV10 Precipitation and Dissolution of Carbonates

Convener: Köhler, S.
 Co-Convener(s): Dietzel, M., Eisenhauer, A.
 Lecture Room 21 (O)
 Chairperson: KOHLER, S.

8:30–8:45; EGU2007-A-09470; GMPV10-1FR10-001
 Ruiz-Agudo, E.; Putnis, C.V.; Rodríguez-Navarro, C.
 An experimental study of calcite dissolution in the presence of Mg²⁺

8:45–9:00; EGU2007-A-08169; GMPV10-1FR10-002
 Tang, J.; Köhler, S. J.; Dietzel, M.; Eisenhauer, A.; Böhm, F.; Leis, A.
 Sr²⁺/Ca²⁺ and 44Ca/40Ca Fractionation During Crystallization of CaCO₃ Polymorphs – Experimental study at Low Temperature

9:00–9:15; EGU2007-A-05643; GMPV10-1FR10-003
 Fernández-Díaz, L.; Pérez-Garrido, C.; Pina, C.M.; Prieto, M.
 Interaction between calcite {10 -14} surface and Cd-bearing aqueous solutions: An AFM study

9:15–9:30; EGU2007-A-07506; GMPV10-1FR10-004
 Kirk, G.J.D.; Huang, Y.-M.; Nye, P.H.
 Kinetics of calcium carbonate precipitation in soil

9:30–9:45; EGU2007-A-01970; GMPV10-1FR10-005
 Hammer, Ø.; Dysthe, D.K.; Lelu, B.
 Calcite precipitation instability under open-channel flow

9:45–10:00; EGU2007-A-06292; GMPV10-1FR10-006
 Katsikopoulos, D.; Fernandez-Gonzalez, A.; Prieto, M.
 Preliminary results upon crystallization of the (Co,Ca)CO₃ solid solution

10:00 END OF SESSION

GMPV10 Precipitation and Dissolution of Carbonates – Posters

Convener: Köhler, S.
 Co-Convener(s): Dietzel, M., Eisenhauer, A.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 13:30–15:00
 Poster Area Hall A
 Chairperson: N.N.

A0001; EGU2007-A-01663; GMPV10-1FR3P-0001
 Böttcher, M.E.
 Isotope equilibrium and disequilibrium effects in dissolved carbonate species and witherite in alkaline solutions: Open system experiments

A0002; EGU2007-A-02444; GMPV10-1FR3P-0002
 Baraka-Lokmane, S.; Sorbie, K.S.; Poisson, N.
 The use of Green Scale Inhibitors for Squeeze Treatments, Carbonate Coreflooding Experiments

A0003; EGU2007-A-04168; GMPV10-1FR3P-0003
Mavromatis, V.; Comas, L.; Schmidt, M.; Hensen, C.; Liebetrau, V.; Wallmann, K.
 Laboratory precipitated Mg-Calcite compared to authigenic carbonate formed at mud mounds (Costa Rica/Nicaragua Fore Arc)

A0004; EGU2007-A-06319; GMPV10-1FR3P-0004
Battaia, G.; Garcia, D.; Lallemand, A.; Moutte, J.; Michel, A.; Brosse, E.
 Capturing spatial trends in an 1D packed bed experiment for the validation of reaction-transport code predictions

A0005; EGU2007-A-07005; GMPV10-1FR3P-0005
 Kosednar-Legenstein, B.; **Dietzel, M.;** Leis, A.; Stengl, K.; Baumgartner, M.
 13C/12C- and 18O/16O-Signatures of Historical Carbonate Mortar and Plaster – Field Study and Experiment

A0006; EGU2007-A-07211; GMPV10-1FR3P-0006
Dietzel, M.; Böttcher, M. E.
 Carbon and sulfur isotope ratios of DIC and sulfate in fresh waters - Effects of BaCO₃ and BaSO₄ coprecipitation and analytical technique

A0007; EGU2007-A-07899; GMPV10-1FR3P-0007
Sánchez-Pastor, N.; Pina, C.M.; Fernández-Díaz, L.
 Nanoscale observations of coupled growth and dissolution on celestite {001} surfaces in contact with carbonate-bearing aqueous solutions

A0008; EGU2007-A-07991; GMPV10-1FR3P-0008
Amiri bakhtiyar, Iran; Shemirani, Iran; Sadeghi, Iran; Adabi, Iran; Avarjani, Iran
 Geochemical study on Rudists of the Tarbur Formation in Zagros basin

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 15:30–17:00

Poster Area Hall A
 Chairperson: N.N.

A0009; EGU2007-A-07993; GMPV10-1FR4P-0009
Bucca, M.; Köhler, S.; Dietzel, M.; Cubillas, P.; Prieto, M.; Plansch, M.; Schnitzer, C.
 Use of organic aragonite shells for the removal of aqueous metals in polluted soils and waste waters

A0010; EGU2007-A-09924; GMPV10-1FR4P-0010
Lazareva, E.; Traskine, V.; Skvortsova, Z.; Muralev, A.
 Effect of cyclic stress on the rate of pressure solution in halite and calcite

A0011; EGU2007-A-11522; GMPV10-1FR4P-0011
Stumpf, T.; Marques-Fernandes, M.; Walther, C.; Schmidt, M.; Dardenne, K.; Bosbach, D.; Fanghänel, Th
 Structural incorporation of Eu(III) into calcite: process understanding on a molecular level (cancelled)

A0012; EGU2007-A-03043; GMPV10-1FR4P-0012
Hammerich, T.; Garbe-Schönberg, D.; Liebetrau, V.
 Seep carbonates: First results from Meteor 66 drill cores

A0013; EGU2007-A-06874; GMPV10-1FR4P-0013
Dietzel, M.; Rinder, T.; Leis, A.; Köhler, S.; Klammer, D.; Reichl, P.
 13C/12C and 18O/16O Signatures of Calcite Sinter in Alkaline Drainage Solutions – Proxy for Precipitation Mechanisms

A0014; EGU2007-A-11518; GMPV10-1FR4P-0014
Bosbach, D.; Heberling, F.; Denecke, M.
 Neptunium(V) coprecipitation with calcite (cancelled)

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 17:30–19:00

GMPV Poster Area
 Chairperson: N.N.

GMPV11 CO₂ Geological Sequestration: bio-mechano-geochemical processes from the pore-scale to the reservoir-scale

Convener: BENEZETH, P.
 Co-Convener(s): MENEZ, B., Noiriél, C.
 Lecture Room 21 (O)
 Chairperson: BENEZETH, P. - MENEZ, B. - NOIRIEL C.

10:30–10:45; EGU2007-A-04038; GMPV11-1FR2O-001
Golubev, S.; Bénézeth, P.; Schott, J.
 Siderite dissolution kinetics in acidic aqueous solutions from 60 to 100°C and 0 to 50 atm pCO₂.

10:45–11:00; EGU2007-A-03967; GMPV11-1FR2O-002
Dupraz, S.; Ménez, B.; Guyot, F.
 The importance of gas/solution exchange for CO₂ biomineralization into carbonates in the subsurface

11:00–11:15; EGU2007-A-03655; GMPV11-1FR2O-003
Regnault, O.; Lagneau, V.; Thiry, M.; Schneider, H.
 Experimental study of pure mineral phases/supercritical CO₂ reactivity - Kinetics of portlandite carbonation measurement

11:15–11:30; EGU2007-A-07153; GMPV11-1FR2O-004
Gislason, S.R.; Gunnlaugsson, E.; Broecker, W.S.; Oelkers, E.H.; Matter, J.M.; Stefánsson, A.; Arnórsson, S.; Björnsson, G.; Fridriksson, T.; Lackner, K.S
 Permanent CO₂ sequestration into basalt: the Hellisheidi, Iceland project

11:30–11:45; EGU2007-A-11064; GMPV11-1FR2O-005
Flukiger, F.; Bernard, D.; Benezeth, P.
 Pore-scale modelling of calcite dissolution by acidic water flow

11:45–12:00; EGU2007-A-04330; GMPV11-1FR2O-006
Biagi, S.; Geloni, C.; Gherardi, F.; Guidi, M.
 Numerical modelling of well-bore cement degradation during CO₂ sequestration

12:00 END OF SESSION

GMPV11 CO₂ Geological Sequestration: bio-mechano-geochemical processes from the pore-scale to the reservoir-scale – Posters

Convener: BENEZETH, P.
 Co-Convener(s): MENEZ, B., Noiriél, C.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 17:30–19:00
 Poster Area Hall A
 Chairperson: BENEZETH, P. - MENEZ, B. - NOIRIEL C.

A0015; EGU2007-A-04307; GMPV11-1FR5P-0015
Bénézeth, P.; Dandurand, J.L.; Harrichoury, J.C.
 The solubility of siderite (FeCO₃) as a function of temperature

A0016; EGU2007-A-08155; GMPV11-1FR5P-0016
Maineult, A.; Naudet, V.; Coudurier, A.; Menez, B.; Zamora, M.
 Laboratory monitoring of self-potential (SP) variations during bacterial activity

A0017; EGU2007-A-02743; GMPV11-1FR5P-0017
Assayag, N.; Matter, J.; Ader, M.; Agrinier, P.
 Isotopic and geochemical characteristics to monitor fluid-rock interactions, following a small scale CO₂ injection

A0018; EGU2007-A-06441; GMPV11-1FR5P-0018
Andreani, M.; Gouze, Ph.; Luquot, L.; Leprovost, R.
 Alteration and auto-sealing of fractured shales induced by
 CO₂-rich fluid percolation

A0019; EGU2007-A-07488; GMPV11-1FR5P-0019
 Luquot, L.; Gouze, Ph.; Melean, Y.; Andreani, M.
 Implications of CO₂-saturated brine percolation in car-
 bonate rocks under sequestration conditions: Experimental
 constraints

A0020; EGU2007-A-09544; GMPV11-1FR5P-0020
Camps, A. P.; Milodowski, A. E.; Rochelle, C. A.;
 Lovell, M. A.; Brewer, T. S.; Jackson, P. D.; Williams, J. F.
 Salt inclusion during rapid CO₂ hydrate formation

A0021; EGU2007-A-07227; GMPV11-1FR5P-0021
 Lee, W.; **Lamorena, R.**
 Inclusion chemistry in clathrate hydrates: an alternative
 process for pollutant gas immobilization technique

A0022; EGU2007-A-07696; GMPV11-1FR5P-0022
Boschi, C.; Dallai, L.; Dini, A.; Gianelli, G.; Ruggieri, G.
 Carbonated serpentinites in Tuscany (Italy): a geological
 analogue to carbon dioxide sequestration

A0023; EGU2007-A-02748; GMPV11-1FR5P-0023
Lions, J.; Gaus, I.; Bateman, K.
 Modelling of fluid-rock interactions during a large-scale
 column experiment under reservoir conditions

A0024; EGU2007-A-06368; GMPV11-1FR5P-0024
Cantucci, B.; Montegrossi, G.; Tassi, F.; Vaselli, O.;
 Buccianti, A.; Quattrocchi, F.
 Feasibility and validation procedure of a geochemical
 modeling applied to CO₂ storage: a new approach

A0025; EGU2007-A-09345; GMPV11-1FR5P-0025
Seyedi, M.; Guy, N.; Rohmer, J.; Hild, F.
 Coupled hydromechanical modeling of the integrity and
 safety of geological storage of CO₂

GMPV14 Behavior of substance at extreme conditions in nature and laboratory

Convener: Perchuk, L.
 Co-Convener(s): Safonov, O.
 Lecture Room 21 (O)
 Chairperson: PERCHUK, L.

13:30–14:00; EGU2007-A-02044; GMPV14-1FR3O-001
Fortov, V.
 Intense shock waves for extreme states of matter generation
 (solicited)

14:00–14:15; EGU2007-A-00590; GMPV14-1FR3O-002
Bobrov, A.V.; Litvin, Yu.A.; Kojitani, H.; Akaogi, M.
 Formation of Na-bearing majoritic garnets in the Na₂O-
 MgO-CaO-Al₂O₃-SiO₂ system under extreme conditions of
 7 – 24 GPa and 1500 – 2000°C (solicited)

14:15–14:30; EGU2007-A-02758; GMPV14-1FR3O-003
Ono, S.
 Phase transition of CaCO₃ up to 200 GPa and 2600 K
 (solicited)

14:30–14:45; EGU2007-A-00412; GMPV14-1FR3O-004
Perchuk, A.; Burchard, M.; Maresch, W.V.; Schertl, H-P.
 Interaction of mineral Inclusions, Melt and Garnet host
 under ultrahigh Pressure Conditions

14:45–15:00; EGU2007-A-00044; GMPV14-1FR3O-005
Safonov, O.; Perchuk, L.; Litvin, Yu.
 Chloride-carbonate-silicate liquids at HP conditions: exper-
 iments and application to natural diamond-forming processes

15:00 END OF SESSION

GMPV14 Behavior of substance at extreme conditions in nature and laboratory – Posters

Convener: Perchuk, L.
 Co-Convener(s): Safonov, O.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 08:30–10:00
 Poster Area Hall A
 Chairperson: N.N.

A0026; EGU2007-A-00839; GMPV14-1FR1P-0026
 Nazzareni, S.; Comodi, P.; Bindi, L.; Safonov, O.; Per-
 chuk, L.; Litvin, Yu.
 X-ray single-crystal study on synthetic Si and Cl-rich mica:
 new implications on phlogopite and celadonite miscibility at
 high pressure (solicited)

A0027; EGU2007-A-00441; GMPV14-1FR1P-0027
Korsakov, A.V.; Hermann, J.
 The role of ultrapotassic liquids in metamorphic diamond
 genesis (solicited)

A0028; EGU2007-A-00756; GMPV14-1FR1P-0028
Shushkanova, A.; Litvin, Yu.; Dubrovinskaya, N.;
 Dubrovinsky, L.
 Melting relations of the model garnet-pyrrhotite-Ca-Mg-
 carbonate system compressed at 7 – 20 GPa: implications
 for diamond genesis (solicited)

A0029; EGU2007-A-01394; GMPV14-1FR1P-0029
Fel'dman, V.; Sazonova, L.; Kozlov, E.
 Mobility of chemical components by shock wave loading of
 rocks

A0030; EGU2007-A-00823; GMPV14-1FR1P-0030
Aranovich, L.; Kawasaki, T.
 Si-in-spinel geobarometry for ultramafics (solicited)

A0031; EGU2007-A-01848; GMPV14-1FR1P-0031
Zhu, C.; Zhu, D.
 The solubility of Pt and Au in silicate melt at high pressure

A0032; EGU2007-A-03480; GMPV14-1FR1P-0032
Lebedev, E.B.
 Experimental study of the migration and electro-capillarity
 effects on silicate, metal and sulfide phases segregation in
 centrifugal fields.

A0033; EGU2007-A-06541; GMPV14-1FR1P-0033
Speziale, S.; Reichmann, H.J.; Schilling, F.
 A new Brillouin Spectroscopy Laboratory for the Study of
 Minerals at High Pressures and Temperatures

A0034; EGU2007-A-09290; GMPV14-1FR1P-0034
Lemke, K.H.; Likholyot, A.; Seward, T.M.
 Quantum chemical calculations and experimental mea-
 surements of solvation processes in high-temperature
 low-density fluids (solicited)

Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00

GMPV Poster Area
 Chairperson: N.N.

GMPV15 Metamorphic and magmatic consequences of ultra-deep subduction

Convener: Gerya, T.
Co-Convener(s): Perchuk, L.
Lecture Room 21 (O)
Chairperson: GERYA, T.

15:30–15:45; EGU2007-A-04382; GMPV15-1FR4O-001
Tackley, P.; Nakagawa, T.; Connolly, J.; Deschamps, F.
Subduction of crust to the CMB and its role in explaining mantle heterogeneity (solicited)

15:45–16:00; EGU2007-A-01371; GMPV15-1FR4O-002
Wirth, R.; Vollmer, C.; Brenker, F.; Matsyuk, S.; Kamin-sky, F.
Nanoinclusions of phase Egg $\text{AlSiO}_3(\text{OH})$, in superdeep diamonds from Juina (Brazil): evidence for subduction of crustal components to earth's mantle transition zone

16:00–16:15; EGU2007-A-05236; GMPV15-1FR4O-003
Gorczyk, W.; Gerya, T. V.; Connolly, J. A.; Yuen, D. A.
Growth and mixing dynamics of mantle wedge plumes

16:15–16:30; EGU2007-A-05265; GMPV15-1FR4O-004
Castro, A.
The sublithospheric origin of batholiths (solicited)

16:30–16:45; EGU2007-A-03998; GMPV15-1FR4O-005
Massonne, H.-J.
Melting of metapelitic Rocks at ultrahigh Pressure (solicited)

16:45–17:00; EGU2007-A-01824; GMPV15-1FR4O-006
Brueckner, HK
Subduction of Continental Crust and the Origin of Syntec-tonic, Late Tectonic, Post Tectonic and Possibly Anorogenic Granites

17:00 COFFEE BREAK

Chairperson: PERCHUK, L.

17:30–17:45; EGU2007-A-04901; GMPV15-1FR5O-001
Burov, E.; Yamato, P.
Continental plate collision, P-T-t-z conditions and unstable vs. stable plate dynamics : Insights from thermo-mechanical modelling

17:45–18:00; EGU2007-A-06808; GMPV15-1FR5O-002
Yamato, P.; Burov, E.; Agard, P.; Le Pourhiet, L.; Jolivet, L.
What controls the presence of HP-UHP continental rocks in convergent zones? Application to the Western Alps

18:00–18:15; EGU2007-A-04878; GMPV15-1FR5O-003
Huet, B.; Labrousse, L.; Jolivet, L.; Smith, D.C.
HP-HT evolution of the Sunnmøre district, Western Gneiss Region (WGR), Norway: new constraints obtained with two independent methods

18:15–18:30; EGU2007-A-02236; GMPV15-1FR5O-004
Scambelluri, M.; Pettke, T.; van Roermund, H.L.M
Fluid-induced crystallization of majoritic garnet during Scandian continental subduction, Western Gneiss Region, Norway

18:30–18:45; EGU2007-A-07865; GMPV15-1FR5O-005
Bernard, S.; Beyssac, O.; **Chopin, C.;** Malavieille, J.; Meresse, F.
Aragonite: crystallographically oriented inclusions in blueschist/eclogite-facies garnet from Corsica

18:45–19:00; EGU2007-A-02485; GMPV15-1FR5O-006
Tong, L.; Jahn, B.-M.; Iizuka, Y.
First report on pigeonite exsolution in clinopyroxene in UHP mafic rocks from the North Dabie Complex (China) and its significance

19:00 END OF SESSION

GMPV15 Metamorphic and magmatic consequences of ultra-deep subduction – Posters

Convener: Gerya, T.
Co-Convener(s): Perchuk, L.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 08:30–10:00
Poster Area Hall A
Chairperson: GERYA, T.

A0035; EGU2007-A-00130; GMPV15-1FR1P-0035
Perchuk, L.L.; van Reenen, D.D.; Smit, C.A.; Boshoff, R.
Isobaric heating as a record of polymetamorphism (solicited)

A0036; EGU2007-A-01152; GMPV15-1FR1P-0036
Aranovich, L.; Novikov, G.; Fed'kin, V.
Potassium in eclogitic clinopyroxene: the role of ferric iron (solicited)

A0037; EGU2007-A-01682; GMPV15-1FR1P-0037
Gerasimov, V.Yu.
Thermochronological modelling of the Central Aldan metamorphism age (Eastern Siberia)

A0038; EGU2007-A-02552; GMPV15-1FR1P-0038
Schneider, J.; Jahn, B.-M.; Okamoto, K.; Tong, L.; Iizuka, Y.; Xu, Z.
A technique for calculation of accurate exhumation rates for UHP rocks: Rb/Sr isotope analyses of the CCSD eclogites (Sulu, China)

A0039; EGU2007-A-02634; GMPV15-1FR1P-0039
Faccenda, M.; Gerya, T.; Chakraborty, S.
Numerical modeling of deep continental crust subduction

A0040; EGU2007-A-03233; GMPV15-1FR1P-0040
Volodichev, O.I.
Archean and Paleoproterozoic eclogites from the Belomorian Mobile Belt, Fennoscandian Shield

Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00

Poster Area Hall A
Chairperson: PERCHUK, L.

A0041; EGU2007-A-03838; GMPV15-1FR2P-0041
Hack, A. C.; Thompson, A. B.
Pressure-temperature paths, fluid flow and metasomatism above subduction zones

A0042; EGU2007-A-04167; GMPV15-1FR2P-0042
Aerts, M.; Hack, A. C.; Thompson, A. B.; Ulmer, P.
Mineral-buffered fluid compositions in $\text{K}_2\text{O}-\text{Al}_2\text{O}_3-\text{SiO}_2-\text{H}_2\text{O}$ to 2.0 GPa and 800°C as measured by the diamond-trap method.

A0043; EGU2007-A-04943; GMPV15-1FR2P-0043
Podlesskii, K.K.
Sapphirine-bearing assemblages as indicators of metamorphic conditions

A0044; EGU2007-A-05241; GMPV15-1FR2P-0044
Gorczyk, W.; Willner, A. P.; Gerya, T. V.; Connolly, J. A.; Burg, J.-P.
Physical controls of magmatic productivity at Pacific-type convergent margins: Numerical modelling

A0045; EGU2007-A-05486; GMPV15-1FR2P-0045
Nikolaeva, K.; Gerya, T.V.; Connolly, J.A.D
Numerical modelling of intraoceanic volcanic arc develop-ment

A0046; EGU2007-A-09508; GMPV15-1FR2P-0046
Cantieni, C; Fossati, F; Gerya, G; Seward, S
 Subduction of an aseismic ridge under an active margin: 1) topographic evolution and effects of slab density.

A0047; EGU2007-A-09554; GMPV15-1FR2P-0047
Fossati, F; Cantieni, C; Gerya, G; Seward, S
 Subduction of an aseismic ridge under an active margin: 2) effects of plate velocity and dynamics of wedge melting.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 13:30–15:00

GMPV Poster Area
 Chairperson: PERCHUK, L.

Geodesy

G4/GD17 What constraints do earth rotation, shape, and gravity measurements place on the dynamical processes of the solid earth? (co-organized by GD)

Convener: Gross, R.
 Co-Convener(s): Plag, H.
 Lecture Room 6 (K)
 Chairperson: GROSS, R.

8:30–8:45; EGU2007-A-10577; G4/GD17-1FR10-001
Rothacher, M.; Neilan, R.; Plag, H.P.
 GGOS: the Global Geodetic Observing System (solicited)

8:45–9:00; EGU2007-A-06363; G4/GD17-1FR10-002
Thaller, D.; Krügel, M.; Meisel, B.; Artz, T.; Steigenberger, P.; Tesmer, V.; Wünsch, J.; Rothacher, M.
 Long time-series of GPS- and VLBI-derived EOP consistently combined including the TRF

9:00–9:15; EGU2007-A-04743; G4/GD17-1FR10-003
Wu, X.; Dong, D.; Ivins, E.; Owen, S.; Bettadpur, S.; Ries, J.
 Solid Earth signatures of surface mass variations and improved global monitoring using multi-satellite data combination (solicited)

9:15–9:30; EGU2007-A-04506; G4/GD17-1FR10-004
Gross, R. S.; Blewitt, G.; Clarke, P. J.; Lavallée, D.
 Low-degree surface mass loads estimated from geodetic measurements and geophysical models

9:30–9:45; EGU2007-A-09625; G4/GD17-1FR10-005
Korbacz, A.; Brzezinski, A.; Thomas, M.
 Atmospheric and nontidal oceanic excitation of polar motion estimated from the output of the models ERA-40 and OMCT

9:45–10:00; EGU2007-A-00974; G4/GD17-1FR10-006
Grötzsch, A.; Thomas, M.; Dobslaw, H.
 Operational estimates of transient hydrospheric effects on Earth rotation parameters

10:00 COFFEE BREAK

Chairperson: GROSS, R.

10:30–10:45; EGU2007-A-04697; G4/GD17-1FR2O-001
Petrov, L.; Bizouard, Ch.
 VLBI Intensive observations for UT1: accuracy and usability

10:45–11:00; EGU2007-A-04197; G4/GD17-1FR2O-002
Englich, S.; Mendes Cerveira, P.J.; Weber, R.; Schuh, H.
 Tidal variations in length of day and UT1 observed with GPS and VLBI – Impact of different processing strategies

11:00–11:15; EGU2007-A-08086; G4/GD17-1FR2O-003
Capitaine, N.; Bourda, G.; Zerhouni, W.
 Precession-nutation and the Earth's dynamical flattening

11:15–11:30; EGU2007-A-03787; G4/GD17-1FR2O-004
Vondrak, J.
 Determination of the Earth fluid core flattening from resonance effects in nutation as observed by VLBI

11:30–11:45; EGU2007-A-02946; G4/GD17-1FR2O-005
Rosat, S.; Florsch, N.; Hinderer, J.; Llubes, M.
 A comparison between Bayesian and least-squares method for the inversion of the FCN parameters

11:45–12:00; EGU2007-A-09875; G4/GD17-1FR2O-006
Brzezinski, A.; Korbacz, A.; Thomas, M.
 Geophysical excitation of the free core nutation: comparison of results from two different models of the atmospheric and oceanic angular momenta

12:00 END OF SESSION

Geodynamics

GD05 The Origins of Melting Anomalies

Convener: Foulger, G.
 Co-Convener(s): Sobolev, A.
 Lecture Room 23
 Chairperson: N.N.

8:30–8:45; EGU2007-A-04625; GD05-1FR10-001
Foulger, G.R.
 The “Plate” model for the genesis of melting anomalies

8:45–9:00; EGU2007-A-10146; GD05-1FR10-002
Phipps Morgan, J.; Morgan, W. J.
 Several plume ‘paradoxes’ can be resolved by a plume-fed asthenosphere

9:00–9:30; EGU2007-A-00436; GD05-1FR10-003
Presnall, D.; Gudfinnsson, G.
 Global Na8-Fe8 Systematics of MORBs: Implications for Mantle Heterogeneity, Temperature, and Plumes (solicited)

9:30–9:45; EGU2007-A-05374; GD05-1FR10-004
Burov, E.; Guillou-Frottier, L.; Cloetingh, S.
 Plume head –lithosphere interactions near intra-continental plate boundaries. (solicited)

9:45–10:00; EGU2007-A-04521; GD05-1FR10-005
Morgan, W.J.; Phipps Morgan, J.
 Mantle plumes and the Pacific superswell

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-04613; GD05-1FR2O-001
Pilet, S.; Baker, M.B.; Stolper, E.M.
 Experimental constraints on the origin of OIBs

10:45–11:00; EGU2007-A-01737; GD05-1FR2O-002
Lustrino, M.; Carminati, E.
 Phantom plumes in Europe and the circum-Mediterranean region (solicited)

11:00–11:15; EGU2007-A-00632; GD05-1FR2O-003
Keskin, M.
 Slab-steepening & breakoff: an alternative shallow-plate tectonic model for the genesis of plume-like melting anomalies in continental intraplate settings (solicited)

11:15–11:30; EGU2007-A-04990; GD05-1FR2O-004
Timm, C.; Hoernle, K.; Hauff, F.; van den Bogaard, P.; Weaver, S.
 Crustal Assimilation versus Mantle Melts in Lavas from Banks Peninsula, NZ

11:30–11:45; EGU2007-A-02486; GD05-1FR2O-005
Ivanov, A.V.
 Geochemistry of Dominant Low-Ti Basalts of the Siberian Traps and Subduction-Related Model of Their Origin (solicited)

11:45–12:00; EGU2007-A-11507; GD05-1FR2O-006
Comin-Chiaromonti, P.; de Barros Gomes, C.; Cundari, A.; Castorina, F.; Censi, P.
 A review of carbonatitic magmatism in the Paraná-Angloa-Etendeka system

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2007-A-04388; GD05-1FR3O-001
Torsvik, T.H.; Smethurst, M.A.; Burke, K.; Steinberger, B.
 Long term stability in Deep Mantle structure: Evidence from the ~ 300 Ma Skagerrak-Centered Large Igneous Province (the SCLIP)

13:45–14:00; EGU2007-A-09281; GD05-1FR3O-002
Meyer, R.; van Wijk, J.W.; Gernigon, L.
 Formation of the North Atlantic Igneous Province: what is the role of the Iceland mantle anomaly?

14:00–14:15; EGU2007-A-04028; GD05-1FR3O-003
Kumagai, I.; Davaille, A.; Kurita, K.
 Successful and failing plumes: the Icelandic case

14:15–14:30; EGU2007-A-09580; GD05-1FR3O-004
Bjarnason, I. Th
 The seismic low velocity of Iceland's mantle. The shape of a thermal and melt anomaly

14:30–14:45; EGU2007-A-00466; GD05-1FR3O-005
Rasskazov, S.; Chuvashova, I.; Kozhevnikov, V.; Mordvinova, V.
 Magmatic dynamics of the Sayan-Mongolian Late Cenozoic low-velocity mantle domain, Central Asia (solicited)

14:45–15:00; EGU2007-A-11008; GD05-1FR3O-006
Gu, Y.J.; An, Y.
 Complexities in the Upper Mantle Transition Zone Beneath Hotspot Locations (solicited)

15:00 END OF SESSION

GD20 Cretaceous-Tertiary Plate Kinematics, Continental Breakup and Sea-Floor Spreading History of the Northern North Atlantic and Arctic Ocean – Posters

Convener: Kuszniir, N.
 Co-Convener(s): Sibuet, J., Chalmers, J.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 08:30–10:00
 Poster Area Hall A
 Chairperson: SIBUET, J.

A0048; EGU2007-A-01638; GD20-1FR1P-0048
Chalmers, J.; Oakey, G.
 Cretaceous-Palaeogene development of Labrador Sea and Davis Strait (solicited)

A0049; EGU2007-A-11345; GD20-1FR1P-0049
Enachescu, M.E.; Einarsson, P.H.
 Trans-Labrador Sea modern reflection data show unorthodox rift

A0050; EGU2007-A-03466; GD20-1FR1P-0050
Alvey, A.; Gaina, C.; Kuszniir, N.J.; Torsvik, T.H.
 Arctic Plate Reconstructions & Predicted Crustal Thickness from Gravity Inversion

A0051; EGU2007-A-09706; GD20-1FR1P-0051
Faleide, J.I.; Engen, O.; Tsikalas, F.; Breivik, A.J.; Ritzmann, O.
 Opening of the northern North Atlantic and formation of the sheared western Barents Sea-Svalbard and NE Greenland margins (solicited)

A0052; EGU2007-A-07342; GD20-1FR1P-0052
Gernigon, L.; Olesen, O.; Ebbing, J.; Wienecke, S.; Myklebust, R.
 Syn-and post-breakup magmato-tectonic evolution of the mid-Norwegian margin

A0053; EGU2007-A-07388; GD20-1FR1P-0053
Greenhalgh, E.; Kuszniir, N.
 Thin oceanic crust on the extinct Aegir Ridge, Norwegian Basin, N.E. Atlantic predicted by satellite gravity inversion

A0054; EGU2007-A-03723; GD20-1FR1P-0054
Paquette, J.-L.; **Sigmarsson, O.;** Tiepolo, M.
 Mesozoic zircons in Miocene ignimbrite from E-Iceland: a splinter of a continental crust?

A0055; EGU2007-A-07759; GD20-1FR1P-0055
Chappell, A.R.; Kuszniir, N.J.
 Northern N. Atlantic rifted margin crustal thickness and OCT location from satellite gravity inversion incorporating a lithosphere thermal gravity anomaly correction

A0056; EGU2007-A-09087; GD20-1FR1P-0056
Rousse, S.; Ganerød, M.; Smethurst, M.A.; Torsvik, T.H.; Prestvik, T.
 The British Tertiary Volcanics : origin, history and new paleogeographic constraints for the North Atlantic

A0057; EGU2007-A-11343; GD20-1FR1P-0057
Robertson, A.H.F
 Continental break-up of the Newfoundland rifted margin (ODP Leg 210): L. Cretaceous seafloor formed by exhumation of subcontinental mantle lithosphere and the transition to seafloor spreading

A0058; EGU2007-A-08059; GD20-1FR1P-0058
Nielsen, S.B.; Stephenson, R.; Thomsen, E.
 The North Atlantic and African plate margins of Europe dynamically linked by Paleocene intraplate deformation

Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00

GD Poster Area
 Chairperson: N.N.

Geomorphology

GM24 GEOMATICS applications in GEOMORPHOLOGY: new technologies for the improvement of an "old" science

Convener: MANZONI, G.
 Co-Convener(s): Giardino, M., Tamburini, A.
 Lecture Room 17 (M)
 Chairperson: N.N.

8:30–8:45; EGU2007-A-03054; GM24-1FR1O-001

Salvini, R; Fantozzi, P.L.

Potential soil loss computation in the Crete Senesi area (Siena, Italy) from high resolution remote sensing and digital photogrammetry

8:45–9:00; EGU2007-A-05256; GM24-1FR1O-002

Lee, S.T.; Yu, T.T.; Wang, C.L.; Peng, W.F

Use of airborne LiDAR derived digital elevation model in automated geological lineaments extraction

9:00–9:15; EGU2007-A-07424; GM24-1FR1O-003

Borlat, C.; Epard, J.-L.; Jaboyedoff, M.

Use of a Laser-DTM for geological survey, structural interpretation and update of existing maps: example in the Jura mountains (Switzerland)

9:15–9:30; EGU2007-A-08565; GM24-1FR1O-004

GARITTES, G.; LAHOUSSE, P.; **MASSON, E.;** THENARD, L.

Multiresolution data and object oriented classification in torrential risk analysis: application to the Guisane Valley (Southern Alps, France)

9:30–9:45; EGU2007-A-01721; GM24-1FR1O-005

Melelli, L.; Taramelli, A.

Spatial modelling of slide phenomena integrating multi-temporal remote sensing and GIS to terrain stability mapping

9:45–10:00; EGU2007-A-05274; GM24-1FR1O-006

DE, S. K.

A comparative study between the BIS method and the proposed method of landslide hazard zonation in the hilly tract of the Balasan Basin of Darjiling Himalayas, India.

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-02247; GM24-1FR2O-001

Embleton-Hamann, C.

The Relevance of Geomorphology in interdisciplinary Assessment of Scenic Resource Value

10:45–11:00; EGU2007-A-05960; GM24-1FR2O-002

Su, J.Y.; Yu, T.T.

Automatic recognizing rice field and economic plantation field with FORMOSAT-2 imagery

11:00–11:15; EGU2007-A-02798; GM24-1FR2O-003

Rieke-Zapp, D.; Schlunegger, F.

The Ping Pong method

11:15–11:30; EGU2007-A-07383; GM24-1FR2O-004

Lane, S.N.; Widdison, P.E.; Ashworth, P.J.; Best, J.L.; Bridge, J.S.; Lunt, I.; Sambrook-Smith, G.; Thomas, R. High resolution survey of wide sand-bedded braided river dynamics using combined digital photogrammetry and image processing

11:30–11:45; EGU2007-A-07945; GM24-1FR2O-005

Herrera, G.; Galahad Team

Landslide Remote Sensing Monitoring: Formigal case study (Huesca, Spain)

11:45–12:00; EGU2007-A-07718; GM24-1FR2O-006

Tamburini, A.; Deline, P.; Jaillet, S.; Mortara, G.; Conforti, D.

Application of terrestrial scanning LIDAR to study the evolution of ice-contact Miage Lake and Miage Glacier ice cliff (Mont Blanc massif, Italy)

12:00 END OF SESSION

Geosciences Instrumentation and Data Systems

GI5 Space Instrumentation (co-listed in PS, ST, AS, G & OS) – Posters

Convener: Leese, M.

Co-Convener(s): Kargl, G.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: LEESE, M.

XY0292; EGU2007-A-06915; GI5-1FR2P-0292

Trautner, R.; Zender, J.; Svedhem, H.; Schulz, R.; Barthelemy, M

Automated provision of PDS compatible science data and instrument calibration support data for the Venus Express and Rosetta Science Teams

XY0293; EGU2007-A-05104; GI5-1FR2P-0293

Stocky, J. F.; Stevens, C. M.; **Nelson, R. M.**

NASA's New Millennium ST-9 Mission

XY0294; EGU2007-A-06947; GI5-1FR2P-0294

Dedieu, G.; Karnieli, A.; Hagolle, O.; Jeanjean, H.; Cabot, F.; Ferrier, P.; Yaniv, Y.

The VEN μ S mission: Earth observation with high spatial and temporal resolution capabilities

XY0295; EGU2007-A-08979; GI5-1FR2P-0295

Gommenginger, C.P.; Challenor, P.G.; Quartly, G.D.; Srokosz, M.A.; Berry, P.; Rogers, C.; **Benveniste, J.**

ENVISAT altimeter individual echoes: new scientific applications for ocean, land and ice remote sensing

XY0296; EGU2007-A-10928; GI5-1FR2P-0296

Taylor, E.A.; Ball, A.J.; Barber, S.J.; Miljkovic, K.; McBride, N.; Sheridan, S.; Wright, I.P.; Zarnecki, J.C.; Hillier, J.K.

A combined dust impact detector and ion trap mass spectrometer for a Europa orbiter

XY0297; EGU2007-A-09246; GI5-1FR2P-0297

Pope, S.; Zhang, T.; Balikhin, M.; Delva, M.; Hvizdo, L.; Kudela, K.; Alleyne, H

Methods developed to identify and remove spacecraft generated magnetic fields from Venus Express magnetometer data

XY0298; EGU2007-A-08789; GI5-1FR2P-0298

O'Brien, H.; Brown, P.; Carr, C.; Horbury, T.; Oddy, T.; Beek, T

Digital, tuned, FPGA based fluxgate magnetometer for the Solar Orbiter Mission

XY0299; EGU2007-A-03182; GI5-1FR2P-0299

Coillot, C.; Leroy, P.; Mosser, V.; Roux, A.; **Chanteur, G.M.** Wide band compound magnetometer : a new instrument to investigate magnetic field component of plasma waves

XY0300; EGU2007-A-07877; GI5-1FR2P-0300

Masson, A.; Decreau, P.; Fazakerley, A.; Andre, M.; Laakso, H.; Rochel, A.; Escoubet, P.; Taylor, M.; Asnes, A. Electron density estimation in the Earth's magnetotail by cross-calibrating different plasma experiments of the Cluster mission

XY0301; EGU2007-A-02840; GI5-1FR2P-0301

Wieser, M.; Barabash, S.; Emanuelsson, M.; Brinkfeldt, K.; Enocksson, P.

PRIMA: a micromechanical shutter based ion mass spectrometer

XY0302; EGU2007-A-09170; GI5-1FR2P-0302
Di Lellis, A.M.; Orsini, S.; Selci, S.; Leoni, R.; De Angelis, E.; Milillo, A.; Mura, A.; Dandouras, I.; Mattioli, F.
 Low energy high angular resolution neutral atom detection by means of micro-shuttering techniques

XY0303; EGU2007-A-00678; GI5-1FR2P-0303
Korepanov, V.; Klimov, S.
 Wave Probe – a new instrument for space research

XY0304; EGU2007-A-04499; GI5-1FR2P-0304
Krasnoselskikh, V.; Dudok de Wit, T.; Pincon, J.-L.; Lefevre, F.; Korepanov, V.; Kryuchkov, E.; de Feraudy, H.; Chabassiere, M.; Ferreau, P.; Seran, H.-C.; Rogowski coil team
 Direct in situ Measurements of Current Density Variations in the Ionosphere by Using the Current Density Probe Rogowski Coil Onboard Sych M Satellite

XY0305; EGU2007-A-01689; GI5-1FR2P-0305
Devasthale, A.; Grassl, H.
 Can orbital drift of satellites introduce spurious trends? An example of NOAA-N series

GI6/PS1.3 Planetary Imaging Systems - Design, Implementation, and Results (co-organized by PS, co-listed in ST) – Posters

Convener: Thomas, N.
 Co-Convener(s): Smith, P.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0306; EGU2007-A-02847; GI6/PS1.3-1FR2P-0306
Allemand, P.; Gasperini, D.
 Analysis of roughness of lava flow by optical remote sensing data : example of the Etna volcano imaged by ASTER

XY0307; EGU2007-A-04938; GI6/PS1.3-1FR2P-0307
Lüthi, B.S.; Thomas, N.; Hofmann, B.A.; Bibring, J.-P.; Smith, P.
 Planetary microscope design concepts (solicited)

XY0308; EGU2007-A-06137; GI6/PS1.3-1FR2P-0308
Cremonese, G.; STC-AIMBIOSYS international team
 New approach for the stereo camera on the ESA mission BepiColombo

XY0309; EGU2007-A-08490; GI6/PS1.3-1FR2P-0309
Coradini, A.; Adriani, A.; Filacchione, G.; Lunine, J.I.; Cossi, M.; Tommasi, L.; Magni, G.; Orosei, R.
 JIRAM, the image spectrometer in the near infrared proposed to NASA for joining to the Juno Mission to Jupiter

XY0310; EGU2007-A-11493; GI6/PS1.3-1FR2P-0310
Tomasko, M.
 Results from DISR (solicited)

GI7/PS1.2 Planetary Landers and Instrumentation (co-organized by PS) – Posters

Convener: Falkner, P.
 Co-Convener(s): Harri, A., Barnes, D.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0594; EGU2007-A-10130; GI7/PS1.2-1FR2P-0594
Ransom, S.; Richter, L.
 Scientific Surveys with Planetary Aerial Vehicles

XY0595; EGU2007-A-10638; GI7/PS1.2-1FR2P-0595
Schmitz, N.; Richter, L.; Weiß, S.
 MER Physical Properties Experiments - Inferring Mars Soil Strength Properties from Rover Traction Performance along MER Rover Traverses

XY0596; EGU2007-A-10815; GI7/PS1.2-1FR2P-0596
Barnes, D.P.
 The ExoMars Rover Inspection Mirror (RIM): New opportunities for Mars surface science

XY0311; EGU2007-A-10748; GI7/PS1.2-1FR2P-0311
Ball, A.J.; Garry, J.R.C.; Lorenz, R.D.; Kerzhanovich, V.V.
 Planetary Landers and Entry Probes

XY0312; EGU2007-A-06089; GI7/PS1.2-1FR2P-0312
Valavanoglou, A.; Oberst, M.; Magnes, W.; Neubauer, H.; Hauer, H.; Baumjohann, W.; Falkner, P.
 Magnetometer Front-end ASIC (MFA)

XY0313; EGU2007-A-06215; GI7/PS1.2-1FR2P-0313
Wurz, P.; Whitby, J.A.; Managadze, M.
 In Situ Mass Spectrometry of Planetary Surfaces

XY0314; EGU2007-A-09239; GI7/PS1.2-1FR2P-0314
Richter, L.; Coste, P.; Grzesik, A.; Knollenberg, J.; Nadalini, R.; Re, E.; Romstedt, J.; Schmitz, N.; Sohl, F.; Spohn, T.
 Instrumented Moles for Planetary Subsurface Regolith Studies

XY0315; EGU2007-A-03901; GI7/PS1.2-1FR2P-0315
Paar, G.; Oberst, J.; Barnes, D.P.; Griffiths, A.D.; Jau-mann, R.; Coates, A.J.; Muller, J.P.; Gao, Y.; Li, R.
 Requirements and Solutions for ExoMars Rover Panoramic Camera 3D Vision Processing

XY0316; EGU2007-A-10323; GI7/PS1.2-1FR2P-0316
Knollenberg, J.; Nadalini, R.; Spohn, T.
 Thermal measurements with HP3/TEM on ExoMars

XY0317; EGU2007-A-11419; GI7/PS1.2-1FR2P-0317
Spencer, M.K.; PSS Study Team
 A Student-Designed Approach to ESA's ExoMars Mission

XY0318; EGU2007-A-05109; GI7/PS1.2-1FR2P-0318
Abakians, H.; Bothwell, M.; Chmielewski, A. B.; **Nelson, R. M.;** Stevens, C. M.; Ku, J.; McEachen, M. E.; White, S.; Samson, J. R.; Zsoldos, J.
 NASA's New Millennium ST8 Project

GI10 Informatics: distributed information systems - technology and applications (co-listed in AS, CL, G, CR, GD, GM, GMPV, HS, MPRG, OS, PS, ST, SM, TS, SSP, SSS & NH)

Convener: Ritschel, B.
 Co-Convener(s): Fox, P.
 Lecture Room 29
 Chairperson: N.N.

8:30–8:45; EGU2007-A-10847; GI10-1FR1O-001
Snyder, W.S.; Lehnert, K.
 Community infrastructure and market place for geoinformatics

8:45–9:00; EGU2007-A-02467; GI10-1FR1O-002
Kaminski, M.; Judy, C.; Fetterer, F.; Scott, D
 Scientific Data Management: Options for Research Projects

9:00–9:15; EGU2007-A-08453; GI10-1FR1O-003
Ritschel, B.; ISDC TEAM
 Interoperability in geosciences – networking of metadata, data and applications

9:15–9:30; EGU2007-A-03184; GI10-1FR1O-004
Stockhause, M.; Kindermann, S.; Ramthun, H.
 Data Networking in Earth System Sciences (C3-Grid)

9:30–9:45; EGU2007-A-03858; GI10-1FR1O-005
Som de Cerff, W.; Petitdidier, M.; Lonjaret, M.; Hluchy, L.;
 Fusco, L.; Linford, J.; Schwichtenberg, H.; Zhinzhin, M.;
 Renard, P.; Tran, V.
 Dissemination and exploitation of Grids in earth science

9:45–10:00; EGU2007-A-07510; GI10-1FR1O-006
Moder, C.; Bunge, H.-P.; Igel, H.; Schuberth, B.
 Visualisation of large datasets with Paraview

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-00058; GI10-1FR2O-001
Bulow, K
 Success Factors in Establishing National Data Centers

10:45–11:00; EGU2007-A-02328; GI10-1FR2O-002
 Zhang, Y.; Kihlman, M.; Rivera, C.; Johansson, M.;
Galle, B.; Morales, A.; Herrera, M.; Strauch, W.; Zamar-
 ripa, C. M.; Granados, H.D.
 Global wireless sensor network for volcano gas monitoring

11:00–11:15; EGU2007-A-08458; GI10-1FR2O-003
Bose, R.; McGarva, G.
 Safeguarding the Citation Lifecycle for Global Geospatial
 Repositories

11:15–11:30; EGU2007-A-02518; GI10-1FR2O-004
Diviaco, P
 Seismic data and Geosciences Infrastructures for Scientific
 Research.

11:30–11:45; EGU2007-A-03498; GI10-1FR2O-005
Horn, N.; Pesaresi, D.; Costa, G.; Zivcic, M.
 Testing the Antelope software suite to realize a distributed
 seismic database among Austria, Northeastern Italy and
 Slovenia

11:45–12:00; EGU2007-A-07531; GI10-1FR2O-006
 Hosseini, S. M.; **Kholghi, M.**
 Estimation of aquifer transmissivity using kriging, artificial
 neural network, and neuro-fuzzy models

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2007-A-01258; GI10-1FR3O-001
Tchistiakov, A.; Jellema, J.; Schubert, G.; Heylen, C.;
 Capova, D.; Belickas, J.; Rotar-Szalakai, A.; Ballofet, E.;
 Heirman, A.; Rodríguez, J.
 eWater : the European distributed hydrogeological informa-
 tion system

13:45–14:00; EGU2007-A-02914; GI10-1FR3O-002
Cander, Lj.; Belehaki, A.; Zolesi, B.; Bremer, J.; Juren, C.;
 Stanislawski, I.; Dialeis, D.; Hatzopoulos, M.
 The DIAS system: A distributed information system for
 monitoring, predicting and forecasting ionospheric condi-
 tions over Europe

14:00–14:15; EGU2007-A-11502; GI10-1FR3O-003
Bentley, R.; EGSO team, the
 EGSO - A Tool for the Solar Community

14:15–14:30; EGU2007-A-03705; GI10-1FR3O-004
Carraro, F.
 Web archive for planetary data

14:30–14:45; EGU2007-A-04427; GI10-1FR3O-005
Schroeder, P.; Szabo, A.; Narock, T.; Davis, A.; Ho, G.;
 Kasper, J.; Raines, J.; Roberts, A.; Vandegriff, J.
 Taming the data wilderness with the VHO: Integrating
 heliospheric data sets

14:45–15:00; EGU2007-A-09487; GI10-1FR3O-006
Euchner, F.; Schorlemmer, D.; Becker, J.; Heinloo, A.;
 Kästli, P.; Saul, J.; Weber, B.; Wiemer, S.; Wössner, J.
 QuakeML–XML concepts for a European seismological
 data exchange infrastructure

15:00 END OF SESSION

**GI10 Informatics: distributed information systems -
 technology and applications (co-listed in AS, CL, G, CR,
 GD, GM, GMPV, HS, MPRG, OS, PS, ST, SM, TS, SSP,
 SSS & NH) – Posters**

Convener: Ritschel, B.
 Co-Convener(s): Fox, P.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 15:30–17:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0319; EGU2007-A-02204; GI10-1FR4P-0319
Höck, H.; Waszkewitz, S.; Toussaint, F.; Lautenschlager, M.
 Publication and Citation of Scientific Primary Data at WDC
 Climate

XY0320; EGU2007-A-03373; GI10-1FR4P-0320
Klump, J.; Conze, R.; Wächter, J.
 Data Publication through the Scientific Drilling Database

XY0321; EGU2007-A-06276; GI10-1FR4P-0321
Huber, R.; Klump, J.
 TaxonRank a synonymy ranking algorithm for earth science
 data networks

XY0322; EGU2007-A-04437; GI10-1FR4P-0322
Toussaint, F.; Lautenschlager, M.
 World Data Center for Climate: Web Based Data Access

XY0323; EGU2007-A-08042; GI10-1FR4P-0323
Palm, H.
 Personalized delivery from millions of data

XY0324; EGU2007-A-10300; GI10-1FR4P-0324
Chiodetti, A.G.; Ferrara, G.; Cascone, M.; Leone, F.;
 Barba, S.; Baroux, E.; Basili, R.; De Martini, P. M.
 Earth-prints: a digital tool to share Geosciences information
 and data

XY0325; EGU2007-A-06916; GI10-1FR4P-0325
Farnaghi, M.; Mansourian, A
 Development of a Typical WMS for Disaster Management
 SDI of Iran

XY0326; EGU2007-A-07115; GI10-1FR4P-0326
 Sheleiby, M; **Farnaghi, M.;** Malek, M R; Alesheikh, A A
 Design and Development of Typical Mobile GIS for Disaster
 Management

XY0327; EGU2007-A-02542; GI10-1FR4P-0327
 Diviaco, P
 Data Systems and the social aspects of Scientific Research

XY0328; EGU2007-A-07544; GI10-1FR4P-0328
Balestro, G.; Bruciatelli, L.; De Donatis, M.; Piana, F.
 Conceptual tools for the management of geological interpre-
 tations in GIS databases

XY0329; EGU2007-A-08788; GI10-1FR4P-0329
Fazliev, A.Z.; Starchenko, V.A.; **Lavrent'ev, N.A.**;
Vrazhov, D.A.
Global and regional climate models in the Atmos web-portal

XY0330; EGU2007-A-11080; GI10-1FR4P-0330
Amirian, P
Using XML database systems and GML in the context of
Geospatial Web services

XY0331; EGU2007-A-11174; GI10-1FR4P-0331
Agarwal, D; Baldocchi, D; van Ingen, C
A Next Generation Flux Network Data Server

XY0332; EGU2007-A-05284; GI10-1FR4P-0332
Centella, A.; Bezanilla, A.; Borrajero, I.; Jones, R.; **Intsi-
ful, J.**
A PRECIS internet-based climate data provision system
for climate change impacts, vulnerability and adaptation
research in Central America and the Caribbean regions

XY0333; EGU2007-A-05481; GI10-1FR4P-0333
Stergiopoulos, C.; Tsiakas, P.; Stavrakas, I.; Anastasiadis, C.;
Triantis, D.; Vallianatos, F.
MILDMAP MEDIA* : A geoenvironmental data exchange
information system.

XY0334; EGU2007-A-09413; GI10-1FR4P-0334
Conte, D.; Marra, G.P.; Parmiggiani, F.; Quarta, G.
A prototype of information system for remotely sensed data
management developed using Open Source technologies

XY0335; EGU2007-A-10774; GI10-1FR4P-0335
Zeilinger, G.; Burg, J.-P.
Images of geologic structures served by a relational digital
image database (DioGeneS)

XY0336; EGU2007-A-10903; GI10-1FR4P-0336
Breen, P; Judge, D; Kirsch, P
Accessing oceanographic data using a geo-browser

XY0337; EGU2007-A-11066; GI10-1FR4P-0337
Kiani, T.; Barrier, E.; Brunet, M-F.; Saidi, A.
Tectonic database structure of Iran (case studies: Baladeh &
Kermanshah areas in Alborz & Zagros mountains)

XY0338; EGU2007-A-07516; GI10-1FR4P-0338
Batanov, O; **Mogilevsky, M;** Nazarov, V; Parrot, M;
Lagoutte, D; Brochot, J-Y
Distributed processing system of heterogeneous data for
DEMETER mission

XY0339; EGU2007-A-08903; GI10-1FR4P-0339
Fox, P.; Cinquini, L.; McGuinness, D.; West, P.; Garcia, J.;
Benedict, J.; Darnell, J.A.; Middleton, D.
The Production Virtual Solar-Terrestrial Observatory: Se-
mantic Web in Practice.

XY0340; EGU2007-A-07755; GI10-1FR4P-0340
Neuhaus, P.; Klar, C.; Schneider, K.
An object-oriented framework for a process-based soil-
nitrogen model component

XY0341; EGU2007-A-10396; GI10-1FR4P-0341
Petitdidier, M.; Weissenbach, D.; Som de Cerff, W.;
Schwichtenberg, H.
EGEE, Grid infrastructure for geosciences data services

XY0342; EGU2007-A-10777; GI10-1FR4P-0342
Kirsch, P; Breen, P
Retrieval, examination and dissemination of Antarctic data

XY0343; EGU2007-A-00808; GI10-1FR4P-0343
Bochneva, A.; Bardeeva, E.
Methods of data reducing for regional mineralogical map-
ping

XY0344; EGU2007-A-01906; GI10-1FR4P-0344
Bykov, A.D.; **Fazliev, A.Z.**; Filippov, N.N.; Sinitsa, L.N.;
Tonkov, M.V.; Tretyakov, M.Yu.; Privezetsev, A.I.; Kozo-
dov, A.V.
Distributed information system on atmospheric spectroscopy

Hydrological Sciences

HS7 Subsurface flow, solute transport, and energy pro- cesses: concepts, modelling, and observations – Posters

Convener: Elliot, T.
Co-Convener(s): Zechner, E.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00
Poster Area Hall A
Chairperson: N.N.

A0059; EGU2007-A-02750; HS7-1FR2P-0059
Schneider, K.; Ippisch, O.; Roth, K.
Parameter estimation analysis of the novel evaporation
experiment for determining soil hydraulic properties

A0060; EGU2007-A-06653; HS7-1FR2P-0060
Cerepi, A; **Loisy, C;** Burlot, R; Mao, LS
Monitoring of water and thermic transfers in the vadose zone
of a geological carbonate formation

A0061; EGU2007-A-07329; HS7-1FR2P-0061
Belfort, B.; Lehmann, F.; Ackerer, P.; Younes, A.
Adaptive time stepping scheme for numerical modelling of
unsaturated flow

A0062; EGU2007-A-06061; HS7-1FR2P-0062
Hardelauf, H.; Javaux, M.; Herbst, M.; Gottschalk, S.;
Kasteel, R.; **Vanderborght, J.**; Vereecken, H.; Simunek, J.
PARSWMS: a parallelized model for simulating 3-D water
flow and solute transport in soils

A0063; EGU2007-A-06085; HS7-1FR2P-0063
Vanderborght, J.; Vereecken, H.
Transport in heterogeneous flow fields with depth-dependent
sorption and decay parameters

A0064; EGU2007-A-10742; HS7-1FR2P-0064
Nemcova, R.; Zúmr, D.; Císlarová, M.
Effect of the preferential flow on the soil water balance

A0065; EGU2007-A-08661; HS7-1FR2P-0065
Pavelková, H.; Dohnal, M.; Vogel, T.
Comparison of several conceptually different approaches to
subsurface runoff modeling at the hillslope scale

A0066; EGU2007-A-00804; HS7-1FR2P-0066
Al-Qurashi, A. M; Macintyre, N.; Wheeler, H
Rainfall-Runoff Modelling using KINEROS Model

A0067; EGU2007-A-08374; HS7-1FR2P-0067
Racine, C.; **Paniconi, C.**; Lefebvre, R.; Leclerc, M.;
Pinard, D.
Subsurface modeling of a riverbed filtration system: in-
fluence of local hydraulic conductivity, stream levels, well
placement, and pore clogging

A0068; EGU2007-A-07326; HS7-1FR2P-0068
Dagès, C.; Voltz, M.; Ackerer, P; Floure, C.; Fabre, J.C.
Three-dimensional modelling of groundwater recharge
pathways in a farmed Mediterranean catchment with a
network of ditches.

A0069; EGU2007-A-05614; HS7-1FR2P-0069
Polshkova, I.N.
Assessment of ecologo-hydrogeological conditions under
anthropogenic impact using mathematical modeling

A0070; EGU2007-A-00191; HS7-1FR2P-0070
Bening, J.; Bayor, J.; Lumor, M.

An improved means groundwater exploration techniques using a combination of geophysical survey methods and groundwater models

A0071; EGU2007-A-07798; HS7-1FR2P-0071

Shafieifar, M.; Kholghi, M.; Hoorfar, A.

Comparison of efficiency of radial basis function and finite difference methods for groundwater flow modeling

A0072; EGU2007-A-05610; HS7-1FR2P-0072

van den Broek, A.; van der Zee, S.

Examining the relevance of macrodispersion coefficients for a semi-analytical solution for nonlinear biodegradation in a dispersive regime.

A0073; EGU2007-A-11148; HS7-1FR2P-0073

Zhang, X

Persistence of anomalous dispersion in uniform porous media demonstrated by pore-scale simulations

A0074; EGU2007-A-02622; HS7-1FR2P-0074

Brovelli, A.; Mao, X.; Barry, D.A.

Modelling 3D reactive transport in variable density flow using parallel computation

A0075; EGU2007-A-01888; HS7-1FR2P-0075

Chen, J.-S.; Liang, C.-P.

An analytical power series solution to the two-dimensional generalized advection-dispersion equation with linearly distance-dependent dispersivity

A0076; EGU2007-A-00322; HS7-1FR2P-0076

Noiriel, C.; Lagneau, V.; Madé, B.; Gouze, P.

Modelling of diffusion-limited transport in an altered fracture during dissolution.

A0077; EGU2007-A-09951; HS7-1FR2P-0077

Michel, L.; Caudal, J.-P.; de Bremond d'Ars, J.; Méheust, Y. Laboratory experiment of solute transport in a fracture with one porous wall

A0078; EGU2007-A-10710; HS7-1FR2P-0078

Lee, K.; Khinast, J.; Kim, J.

Modeling of contaminant transport resulting from dissolution of a coal tar pool in a stratified saturated porous medium

A0079; EGU2007-A-05263; HS7-1FR2P-0079

Liu, L.; Schmidt, T.; Haderlein, S.

Aging of NAPLs interfaces in porous media and their effects on mass transfer of organic contaminants

A0080; EGU2007-A-06097; HS7-1FR2P-0080

Yiotis, A.G.; Kainourgiakis, M.E.; Stubos, A.K.

Lattice Boltzmann modeling of residual non-aqueous phase liquids flow in underground porous domains

A0081; EGU2007-A-05850; HS7-1FR2P-0081

Lee, K

Modeling phase partitioning of ethanol and methanol with BTEX compounds in water

A0082; EGU2007-A-02610; HS7-1FR2P-0082

Brovelli, A.; Barry, D. A.

Evaluation of possible strategies for biogeochemical model calibration

A0083; EGU2007-A-01304; HS7-1FR2P-0083

Gooddy, D.C.; Hinsby, K.

Dissolved organic carbon in European groundwaters

A0084; EGU2007-A-00630; HS7-1FR2P-0084

Thomas, J. M.; **Chrysikopoulos, C. V.**

Experimental investigation of acoustically enhanced colloid transport in water-saturated packed columns

HS19 Monitoring and modelling for soil and ecohydrological processes across landscape elements

Convener: Romano, N.

Co-Convener(s): Van der Ploeg, M., Mulligan, M., White, S. Lecture Room 28 (B)

Chairperson: QUINTON, J.

13:30–13:45; EGU2007-A-06939; HS19-1FR3O-001

Haverkamp, R.; Ferraris, S.

Data Provision Strategy for Soil Hydraulic System Parameters at Field Scale (solicited)

13:45–14:00; EGU2007-A-05338; HS19-1FR3O-002

Romano, N.; **Chirico, G.B.;** Medina, H.

Uncertainty analysis for PTF at the hillslope scale

14:00–14:15; EGU2007-A-10022; HS19-1FR3O-003

Assouline, A

The effects of soil surface properties on infiltration and runoff

14:15–14:30; EGU2007-A-11032; HS19-1FR3O-004

Javaux, M.; Schroeder, T.; Vanderborght, J.; Vereecken, H.

Comparing different approaches for modelling root water uptake

14:30–14:45; EGU2007-A-05008; HS19-1FR3O-005

Montaldo, N.; Albertson, J. D.; Mancini, M.

Vegetation Dynamics and Soil Water Balance in a Water-limited Mediterranean Ecosystem on Sardinia, Italy

14:45–15:00; EGU2007-A-06352; HS19-1FR3O-006

Torres, E. A.; Gonzalez, J.; Rubio, E.; Calera, A.

Surface energy balance in a not irrigated wheat and its impact on actual ET in the south east of Spain

15:00 COFFEE BREAK

Chairperson: MONTALDO, N.

15:30–15:45; EGU2007-A-10979; HS19-1FR4O-001

Zalewski, M.; **Krauze, K.**

Ecohydrology as a framework for integration of knowledge on terrestrial and aquatic systems

15:45–16:00; EGU2007-A-10028; HS19-1FR4O-002

Vache, K.; Jones, J.; Bond, B.; Haggerty, R.; Harmon, M.; Johnson, S.; Lathja, K.; McDonnell, J.; Sollins, P.; Swanson, F.

A conceptual framework of water and nutrient cycling in coniferous forests of the Pacific Northwest, USA

16:00–16:15; EGU2007-A-05798; HS19-1FR4O-003

Martinez, C.; Hancock, G.R.; Kalma, J.D.

A multi-scale assessment of soil carbon dynamics at the hillslope and catchment scale

16:15–16:30; EGU2007-A-10882; HS19-1FR4O-004

Grimm, R.; Elsenbeer, H.; Behrens, T.; Märker, M.

Digital soil organic carbon mapping using random forests

16:30–16:45; EGU2007-A-10669; HS19-1FR4O-005

Ferraris, S.; Canone, D.; Prevati, M.; Calderon, F.; Salvai, L.; Bevilacqua, I.

Interannual variability of soil moisture: detailed measurements and ecohydrological models simulations.

16:45–17:00; EGU2007-A-00891; HS19-1FR4O-006

Krueger, T.; Quinton, J.N.; Freer, J.; Macleod, C.J.A.; Bilotta, G.S.; Brazier, R.E.; Butler, P.; Granger, S.; Haygarth, P.M.

Data availability and model identification in the case of sediment and phosphorus transfer at the plot scale

17:00 END OF SESSION**HS19 Monitoring and modelling for soil and ecohydrological processes across landscape elements – Posters**

Convener: Romano, N.

Co-Convener(s): Van der Ploeg, M., Mulligan, M., White, S.
Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 10:30–12:00

Poster Area Hall A
Chairperson: N.N.

A0085; EGU2007-A-08146; HS19-1FR2P-0085

Agnese, A.; Blanda, F.; Drago, A.; Iovino, M.; Minacapilli, M.; Provenzano, G.; Rallo, G.; Sciortino, M.
Assessing the agro hydrological SWAP model to simulate soil water balance in typical Mediterranean crops

A0086; EGU2007-A-06304; HS19-1FR2P-0086

Torres, E. A.; Huisman, J. A.; Rubio, E.; Calera, A.
Vertical soil water fluxes under high evaporative demand in south east Spain

A0087; EGU2007-A-08016; HS19-1FR2P-0087

Mekki, I.; Ghazouani, W.; Marlet, S.
Analysis of oasis ecosystem dynamic with emphasis on environment degradation (Nefzaoua, south of Tunisia)

A0088; EGU2007-A-01343; HS19-1FR2P-0088

Dukhovny, V.A.; Stulina, G.; Sorokin, A.; Tuchin, A.
Future socio-economic development on the base of hydroecological management of Chirchik basin (scenarios and models)

A0089; EGU2007-A-09242; HS19-1FR2P-0089

Stevens, C.J.; **Quinton, J.N.**
Pollution Swapping in Agricultural Systems

A0090; EGU2007-A-10925; HS19-1FR2P-0090

Schmidt, K.; Behrens, T.; Albrecht, C.; Gerber, R.; Felix-Henningsen, P.; Scholten, T.
Landscape segmentation, representativity and data mining - concepts for digital soil-hydrological mapping

A0091; EGU2007-A-01511; HS19-1FR2P-0091

Stulina, G.
Monitoring of changing landscape and soil on dried bottom of Aral Sea

A0092; EGU2007-A-10911; HS19-1FR2P-0092

Behrens, T.; Steinruecken, U.; Demuth, N.; Meuser, A.; **Scholten, T.**
Digital mapping of runoff processes using artificial neural networks and expert knowledge

A0093; EGU2007-A-05332; HS19-1FR2P-0093

Nasta, P.; Romano, N.; **Chirico, G.B.**
Spatial variability of the soil water content in an experimental catchment in Southern Italy

A0094; EGU2007-A-10096; HS19-1FR2P-0094

Casagrande, J. C.; Bizuti, D.T.G.; **Soares, M. R.**
Aluminum and base saturation and calcium level on eight native forest species vegetal development

A0095; EGU2007-A-01024; HS19-1FR2P-0095

Al Ali, Y.; Nasri, S.; Touma, J.; Pépin, y.; Zante, P.; Albergel, J.
Hydro-sedimentary functioning of a contour bunds terracing system in semi-arid zone (El Gouzine, Central Tunisia)

A0096; EGU2007-A-03817; HS19-1FR2P-0096

Pohlmeier, A.; Oros-Peusquens, A.M.; Javaux, M.; Menzel, M.I.; Vereecken, H.; Shah, N.J.
Changes of Water Content in a Ricinus Root System monitored by Magnetic Resonance Imaging

A0097; EGU2007-A-03165; HS19-1FR2P-0097

van der Ploeg, M.J.; Gooren, H.P.A.; Hoogendam, C.W.; Bakker, G.; Huiskes, C.; de Rooij, G.H.; Koopal, L.K.; Kruidhof, H.
Polymer tensiometers: measuring soil water pressures in the vicinity of maize roots

A0098; EGU2007-A-07965; HS19-1FR2P-0098

Schroder, T.; Javaux, M.; Vanderborght, J.; Vereecken, H.
Three dimensional modelling of root water uptake for small scale soil-root interactions

A0099; EGU2007-A-03516; HS19-1FR2P-0099

El-Bishti, M.; Verhoef, A.; Main, B.E.
Assessing the use of capacitance sensors for estimating diurnal variation in evaporation

A0100; EGU2007-A-11696; HS19-1FR2P-0100

Watzinger, A.; Klepsch, S.; Coja, T.
Leaching behaviour of the earthworm expellants formaldehyde and allyl isothiocyanate in soil

A0101; EGU2007-A-07163; HS19-1FR2P-0101

Arbel, Y.
Degree of water repellency and its relation to surface runoff, infiltration and finger flow, in afforested sand dunes.

A0102; EGU2007-A-10721; HS19-1FR2P-0102

Ferraris, S.; Putti, M.; Teatini, P.; Prevati, M.; Canone, D.; Salvai, L.; Bevilacqua, I.
Observation of swelling/shrinking phenomena in a natural peat soil sample.

A0103; EGU2007-A-07543; HS19-1FR2P-0103

Medina, H.; García, J.; Núñez, D.; **Romano, N.**
Relationship between soil water retention curves and soil properties in the Havana province

A0104; EGU2007-A-03663; HS19-1FR2P-0104

MacLeod, CJA.; Krueger, T.; Butler, P.; Freer, J.; Quinton, JN; Haygarth, PM
Does grassland management influence storm hydrographs at the field scale?

A0105; EGU2007-A-05776; HS19-1FR2P-0105

Tracol, Y.; Lopez, D.; Praderio, E.; Squeo, F.
Rainfall and MODIS LAI relationships in the north semi-arid zone of Chile

A0106; EGU2007-A-07185; HS19-1FR2P-0106

Jensen, J.B.; **Wahl, N.A.;** Grønvald, P.
Using GSI techniques to improve modeling results on a river valley scale: integrated water management in an EU WFD context

A0107; EGU2007-A-02860; HS19-1FR2P-0107

Shen, L.C.; Juang, J.C.; Tseng, C.L.; Tsai, C.L.
Remote Sensing stream flow & soil detection by using Reflected GPS observations

A0108; EGU2007-A-07421; HS19-1FR2P-0108

Lauren, A.; Asikainen, A.; Sikanen, L.; Finer, L.; Koivusalo, H.; Palviainen, M.; Kellomäki, S.; Kokkonen, T.
Impacts of logging residue and stump removal on nitrogen export to stream – a modelling approach

A0109; EGU2007-A-03811; HS19-1FR2P-0109

Berti, M.; Martina, M.L.V.; Simoni, A.
Field data and unsaturated zone response in clay shale terrain, northern Apennine, Italy

HS28 Catchment structure and connectivity (co-listed in GM, BG & SSS) – Posters

Convener: Bogaart, P.

Co-Convener(s): Kirkby, M., Esteves, M., Michaelides, K., Tetzlaff, D., Zehe, E.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 10:30–12:00

Poster Area Hall A

Chairperson: N.N.

A0110; EGU2007-A-08604; HS28-1FR2P-0110

Antoine, M.; Bielders, C.; Javaux, M.; Vanclooster, M.

Application of the Connectivity Concept on Soil Surface Micro-topography, and Impact on Runoff Dynamics: Numerical Experiment

A0111; EGU2007-A-10632; HS28-1FR2P-0111

Frey, M.; Schneider, MK; Stamm, C

Identification of hydrologically connected areas using a high-resolution digital elevation map

A0112; EGU2007-A-08313; HS28-1FR2P-0112

Di Domenico, A.; Laguardia, G; Fiorentino, M

New outcomes on critical behaviour of soil moisture dynamics

A0113; EGU2007-A-10741; HS28-1FR2P-0113

Seeling, S.; Vohland, M.; Nink, S.; Ronellenfisch, F.; Seeger, M.

Pattern recognition in soil moisture distribution on agriculture land derived from remote sensing SAR- and thermal-data

A0114; EGU2007-A-08291; HS28-1FR2P-0114

Dadson, S.; Bell, V

Using sub-grid-scale topographic information to parameterise a probability-distributed runoff-production scheme for regional climate modelling

A0115; EGU2007-A-02433; HS28-1FR2P-0115

Mohammadi, A.; Mosaedi, A.; Alaghmand, S.; Zlati-jugovic, J.

Assessment and recognition of sediment transport effective discharge (a case study: Tangrah hydrometric station, Iran)

A0116; EGU2007-A-10829; HS28-1FR2P-0116

Lawler, DM.; Barker, D; Knight, DW; Morris, D; Stewart, L; Riesner, S

Modelling the spatial structure of downstream change in river flood power: a new approach combining Flood Estimation procedures with Digital Elevation Models

A0117; EGU2007-A-07788; HS28-1FR2P-0117

Douvinet, J.; Delahaye, D.; Langlois, P.

A synthetic and dynamic morphometric parameter based on cellular automata for the improvement of classical morphometric indices.

A0118; EGU2007-A-07391; HS28-1FR2P-0118

Lane, S.N.; Reaney, S.; Heathwaite, A.L.

Does topography control the spatial organization of landscape hydrological connectivity

A0119; EGU2007-A-09192; HS28-1FR2P-0119

Reaney, S M.; Lane, S N; Heathwaite, A L

A numerical study of the impacts of climate change on surface hydrological connectivity in an upland environment

A0120; EGU2007-A-09669; HS28-1FR2P-0120

Margreth, M.; Naef, F.

Automatic evaluation of dominant runoff processes for catchments with low resolution soil data

A0121; EGU2007-A-06791; HS28-1FR2P-0121

Addy, S.J.; Hartley, A.J.; Soulsby, C.

Channel morphology and landscape connectivity in glaciated upland catchments.

A0122; EGU2007-A-08018; HS28-1FR2P-0122

Werder, M.; Loye, A.; Funk, M.

Evolution of a glacial drainage system throughout the melt season and due to enhanced water input

A0123; EGU2007-A-04940; HS28-1FR2P-0123

Armand, R.; Auzet, A.-V.; Bockstaller, C.

Assessing runoff generation in relation to soil surface characteristics variability. Application to small plots cropped with conservation tillage techniques

A0124; EGU2007-A-07186; HS28-1FR2P-0124

Onda, Y.; Mizugaki, S.; Nanko, K.; Asai, H.; Nagamine, M.; Hiramatsu, S.

Sediment yield and transportation in a humid forest plantation catchment through various scale field monitoring and FRN analysis

A0125; EGU2007-A-07302; HS28-1FR2P-0125

Gwerder, C.; Schnydrig, D.; Badoux, A.; McArdeall, B.W.; Molnar, P.; Schlunegger, F.

Spatial and temporal variation of erosion processes in an Alpine catchment

A0126; EGU2007-A-08071; HS28-1FR2P-0126

Kasprzak, M.; Niedzielski, T.

GIS-based analysis of channel and overbank deposition areas formed by flash floods: a case study from the Jagniecy Potok (Sudetes, SW Poland)

A0127; EGU2007-A-10061; HS28-1FR2P-0127

Michaelides, K.; Ibraim, I.; Quine, T.; Esteves, M.; Nord, G. Experimental and modelling investigation of hydrologic and sediment connectivity across the hillslope-floodplain interface

A0128; EGU2007-A-01272; HS28-1FR2P-0128

Mueller, E. N.; Francke, T.; Bornemann, N.; Batalla, R. J.

Connecting high-erodible hillslopes with sediment export in a meso-scale river basin: the role of in-channel sediment storage (Isabena River, NE Spain)

A0129; EGU2007-A-08504; HS28-1FR2P-0129

Grillot, C.; Perrin, J.L.; Tournoud, M.G.

Pollutant transfer along an intermittent and disconnected river channel during flash flood events.

A0130; EGU2007-A-05692; HS28-1FR2P-0130

Bracken, L.J.; Kirkby, M.J.

Thresholds for runoff and sediment transport in Semi-arid areas; implications for connectivity

A0131; EGU2007-A-01514; HS28-1FR2P-0131

De Smedt, F.

Solute transport in rivers affected by diffusive transfer in the hyporheic zone

A0132; EGU2007-A-10723; HS28-1FR2P-0132

Lawrie, K.; Clarke, J; Pain, C

Predicting aquifer characteristics and connectivity in Australia's complex regolith landscapes

A0133; EGU2007-A-10947; HS28-1FR2P-0133

Lawrie, K.; Wilford, J; **Pain, C**

Value-adding to Groundwater Flow Systems frameworks for managing dryland salinity in Australia

A0134; EGU2007-A-05907; HS28-1FR2P-0134

Harter, T.

Low percolation threshold found for correlated random media

A0135; EGU2007-A-10196; HS28-1FR2P-0135

Dobre, F.; Kuhlemann, J.; **Székely, B.**

Application of remote sensing and GIS-methods for the regional climatic characterisation of the high mountain region of Corsica, France

HS30 Experimental river basins

Convener: Pfister, L.

Co-Convener(s): Brilly, M., Holzmann, H.

Lecture Room 30 (C)

Chairperson: N.N.

Hydrological processes and related pollutant fluxes in experimental basins

8:30–8:45; EGU2007-A-01717; HS30-1FR1O-002

Gerrits, A.M.J.; Savenije, H.H.G; Pfister, L.

Comparison between forest floor interception of a beech, grass-moss and pine plot

8:45–9:00; EGU2007-A-02502; HS30-1FR1O-003

Rusjan, S.; Brilly, M.; Mikoš, M.; Padežnik, M.; Vidmar, A.
Hydrologic controls over the seasonal nitrate export mechanisms in a forested watershed

9:00–9:15; EGU2007-A-05044; HS30-1FR1O-004

Seeger, M.; Johst, M.; Seeling, S.; Casper, M.

The Frankelbach catchment – a field laboratory to understand the effects of land-use changes on the water balance of low mountain range headwater regions

9:15–9:30; EGU2007-A-05107; HS30-1FR1O-005

Geraldes, M. C.; Dias, A. P.; Babinsly, M.; Mansur, K.; Valeriano, C. M.

Pb isotopes patterns in sediments from Rio de Janeiro State (Brazil): evidence for anthropogenic sources

9:30–9:45; EGU2007-A-05242; HS30-1FR1O-006

Gu, W.; Lutz, S.; Lu, J.; Vesely, H.; Peters, N

Responses of hydrochemical inorganic ions in the rainfall-runoff processes of experimental catchments and its significance for tracing

9:45–10:00; EGU2007-A-05804; HS30-1FR1O-007

Martinez, C.; Hancock, G.R.; Kalma, J.D.; Wells, T.

Catchment scale near-surface and root zone soil moisture dynamics and the processes controlling their spatial and temporal distribution

10:00 COFFEE BREAK

Chairperson: N.N.

'New data sources and their potential for predictions in ungauged basins

10:30–10:45; EGU2007-A-07082; HS30-1FR2O-002

Laudon, H.; Seibert, J.; Grabs, T.; Buffam, I.; Bishop, K; Mörtz, CM

The Krycklan Catchment Study, Sweden: A field based experimental platform for linking small-scale process understanding to landscape patterns

10:45–11:00; EGU2007-A-07270; HS30-1FR2O-003

Steinweg, C.M.; **Bogaard, T.A.**

Investigating the contributions of soil- and groundwater to high discharges in a first-order catchment in Luxembourg.

11:00–11:15; EGU2007-A-07401; HS30-1FR2O-004

Westhoff, M.C.; Luxemburg, W.M.G; van de Giesen, N.C.; Savenije, H.H.G; Selker, J.S.

The search for orthogonal Data in Hydrology - DTS fiber optic Technique for high resolution temperature Data

11:15–11:30; EGU2007-A-08302; HS30-1FR2O-005

Gallart, F.; Latron, J.; Llorens, P.

Testing TOPMODEL for flow prediction in ungauged basins

11:30–11:45; EGU2007-A-08775; HS30-1FR2O-006

Blume, T.

The Experimental Hydrology Wiki

11:45–12:00; EGU2007-A-09639; HS30-1FR2O-007

Puech, C.; Sarrazin, B.; Ayral, P.A.; Bailly, J.S.; Sauvagnargues-Lesage, S.

From potential to real hydrographical network by use of DTM and synoptic in situ measurements

12:00 END OF SESSION

HS30 Experimental river basins – Posters

Convener: Pfister, L.

Co-Convener(s): Brilly, M., Holzmann, H.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 13:30–15:00

Poster Area Hall A

Chairperson: N.N.

A0136; EGU2007-A-00768; HS30-1FR3P-0136

Alatise, M.O.

Scientific Impetus to guarantee continuous hydro-measurements on Nigerian River Basins

A0137; EGU2007-A-01188; HS30-1FR3P-0137

Zahabiyoun, B.

Impact Assessment of Climate Change on Potential Evapotranspiration of an Experimental Catchment

A0138; EGU2007-A-02364; HS30-1FR3P-0138

Stellato, L.; Hofmann, H.; Pfister, L.; Tosheva, Z.; Kies, A.
Comparison of three models of gas exchange to describe the degassing of Rn-222 in a first-order stream on Huewelerbaach catchment (Luxembourg)

A0139; EGU2007-A-02812; HS30-1FR3P-0139

Padežnik, M.; Štravs, L.; Brilly, M.; Vidmar, A.; Rusjan, S.
Seasonal impact of algae on the velocity of the Glinšëica stream

A0140; EGU2007-A-03385; HS30-1FR3P-0140

Hellebrand, H.; Van den Bos, R

Comparing permeability and hydrological soil processes as first indicators on spatial variability of rainfall runoff relationships at the meso-scale

A0141; EGU2007-A-05188; HS30-1FR3P-0141

Ruch, Ch.; Vasvari, V.

The Pöllau experimental basin (Eastern-Styria/Austria) - over 25 years of continuous hydrological observations and multidisciplinary research

A0142; EGU2007-A-05771; HS30-1FR3P-0142

Outeiro, L.; Ubada, X; Farguella, J

Sequential gaussian simulation of suspended sediment concentration during an extreme rainfall episode in a Mediterranean experimental basin

A0143; EGU2007-A-05810; HS30-1FR3P-0143
Martínez, C.; Hancock, G.R.; Kalma, J.D.; Wells, T.; Lewis, T.; Evans, K.G.; Murphy, D.
 Spatial and temporal soil carbon assessment at the hillslope and catchment scale (SaTSCA)

A0144; EGU2007-A-07838; HS30-1FR3P-0144
Pavanelli, D.; Bigi, A.; **Rigotti, M.**
 Estimate of variation in surface erosion over last 50 years following depopulation in an Apennines catchment using U.S.L.E.

A0145; EGU2007-A-07867; HS30-1FR3P-0145
Gribovski, Z.; **Kalicz, P.**
 Baseflow recession analysis at the eastern foothills of the Alps

A0146; EGU2007-A-07956; HS30-1FR3P-0146
Sanda, M.; Sobotkova, M.; Cislerova, M.
 Natural Tracers in the Hydrological Cycle of a Small Mountainous Watershed

A0147; EGU2007-A-08123; HS30-1FR3P-0147
Ruch, C. A.; Schatzl, R.
 Two medium size experimental river basins for testing flood forecasting systems

A0148; EGU2007-A-08152; HS30-1FR3P-0148
Tournoud, M.G.; Perrin, J.L.; Chahinian, N.; Rodier, C.; Picot, B.; Salles, C.; Grillot, C.
 Experimental design for coupled water and nutrient dynamics on intermittent rivers: the Vène (France)

A0149; EGU2007-A-08226; HS30-1FR3P-0149
Petan, S.; Vidmar, A.; Padežnik, M.; **Brilly, M.**
 Measurement of snowmelt recharge of The Ljubljansko Polje aquifer

A0150; EGU2007-A-08818; HS30-1FR3P-0150
Pavanelli, D.; Bigi, A.; Rigotti, M.
 Reno river and tributaries monitoring programme to assess soil erosion and surface water status in experimental basins at different scales

A0151; EGU2007-A-09240; HS30-1FR3P-0151
Copertino, V.A.; Giosa, L.; Mirauda, D.; Scavone, G.; Sole, A.; Telesca, V.; Sdao, F.
 Classification of fluvial morphologies and instabilities in an experimental river basin

A0152; EGU2007-A-10448; HS30-1FR3P-0152
Seeling, S.; Seeger, M.; Schüller, G.
 The WaReLa network of experimental river basins as basis of a decision support system for precautionary flood protection

A0153; EGU2007-A-10953; HS30-1FR3P-0153
Yan, J.; Wang, J.; Li, H. C.; Jiang, N. Q.; Sun, D. P.
 The experiment for the influence of water-sand combination to sediment carrying capacity in lower Yellow River

A0154; EGU2007-A-11383; HS30-1FR3P-0154
Hejduk, L.; Banasik, K.
 Seasonal variation of suspended sediment grain size distribution

HS32 Climate-soil and vegetation interactions in ecological-hydrological processes (co-listed in AS, CL, NP & SSS)

Convener: Manfreda, S.
 Co-Convener(s): Montaldo, N., Sivapalan, M., Iacobellis, V., Kunstmann, H., Rosbjerg, D.
 Lecture Room 28 (B)
 Chairperson: FIORENTINO, M.

8:30–9:00; EGU2007-A-02803; HS32-1FR1O-001
Kirkby, M.J.; Irvine, B.J.
 Vegetation, runoff and erosion (solicited)

9:00–9:15; EGU2007-A-06881; HS32-1FR1O-002
Bochet, E.; García-Fayos, P.
 Predicting the effects of climate change and erosion on biodiversity and ecosystem functioning in semiarid environments.

9:15–9:30; EGU2007-A-03770; HS32-1FR1O-003
Borgogno, F.; D'Odorico, P.; Laio, F.; Ridolfi, L.
 Bistable dryland ecosystems subject to rainfall interannual variability

9:30–9:45; EGU2007-A-06943; HS32-1FR1O-004
Baudena, M.; D'Andrea, F.; Provenzale, A.
 A process model of vegetation-atmosphere interactions in drylands.

9:45–10:00; EGU2007-A-06962; HS32-1FR1O-005
Cannarozzo, M.; Noto, L.V.; **Pumo, D.;** Viola, F.
 Ecohydrology in Mediterranean areas: a numerical model to describe growing seasons out of phase with precipitations.

10:00–10:15; EGU2007-A-07817; HS32-1FR1O-006
Mancini, M.; Horeschi, D.; Montaldo, N.; Baroni, G.; Facchi, A.; Gandolfi, C.
 Eddy evapotranspiration measures on crop field: comparison between observed and fao canopy coefficient

10:15 COFFEE BREAK

Chairperson: MANFREDA, S.

10:30–10:45; EGU2007-A-05071; HS32-1FR2O-001
Niemann, J.
 Analysis, estimation, and modeling of soil moisture variation using empirical orthogonal functions (solicited)

10:45–11:00; EGU2007-A-10467; HS32-1FR2O-002
Martin, M.; **Brush, G. S.;** Chamecki, M.; Parlange, M. B.; Meneveau, C.
 Plant-atmosphere exchange: field studies of the dispersion of pollen in the lower atmosphere

11:00–11:15; EGU2007-A-02022; HS32-1FR2O-003
Schymanski, S. J.; Sivapalan, M.; Roderick, M. L.
 Possible long-term effects of increased CO₂ on vegetation and the Hydrological Cycle

11:15–11:30; EGU2007-A-07653; HS32-1FR2O-004
Gerten, D.; Lucht, W.; Schaphoff, S.
 Global changes in climate, CO₂ and soil moisture, and their effects on NPP: a fragile balance

11:30–11:45; EGU2007-A-06406; HS32-1FR2O-005
Botter, G.; Porporato, A.; Daly, E.; Rodriguez-Iturbe, I.; Rinaldo, A.
 On the Probabilistic characterization of base flows in river basins

11:45–12:00; EGU2007-A-07904; HS32-1FR2O-006
Campo, L.; Castelli, F.; Entekhabi, D.; Caparrini, F.
 Coupling of an atmospheric Limited Area Model with a sequential Land Surface Temperature Assimilation scheme

12:00–12:15; EGU2007-A-06979; HS32-1FR2O-007
Kunstmann, H.; Marx, A.; Werhahn, J.; Smiatek, G.
 Coupled meteorological-hydrological early flood warning for Alpine catchments

12:15 END OF SESSION

HS32 Climate-soil and vegetation interactions in ecological-hydrological processes (co-listed in AS, CL, NP & SSS) – Posters

Convener: Manfreda, S.

Co-Convener(s): Montaldo, N., Sivapalan, M., Iacobellis, V., Kunstmann, H., Rosbjerg, D.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 13:30–15:00

Poster Area Hall A

Chairperson: IACOBELLIS, V.

A0155; EGU2007-A-10850; HS32-1FR3P-0155

Kuells, C.; Fersch, B.

Interaction between riparian phreatophytes, alluvial aquifers and channel processes

A0156; EGU2007-A-01679; HS32-1FR3P-0156

Karimpour Reihan, M.; Amiraslani, F.

The effects of geomorphologic factors on vegetation in semi-arid climate

A0157; EGU2007-A-00054; HS32-1FR3P-0157

Jin, K.; Njoku, E.; Chan, S.

Soil moisture and precipitation relationships inferred from satellite remote sensing data

A0158; EGU2007-A-07064; HS32-1FR3P-0158

Gribovszki, Z.; Kalicz, P.; Kucsara, M.; Szilágyi, J.

Estimation of riparian zone evapotranspiration from diurnal groundwater patterns

A0159; EGU2007-A-01259; HS32-1FR3P-0159

Sinclair, S.; Pegram, G.; Vischel, T.

Spatial conditioning of Evapo-transpiration potential for distributed hydrological modelling in Southern Africa

A0160; EGU2007-A-09719; HS32-1FR3P-0160

Quevedo, D.; Francés, F.

Conceptual vegetation-soil model for arid and semiarid zones

A0161; EGU2007-A-01845; HS32-1FR3P-0161

Novak, V.; Himmelbauer, M.

Crop root parameters in vertical profiles for modeling of soil water uptake at macroscale

A0162; EGU2007-A-00051; HS32-1FR3P-0162

Kocsis, T.; Anda, A.

Local impacts of possible climatic modifications on micrometeorology and transpiration of maize canopy in Hungary

A0163; EGU2007-A-00885; HS32-1FR3P-0163

Turnbull, L.; Wainwright, J.; Brazier, R.E.

Development of a spatially explicit ecohydrological modelling approach to simulate semi-arid vegetation transition dynamics

A0164; EGU2007-A-04152; HS32-1FR3P-0164

Peters, J.; Verhoest, N.; Samson, R.; Boeckx, P.

Temporal characteristics of ecohydrological variables in an intensively monitored wetland

A0165; EGU2007-A-03163; HS32-1FR3P-0165

Tanaka, K.; Yoshifuji, N.; Tanaka, N.; Tantasirin, C.; Suzuki, M.

Simulation of growing season length of a teak plantation in a dry tropical area using water budget

A0166; EGU2007-A-02331; HS32-1FR3P-0166

Szilágyi, J.

New findings about complementary relationship of evaporation

A0167; EGU2007-A-03523; HS32-1FR3P-0167

Ghilain, N.; Arboleda, A.; Gellens-Meulenberghs, F.

Using MSG-SEVIRI derived vegetation parameters in an energy balance model: methodology and impact on surface heat fluxes

A0168; EGU2007-A-04772; HS32-1FR3P-0168

Kume, T.; Takizawa, H.; Yoshifuji, N.; Tanaka, K.; Tantasirin, C.; Tanaka, N.; Suzuki, M.

Impacts of soil drought on transpiration in a tropical evergreen forest in northern Thailand

A0169; EGU2007-A-05243; HS32-1FR3P-0169

Pereira, F.; Valente, F.; David, J. S.

Radiation balance of an isolated holm oak tree (*Quercus rotundifolia* Lam.) in a mediterranean savannah-type woodland

A0170; EGU2007-A-05419; HS32-1FR3P-0170

Friesen, J.; van Beek, K.; Selker, J.; Savenije, H.; van de Giesen, N.

Elastic Stem Measurements of Above Ground Tree Mass Change

A0171; EGU2007-A-06411; HS32-1FR3P-0171

Kaduk, J.; Los, S.

Phenological Models for the Leaf out Date of subtropical Biomes determined from NDVI

A0172; EGU2007-A-07808; HS32-1FR3P-0172

Wei Shan, A.; Yanqiu Xing, B.; Ling Yu, C.; Ying Guo, D.

Shallow slope stability analysis for earth cut slope of high-rank highway in high latitude seasonally frozen regions

A0173; EGU2007-A-08622; HS32-1FR3P-0173

Laguardia, G.

On the detection of droughts by means of NDVI: the role of climatic clustering.

A0174; EGU2007-A-08956; HS32-1FR3P-0174

Conrad, Y.; Schmalz, B.; Fohrer, N.

Modelling of nitrogen dynamics in the vadose zone under agricultural soils: application of a process-based model

A0175; EGU2007-A-10208; HS32-1FR3P-0175

Maier, U.; Henzler, R.; Grathwohl, P.

Biogeochemical modelling of constructed wetlands for large scale contaminated groundwater remediation

A0176; EGU2007-A-10352; HS32-1FR3P-0176

Fiorentino, M.; Onorati, B.; Manfreda, S.; Carriero, D.; Telesca, V.; Copertino, V.; Iacobellis, V.; Romano, N.

Experimental monitoring of soil moisture dynamics over a hillslope transect

A0177; EGU2007-A-10508; HS32-1FR3P-0177

Kochendorfer, J.; Ramirez, J.A.

Soil textural and climatic controls on vegetation density and evapotranspiration partitioning in the Central United States

A0178; EGU2007-A-11129; HS32-1FR3P-0178

Gigante, V.; Milella, P.; Iacobellis, V.; Portoghesi, I.

Adopting robust NDVI-LAI regressions as a means for improving water balance predictions in Mediterranean regions

A0179; EGU2007-A-10573; HS32-1FR3P-0179

Hannerz, F.; Destouni, G.

Local to global data gaps for assessment of water and substance fluxes to oceans and the atmosphere

A0180; EGU2007-A-08273; HS32-1FR3P-0180

Dadson, S.; Bell, V.; Jones, R.

Predictions of river flow in NW Europe using a coupled hydrological and regional climate model

A0181; EGU2007-A-04526; HS32-1FR3P-0181
Andrieux, C.; Guillevic, P.; Do, M.-T.; Andrieu, H.
 Modelling of interactions between urban surfaces and atmosphere

A0182; EGU2007-A-04882; HS32-1FR3P-0182
Ward, P.; Renssen, H.; Aerts, J.C.J.H.; van Balen, R.T.; Vandenbergh, J.
 Strong increase in discharge and flood frequency of the River Meuse over the last four millennia: impact of climate variability and anthropogenic land-use changes

A0183; EGU2007-A-10213; HS32-1FR3P-0183
Zehe, E.; Elsenbeer, H.; Lindenmaier, F.; Schulz, K.; Blöschl, G.
 Patterns of predictability in hydrological threshold systems

HS34 Calibration, data assimilation, and uncertainty estimation of spatially distributed and integrated catchment models

Convener: Feyen, L.
 Co-Convener(s): Freer, J., Madsen, H., Seibert, J., Vrugt, J.
 Lecture Room 30 (C)
 Chairperson: N.N.

13:30–14:00; EGU2007-A-01442; HS34-1FR3O-001
Pauwels, VRN
 A Multistart Kalman Filter-Based Method for Model Calibration (solicited)

14:00–14:15; EGU2007-A-10846; HS34-1FR3O-002
Ajami, N.
 Integrated Uncertainty Estimation for Distributed Hydrological Models (solicited)

14:15–14:30; EGU2007-A-01813; HS34-1FR3O-003
Reed, P.
 Innovations and challenges for using evolutionary multiobjective optimization in water resources (solicited)

14:30–14:45; EGU2007-A-04355; HS34-1FR3O-004
Li, W.; Cirpka, O.A.; Englert, A.
 Geostatistical identification of spatially distributed parameter fields by hydraulic tomography

14:45–15:00; EGU2007-A-07870; HS34-1FR3O-005
Balin, D.; Shbaita, H.; Lee, H.; Rode, M.
 Bayesian uncertainty analysis for distributed hydrological modelling: application to a small lower mountain range catchment in central Germany

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-07621; HS34-1FR4O-001
Baroncini, F.; Castelli, F.
 Comparison of different data assimilation techniques based on sub-optimal filters in a distributed hydrologic model

15:45–16:00; EGU2007-A-10876; HS34-1FR4O-002
Lettenmaier, D.P.; Andreadis, K.; Wood, A.W.
 Snow data assimilation in regional scale seasonal hydrologic forecasts

16:00–16:15; EGU2007-A-06698; HS34-1FR4O-003
Kolberg, S.; Gottschalk, L.
 Distributed model calibration using snow cover images

16:15–16:30; EGU2007-A-08667; HS34-1FR4O-004
Schaeffli, B.; Zehe, E.
 Analyzing hydrological model performance in the wavelet spectral domain

16:30–16:45; EGU2007-A-01811; HS34-1FR4O-005
Götzinger, J.; Bárdossy, A.
 Generic error model for calibration and uncertainty estimation of hydrological models

16:45–17:00; EGU2007-A-07985; HS34-1FR4O-006
Montanari, A.
 Global uncertainty assessment for hydrological model output based on the analysis of model errors: a multiple regression approach

17:00 END OF SESSION

HS34 Calibration, data assimilation, and uncertainty estimation of spatially distributed and integrated catchment models – Posters

Convener: Feyen, L.
 Co-Convener(s): Freer, J., Madsen, H., Seibert, J., Vrugt, J.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00
 Poster Area Hall A
 Chairperson: N.N.

A0184; EGU2007-A-09702; HS34-1FR2P-0184
Blasone, R. S.; Madsen, H.; Rosbjerg, D.
 Effective calibration and uncertainty assessment of integrated distributed hydrological models

A0185; EGU2007-A-06974; HS34-1FR2P-0185
Shrestha, D.; Solomatine, D.
 Neural networks and clustering in estimation of the total model uncertainty of hydrologic models

A0186; EGU2007-A-06533; HS34-1FR2P-0186
Rojas, R.; Dassargues, A.; Feyen, L.
 Combining the generalized likelihood uncertainty estimation (GLUE) and Bayesian model averaging (BMA) to evaluate conceptual model and parameter uncertainty in groundwater modelling

A0187; EGU2007-A-03397; HS34-1FR2P-0187
Shbaita, H.; Balin, D.; Rode, M.
 Importance of uncertainty analysis on the identification of optimum spatial discretization of a distributed rainfall runoff model

A0188; EGU2007-A-08214; HS34-1FR2P-0188
Ghizzoni, T.; Giannoni, F.; Roth, G.; Rudari, R.
 Assessing the potential accuracy of hydrologic rainfall-runoff models

A0189; EGU2007-A-04810; HS34-1FR2P-0189
Kuchment, L.; Gelfan, A.; Demidov, V.
 Calibration and uncertainty assessment of a distributed physically based model of snowmelt runoff generation

A0190; EGU2007-A-04649; HS34-1FR2P-0190
Turcotte, R.; Villeneuve, JP
 Snow model parameters calibration for SWE analysis and spatially-distributed hydrological modelling

A0191; EGU2007-A-04339; HS34-1FR2P-0191
Pakosch, S.; Disse, M.
 Half-automatic calibration of WaSiM-ETH by using the genetic evolution algorithm SCE-UA

A0192; EGU2007-A-10429; HS34-1FR2P-0192
Disse, M.; Pakosch, S.; Molnar, T.
 Optimization of a physically-based Catchment Model with Shuffled Complex Evolution Algorithms applying different objective Functions

A0193; EGU2007-A-07414; HS34-1FR2P-0193
Schröter, K.; Ostrowski, M.; Muschalla, D.; Klawitter, A.; Velasco-Forero, C.
 Multi-site calibration of a distributed hydrological model

A0194; EGU2007-A-04045; HS34-1FR2P-0194
Hunger, M.; Fiedler, K.; Döll, P.
 Value of additional discharge information for tuning a global hydrological model

A0195; EGU2007-A-07678; HS34-1FR2P-0195
 Zhang, Y; Hörmann, G; **Schmalz, B**
 Effects of model and data complexity on the results for discharge simulation

A0196; EGU2007-A-04234; HS34-1FR2P-0196
Te Linde, A.H.; Hurkmans, R.; Aerts, J.C.J.; Dolman, A.J.
 Comparing model performance of the HBV and VIC models in the Rhine basin

A0197; EGU2007-A-05633; HS34-1FR2P-0197
Schaeffli, B.; Montanari, A.
 Calibrating hydrological models in the spectral domain: Inference of parameter uncertainty using a Metropolis algorithm

A0198; EGU2007-A-07307; HS34-1FR2P-0198
Reusser, D.E.; Schaeffli, B.; Eckart, J.; Zehe, E.
 Faster identifiability analysis of hydrological models using generalized FAST (Fourier Amplitude Sensitivity Test)

A0199; EGU2007-A-09633; HS34-1FR2P-0199
Troy, T.; Sheffield, J.; Wood, E.
 Temporal and Spatial Scales in Hydrological Model Calibration

A0200; EGU2007-A-00784; HS34-1FR2P-0200
Treebushny, D
 Breeds of the Reduced Rank Square Root Kalman filter: regression analysis framework as a source of inspiration

A0201; EGU2007-A-09781; HS34-1FR2P-0201
de Goncalves, L. G.; Houser, P. R.
 The Feasibility of Soil Moisture Estimation through Stream-flow Assimilation in Dense Vegetated Areas

A0202; EGU2007-A-04291; HS34-1FR2P-0202
Quintana-Seguí, P.; Martin, E.; Habets, F.
 Analysis of near surface atmospheric variables for distributed hydrometeorological models. Validation of the SAFRAN analysis over France.

A0203; EGU2007-A-04276; HS34-1FR2P-0203
Quintana-Seguí, P.; Martin, E.; Habets, F.
 Improvement of the performance of the distributed hydrological suite SAFRAN-ISBA-MODCOU using an exponential profile of hydraulic conductivity

A0204; EGU2007-A-10939; HS34-1FR2P-0204
Markel, D.; Evans, B.; Goldwasser, K.; Ostfeld, A.; Friedler, E.; Somma, F.
 Using a GIS-based load transfer model (AVGWLF) for improving management of Lake Kinneret watershed, Israel

HS36 Hydrological extremes: controls, spatial & temporal variability and regional patterns – Posters

Convener: Laaha, G.
 Co-Convener(s): Castellarin, A., Szolgay, J., Schaeffli, B., Tallaksen, L.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00
 Poster Area Hall A
 Chairperson: N.N.

A0205; EGU2007-A-10696; HS36-1FR2P-0205
Ajayi, A.E.; Olufayo, A.A.
 Quantification of drought occurrence, severity and duration in some cities in Nigeria

A0206; EGU2007-A-10883; HS36-1FR2P-0206
Ajayi, A.E.; Olufayo, A.A.; Affinnih, T.J.
 Historical study of flood events in the lower Niger River Basin, Nigeria

A0207; EGU2007-A-10830; HS36-1FR2P-0207
Lawford, R. G.; Stewart, R.; Pomeroy, J.
 Recent Advances in understanding Drought on the Canadian Prairies: Successes of the Drought Research Initiative

A0208; EGU2007-A-09943; HS36-1FR2P-0208
 Malmir, M; Kholghi, M; Ashraf Zadeh, A
 Low flow time series forecasting

A0209; EGU2007-A-09743; HS36-1FR2P-0209
Lang, C.; Gille, E.; François, D.
 How to improve the simulation of low flow discharges? (Use of the knowledge of low flow processes in a model)

A0210; EGU2007-A-08720; HS36-1FR2P-0210
Longobardi, A.; Villani, P.
 Low flows regional statistical analysis within a southern Italy context

A0211; EGU2007-A-06714; HS36-1FR2P-0211
 Laguardia, G.; Niemeyer, 40112
 Towards a soil moisture-based drought index

A0212; EGU2007-A-05196; HS36-1FR2P-0212
Trnka, M.; Dubrovský, M.; Kyselý, J.; Kladňáková, V.; Možný, M.; Hostýnek, J.; Semerádová, D.
 Meteorological drought events in the Czech Republic during 1875-2005 according to Palmer's drought indices

A0213; EGU2007-A-03470; HS36-1FR2P-0213
Stojkovova, M.; Fendekova, M.
 Temporal and spatial distribution of minimum groundwater runoff in the western and central part of Slovakia

A0214; EGU2007-A-03265; HS36-1FR2P-0214
Machlica, A.
 Impact of dry years on some compounds of the hydrological balance in Chvojnicka River catchment

A0215; EGU2007-A-06446; HS36-1FR2P-0215
Pinskwar, I.; Szwed, M.
 Long term variability of precipitation deficits in Poland

A0216; EGU2007-A-08222; HS36-1FR2P-0216
Fleig, A. K.; Tallaksen, L. M.; Hannah, D. M.
 Identification of atmospheric patterns associated with severe regional drought in North-Western Europe

A0217; EGU2007-A-07385; HS36-1FR2P-0217
 Kingston, D. G.; **Hannah, D. M.;** McGregor, G. R.; Lawler, D. M.
 Climate patterns associated with high and low river flow across the northern North Atlantic region

A0218; EGU2007-A-08224; HS36-1FR2P-0218
Hurkmans, R.; de Moel, H.; Aerts, J.; Troch, P.A.
 Does solving the energy balance improve Rhine streamflow simulations?

A0219; EGU2007-A-06375; HS36-1FR2P-0219
Panagoulia, D.; Lourmas, G
 Artificial neural network modeling of fragmented rainfall-runoff processes in various climates

A0220; EGU2007-A-07297; HS36-1FR2P-0220

Ludwig, R.; Mauser, W.

Assessing the potential of adapted land use to mitigate climate change effects on hydrological extremes in central Europe

A0221; EGU2007-A-03220; HS36-1FR2P-0221

Ioana-Toroimac, G.; Beltrando, G.; Planchon, O.; Zaharia, L.

Winter-spring extreme hydrological episodes and their causes in Romanian Carpathians and Subcarpathians: case of Prahova River

A0222; EGU2007-A-04274; HS36-1FR2P-0222

Kaplicka, A.; Kvitek, B.

Extreme rainfall-runoff event in a small experimental catchment in the Bohemo-Moravian Highland

A0223; EGU2007-A-08583; HS36-1FR2P-0223

Mares, I.; Stanciu, A.; **Mares, C**

Statistical modeling of the extremes in the Danube lower basin discharge levels in spring time

A0224; EGU2007-A-09511; HS36-1FR2P-0224

Naef, F.; Schmocker-Fackel, P.; Hegg, C

Distribution of large floods in Switzerland in the last 400 years

A0225; EGU2007-A-09658; HS36-1FR2P-0225

Nemmert, J.; Rutschmann, P.

A contribution determining design floods

A0226; EGU2007-A-11012; HS36-1FR2P-0226

García-Bartual, R.; Múnera, J.C.

A decision support tool for flash flood control in large dams

A0227; EGU2007-A-08368; HS36-1FR2P-0227

Kupfersberger, H.; Dalla-Via, A.; Fank, J.

Estimation of the regional distribution of extreme groundwater levels in the Marchfeld, Austria

A0228; EGU2007-A-11271; HS36-1FR2P-0228

Bloomfield, J.P.; Rutter, H.

Regional aspects of groundwater flooding in Chalk catchments

A0229; EGU2007-A-02396; HS36-1FR2P-0229

Mosaedi, A.; Sharifan, H.; Shahabi, M.

Effects of topography on maximum daily precipitation in Golestan province (Iran)

A0230; EGU2007-A-03725; HS36-1FR2P-0230

Pedersen, L.; Jensen, N. E.; Madsen, H.; Madsen, H.

Spatial scales for extreme rainfall return periods – characteristic parameters for use in urban drainage design

A0231; EGU2007-A-10778; HS36-1FR2P-0231

Smith, A.; Kilsby, C

Spatial properties of storms and extreme rainfall in the UK, characterized using a 5km gridded, daily rainfall record.

A0232; EGU2007-A-08279; HS36-1FR2P-0232

Gaal, L.; Kysely, J.; Szolgay, J.

Comparison of regional approaches to the frequency analysis of extreme 1-day precipitation amounts in Slovakia

A0233; EGU2007-A-11301; HS36-1FR2P-0233

Mastrandrea, G.; Vitolo, C.; Benevento, G.; Furcolo, P.; Rossi, F.

Regional characteristics and spatial patterns of extreme precipitation in Southern Italy

A0234; EGU2007-A-08096; HS36-1FR2P-0234

Stewart, E. J.; Folwell, S. S.

Relating design rainfall estimates to probable maximum precipitation – a study of reservoir flood risk in the UK

A0235; EGU2007-A-02589; HS36-1FR2P-0235

Renard, R.; Sarr, S.; **Soto, S.**

Evaluation of rainfall spatial interpolation methods, assessment on different places and times: a small urban area (France), a large rural water catchment (Senegal) and the northern Atlantic region

HS39 Stochastic-dynamic modelling of precipitation (co-listed in NP & AS)

Convener: Cârsteanu, A.

Co-Convener(s): Bardossy, A., Burlando, P., Lanza, L., Srikanthan, S.

Lecture Room 31

Chairperson: SRIKANTHAN, S.

8:30–8:45; EGU2007-A-05237; HS39-1FR1O-001

Lepioufle, J.-M.; **Leblois, E.;** Ramos, H.; Perchat, C.

Need of a rain displacement parametrization in space-time rainfall simulation

8:45–9:00; EGU2007-A-06148; HS39-1FR1O-002

Molnar, P.; **Burlando, P.**

Seasonal and regional variability in scaling properties and correlation structure of high resolution precipitation data in a highly heterogeneous mountain environment

9:00–9:15; EGU2007-A-07206; HS39-1FR1O-003

Yang, W.; Bardossy, A.; Caspary, H.

The application of copulas to downscale daily precipitation

9:15–9:30; EGU2007-A-10275; HS39-1FR1O-004

Lovejoy, S.; Schertzer, D.

Turbulent compound Poisson / multifractal processes for modeling precipitation and the nature of the zeroes

9:30–9:45; EGU2007-A-02506; HS39-1FR1O-005

Bozzo, A.; **Serafin, S.;** Zardi, D.

Coupling meteorological and hydrological models for river discharge forecasting. Part I: A methodological approach

9:45–10:00; EGU2007-A-11513; HS39-1FR1O-006

Chandler, R.; Leith, N.; Onof, C.

Addressing climate model uncertainty in stochastic downscaling applications for hydrology (solicited)

10:00 END OF SESSION

HS39 Stochastic-dynamic modelling of precipitation (co-listed in NP & AS) – Posters

Convener: Cârsteanu, A.

Co-Convener(s): Bardossy, A., Burlando, P., Lanza, L., Srikanthan, S.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 15:30–17:00

Poster Area Hall A

Chairperson: CARSTEANU, A.A.

A0236; EGU2007-A-00939; HS39-1FR4P-0236

Neykov, NMN

Modelling daily precipitation over the territory of Bulgaria using hidden Markov models

A0237; EGU2007-A-01069; HS39-1FR4P-0237

Segond, M.-L.; Onof, C

Modelling of Space-Time rainfall for System Based Analysis and Management of Urban Flood Risks (SAM).

A0238; EGU2007-A-01418; HS39-1FR4P-0238

Mehrotra, R.; Sharma, A

A stochastic daily rainfall occurrence generator with higher time scale dependence

A0239; EGU2007-A-02510; HS39-1FR4P-0239
Bozzo, A.; Serafin, S.; Pasetto, A.; Zardi, D.
 Coupling meteorological and hydrological models for river discharge forecasting. Part II: A case study about hydropower generation management

A0240; EGU2007-A-02855; HS39-1FR4P-0240
De Luca, D.L.; Versace, P.; Sirangelo, B.
 Rainfall forecasting by coupling stochastic models and meteorological information

A0241; EGU2007-A-03132; HS39-1FR4P-0241
Srikanthan, R.; Pegram, G G S
 Stochastic generation of daily rainfall at multiple sites

A0242; EGU2007-A-05172; HS39-1FR4P-0242
 Chopart, S.; **Leblois, E.**; El Kadi, K.
 Selecting representative rain events considering a given structured basin

A0243; EGU2007-A-06726; HS39-1FR4P-0243
Molini, A.; La Barbera, P.; Lanza, L.G.
 Binary signal characteristics as a tool for the interpretation of the intermittent structure of rainfall in space and time

A0244; EGU2007-A-09652; HS39-1FR4P-0244
Ebner von Eschenbach, A.-D.; Haberlandt, U.; Bárdossy, A.; Jungvirtova, E.
 Hourly Precipitation Synthesis using an Alternating Renewal Model conditioned on atmospheric Circulation Patterns

A0245; EGU2007-A-09837; HS39-1FR4P-0245
Haberlandt, U.; Ebner von Eschenbach, A.-D.
 Stochastic synthesis of hourly precipitation using a univariate alternating renewal model with multivariate posterior resampling

A0246; EGU2007-A-10123; HS39-1FR4P-0246
Dobler, A.; Ahrens, B.; Luethi, D.
 Downscaling of precipitation - need and use of observational data

A0247; EGU2007-A-10937; HS39-1FR4P-0247
Eleuch, M.S.; Magagi, R.; Carsteanu, A.A.; Ba, K.M.; Quentin, E.; Diaz-Delgado, C.; Goita, K.
 The radar observer's problem in fractal rainfall fields: stochastic vs. deterministic modeling of a catchment's water balance

A0248; EGU2007-A-10995; HS39-1FR4P-0248
Christakos, G.
 Epistematics and its applications in physical modelling and predictive mapping under conditions of uncertainty (cancelled)

HS40 Novel techniques for measuring rainfall micro- and macro-structure (co-listed in AS & NH)

Convener: Uijlenhoet, R.
 Co-Convener(s): Seed, A., Creutin, J., Georgakakos, K.
 Lecture Room 31
 Chairperson: UIJLENHOET, R.

10:30–10:45; EGU2007-A-02094; HS40-1FR2O-001
Krajewski, W.F.; Eichinger, W.; Lewandowski, P.; Kruger, A.
 Bridging the scale gap: lidar estimation of small-scale rainfall (solicited)

10:45–11:00; EGU2007-A-11503; HS40-1FR2O-002
 Alpert, P.; Rayitsfeld, A.; Firsten, A.; David, N.; Goldshtein, O.; Messer, H.; **Zinevich, A.**
 Study of precipitation by cellular networks (solicited)

11:00–11:15; EGU2007-A-04472; HS40-1FR2O-003
Berne, A.; Uijlenhoet, R.
 Path-averaged rainfall estimation using a microwave link: uncertainty due to rainfall spatial variability

11:15–11:30; EGU2007-A-07631; HS40-1FR2O-004
Figueras i Ventura, J.; Russchenberg, H.W.J
 IDRA, a new advanced high-resolution instrument for drizzle observation

11:30–11:45; EGU2007-A-08131; HS40-1FR2O-005
Van Baelen, J.; Pointin, Y.; Brucker, L.; Peters, G.
 Precipitation variability studies using X and K band radars

11:45–12:00; EGU2007-A-10908; HS40-1FR2O-006
 Berenguer, M.; **Zawadzki, I.**
 More evidence of correlation between bright band characteristics and the Z-R relationship in stratiform rainfall

12:00 END OF SESSION

HS40 Novel techniques for measuring rainfall micro- and macro-structure (co-listed in AS & NH) – Posters

Convener: Uijlenhoet, R.
 Co-Convener(s): Seed, A., Creutin, J., Georgakakos, K.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 15:30–17:00
 Poster Area Hall A
 Chairperson: UIJLENHOET, R.

A0249; EGU2007-A-02050; HS40-1FR4P-0249
Morin, E.; Karklinsky, M.; Tamari, H.
 Spatial characteristics of radar-derived convective rain cells over dry climate regimes and their hydrological impacts (cancelled)

A0250; EGU2007-A-11579; HS40-1FR4P-0250
Berne, A.; Boudevillain, B.; Chapon, B.; Kirstetter, P.E.; Delrieu, G.
 Spatial and temporal structure of intense Mediterranean precipitation

A0251; EGU2007-A-02608; HS40-1FR4P-0251
Vulpiani, G.; Tabary, P.; Parent-Du-Chatelet, J.; Marzano, F. S.
 A polarimetric approach for attenuation compensation in presence of rain/hail mixture

A0252; EGU2007-A-09535; HS40-1FR4P-0252
 Marzano, F.S.; Memmo, A.; **Cimini, D.**; Di Michele, S.
 Ground-Based Multi-Frequency Microwave Radiometry of Rainfall: Modeling and Observations

A0253; EGU2007-A-07162; HS40-1FR4P-0253
Segond, M.-L.; Tabary, P.; Parent-du-Chatelet, J.; Illingworth, A.J.; Friedrich, K.
 Discussion on the implementation of Quantitative Precipitation Estimations (QPE) on operational polarimetric radars

A0254; EGU2007-A-04200; HS40-1FR4P-0254
 Holleman, I.; **Overeem, A.**
 Long-term verification of bias-adjusted radar precipitation estimates

A0255; EGU2007-A-07370; HS40-1FR4P-0255
Marx, A.; Kunstmann, H.; Bárdossy, A.; Seltmann, J.; Seiler, W.
 Adjustment of a robust Q-Z/R-relationship for hydrological modelling using observed river discharge data

A0256; EGU2007-A-10736; HS40-1FR4P-0256
Kidd, C.; Muller, C
 Comparison of Doppler micro rain radars and tipping bucket rain gauges (cancelled)

A0257; EGU2007-A-08807; HS40-1FR4P-0257
Leijnse, H.; Uijlenhoet, R.; Stricker, H.
 Uncertainties in microwave link rainfall estimates examined using high-resolution weather radar data

A0258; EGU2007-A-08827; HS40-1FR4P-0258
Leijnse, H.; Uijlenhoet, R.
 The effect of variations in the microstructure of rain on the uncertainty in dual-frequency and dual-polarization microwave link rainfall estimation

A0259; EGU2007-A-09988; HS40-1FR4P-0259
van de Beek, R.; Leijnse, H.; Uijlenhoet, R.; Stricker, H.; Russchenberg, H.
 Rainfall estimation using a high-resolution X-band radar

A0260; EGU2007-A-11581; HS40-1FR4P-0260
Uijlenhoet, R.; Leijnse, H.; Berne, A.; Unal, C.; Russchenberg, H.
 Single-, dual- and triple-moment rain rate retrieval using vertically pointing Doppler radar

A0261; EGU2007-A-11586; HS40-1FR4P-0261
Uijlenhoet, R.; Leijnse, H.
 Measurements of rainfall microstructure at CESAR using a 2D video disdrometer during BBC2

HS41 Statistical concepts in understanding and modelling hydro-climatic change (co-listed in NP, CL and AS)

Convener: Lins, H.
 Co-Convener(s): Bunde, A., Dolman, H., Koutsoyiannis, D., Pegram, G.
 Lecture Room 31
 Chairperson: KOUTSOYIANNIS, D.

13:30–13:45; EGU2007-A-05619; HS41-1FR3O-001
Koutsoyiannis, D.; **Montanari, A.**
 Long term persistence and uncertainty on the long term

13:45–14:00; EGU2007-A-02419; HS41-1FR3O-002
Mudelsee, M.
 Explaining the Hurst phenomenon by spatial aggregation

14:00–14:15; EGU2007-A-01573; HS41-1FR3O-003
Livina, V.; Ashkenazy, Y.; Kizner, Z.; Bunde, A.; Havlin, S.
 New statistical techniques in studying the river flux and evaluating hydrological models (solicited)

14:15–14:30; EGU2007-A-05418; HS41-1FR3O-004
Kahya, E.; Cengiz, T.M.
 The NAO Influences on Sapanca Lake-levels by Wavelet Analysis (solicited)

14:30–14:45; EGU2007-A-03131; HS41-1FR3O-005
Srikanthan, R.; Peel, M C; Pegram, G G S; McMahon, T A
 Low frequency climate variability and stochastic modelling of annual rainfall data

14:45–15:00; EGU2007-A-02726; HS41-1FR3O-006
Kallache, M.; Rust, H.W.; Lange, H.; Kropp, J.
 A point process characterisation of river discharge extreme events incorporating non-stationarity

15:00 END OF SESSION

HS41 Statistical concepts in understanding and modelling hydro-climatic change (co-listed in NP, CL and AS) – Posters

Convener: Lins, H.
 Co-Convener(s): Bunde, A., Dolman, H., Koutsoyiannis, D., Pegram, G.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 15:30–17:00
 Poster Area Hall A
 Chairperson: MONTANARI, A.

A0262; EGU2007-A-11249; HS41-1FR4P-0262
Mackey, R.; Papalexiou, S.-M.
 Sources of the stochastic regulation of climate

A0263; EGU2007-A-06067; HS41-1FR4P-0263
 McMahon, Tom; **Pegram, Geoff;** Peel, MC
 An Empirical Mode Decomposition (EMD) model for stochastic generation of hydro-climatological time series

A0264; EGU2007-A-06651; HS41-1FR4P-0264
Molini, A.; La Barbera, P.; Lanza, L.G.
 The role of uncertainty and accuracy of measured data in the assessment of climatological patterns from rainfall time series

A0265; EGU2007-A-02154; HS41-1FR4P-0265
Jovanovski, V.; Delipetrov, T.
 Auto-regressive integrated moving average (ARIMA) modeling of rainfall process: estimation and forecast

A0266; EGU2007-A-03231; HS41-1FR4P-0266
Lu, M.-M.
 Variations of annual frequency of extreme rainfall events in Taiwan during 1951-2005

A0267; EGU2007-A-09504; HS41-1FR4P-0267
Laux, P.; Kunstmann, H.; Bárdossy, A.
 Stochastic rainfall simulation for the rainy season of the Volta basin in West Africa

A0268; EGU2007-A-07929; HS41-1FR4P-0268
Hanafin, J. A.; McGrath, R.; Lynch, P.; Semmler, T.; Wang, S.; Dunne, S.; Nolan, P.
 Evaluating and comparing downscaling techniques for regional precipitation modelling.

A0269; EGU2007-A-05042; HS41-1FR4P-0269
Pandzic, K.; Trninic, D.; Likso, T.; Bosnjak, T.
 Long-period variations of water balance components for Croatia

A0270; EGU2007-A-05423; HS41-1FR4P-0270
Kahya, E.; Demirel, M.C.
 Evaluation of Multivariate Statistical Methods for Characterizing Annual Streamflow Regimes in Turkey

A0271; EGU2007-A-00169; HS41-1FR4P-0271
Domínguez, E.; Kovalenko, V.; Khaustov, V.; Rivera, H.
 The use of conditioned probability density curves for hydropower planning at long, medium and short term time framework: A Colombian case study (cancelled)

A0272; EGU2007-A-09797; HS41-1FR4P-0272
Parviz, L.; Kholghi, M.
 Streamflow Forecasting Using Temporal And Spatial Disaggregation Method

A0273; EGU2007-A-06328; HS41-1FR4P-0273
Lange, H.; Mahecha, M.D.
 Detection of climate induced long term oscillatory patterns in river discharge behaviour on regional scales

A0274; EGU2007-A-10675; HS41-1FR4P-0274
Willems, P.; Boukhris, O.
 Climate change impact on hydrological extremes along rivers in Belgium

HS45 Modelling and observation of hydrological and biological processes in West Africa (co-listed in BG)

Convener: Kunstmann, H.
Co-Convener(s): MOUGIN, E., Boone, A.
Lecture Room 31
Chairperson: KUNSTMANN H.

15:30–15:45; EGU2007-A-02246; HS45-1FR4O-001
Nieto, R.; Gimeno, L.; **Trigo, R.**
A Lagrangian identification of major sources of Sahel moisture

15:45–16:00; EGU2007-A-01661; HS45-1FR4O-002
van de Giesen, N; Ayodele, A; Bagayoko, F; Stomph, TJ
From point to slope: Measured and modeled scale effects of Hortonian surface runoff in West Africa

16:00–16:15; EGU2007-A-08304; HS45-1FR4O-003
Wagner, S.; Kunstmann, H.; Bárdossy, A.; Conrad, C.
Water balance simulations in a poorly gauged basin using different meteorological and land surface data sources

16:15–16:30; EGU2007-A-08323; HS45-1FR4O-004
Mangiarotti, S.; Baup, F.; Jarlan, L.; Mazzega, P.; Mougin, E.
Modelling contrasted yearly rainfall impacts on sahelian vegetation via a bi-objective data assimilation scheme (biomass and LAI in situ data)

16:30–16:45; EGU2007-A-03709; HS45-1FR4O-005
Stisen, S.; Sandholt, I.; Nørgaard, A.; Fensholt, R.; Jensen, K.H.
Combined thermal inertia- and triangle-method to estimate surface evapotranspiration using MSG-SEVIRI data – Applied to the Senegal River basin.

16:45–17:00; EGU2007-A-08887; HS45-1FR4O-006
Tia, L.; Szarzynski, J.; Vlek, P. L.
Ecological modeling of tree patterns and diversity as a means of classifying savanna landscapes: Remote sensing and GIS-based mapping

17:00 END OF SESSION

HS45 Modelling and observation of hydrological and biological processes in West Africa (co-listed in BG) – Posters

Convener: Kunstmann, H.
Co-Convener(s): MOUGIN, E., Boone, A.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00
Poster Area Hall A
Chairperson: N.N.

A0275; EGU2007-A-02335; HS45-1FR2P-0275
Carrer, D.; **Roujean, J.L.;** Hauteceur, O.; Geiger, B.; Meurey, C.
SAF programme on Land Surface Analysis: an operational production of surface parameters over West Africa based on MSG observations

A0276; EGU2007-A-05257; HS45-1FR2P-0276
Sandwidi, J-P; Van de Giesen, N; Rodgers, C
Flow processes in groundwater recharge to a crystalline basement aquifer in a semi-arid West African river basin

A0277; EGU2007-A-05571; HS45-1FR2P-0277
Harris, P. P.; **Taylor, C. M.**
Assimilation of MSG land-surface temperature into land-surface model simulations to constrain estimates of surface energy budget in West Africa

A0278; EGU2007-A-06833; HS45-1FR2P-0278
Saux Picart, S.; Ottlé, C.; Perrier, A.; Decharme, B.; Coudert, B.; Zribi, M.; Cappelaere, B.; Boulain, N.
SEtHyS_Savannah: a three source land surface model applied to a sahelian landscape

A0279; EGU2007-A-07666; HS45-1FR2P-0279
Guyot, A.; Cohard, J-M.; Galle, S.
Energy balance at a catchment scale using an infrared scintillometer and soil measurements

A0280; EGU2007-A-08555; HS45-1FR2P-0280
Brümmer, C.; Brüggemann, N.; Wassmann, R.; Falk, U.; Szarzynski, J.; Papen, H.
Biosphere-atmosphere exchange of N₂O, CH₄ and CO₂ in natural savannah and rainfed agriculture in Burkina Faso (W Africa)

A0281; EGU2007-A-08958; HS45-1FR2P-0281
Watrin, J.; Friend, A.; Zaehle, S.; Lézine, A.-M.
Modelling vegetation dynamics in West Africa during the Holocene and links to in situ proxy data

A0282; EGU2007-A-08987; HS45-1FR2P-0282
Falk, U.; Szarzynski, J.; Landmann, T.; Schmidt, M.
Impact of climate and environmental changes on regional biodiversity. Results and perspectives from the BIOTA West Africa and GLOWA Volta research networks in West Africa

A0283; EGU2007-A-09080; HS45-1FR2P-0283
Sandwidi, J-P; van de Giesen, N; Rodgers, C
Flow processes in groundwater recharge to a crystalline basement aquifer in a semi-arid West African river basin

A0284; EGU2007-A-09099; HS45-1FR2P-0284
de Rosnay, PdR; Gruhier, CG; Baup, FB; Kergoat, LK; Mougin, EM; Timouk, FT; Hiernaux, PH; Richaume, PR; Kerr, YK
Soil moisture remote sensing over the Gourma mesoscale site

A0285; EGU2007-A-09708; HS45-1FR2P-0285
Lehmann, el; Grote, rg; Kunstman, hk
A process-based model for simulating biosphere-atmosphere interactions in natural savannah and rainfed agriculture in Burkina Faso West Africa

A0286; EGU2007-A-10221; HS45-1FR2P-0286
Nyarko, B.K.; Diekrüger, B.; Rodgers, C.; Van de Gessien, N.
Modeling unsaturated zone of floodplain wetlands in the white volta basin, Ghana

A0287; EGU2007-A-10737; HS45-1FR2P-0287
Boone, A; deRosnay, P; Polcher, J; THE ALMIP Working Group
AMMA Land surface Model Intercomparison Project (ALMIP) Phase I Results

A0288; EGU2007-A-10824; HS45-1FR2P-0288
Pellarin, T.; Laurent, J.P.; Decharme, B.; Chopin, F.; de Rosnay, P.; Boone, A.; Descroix, L.; Cappelaere, B.
Potential and limitation of AMSR-E microwave measurements over Niger for improving water cycle modelling under uncertain rainfall fields

A0289; EGU2007-A-11056; HS45-1FR2P-0289
Noergaard, A; **Stisen, S;** Sandholt, I
Distributed SVAT modelling using remotely sensed data products

Magnetism, Palaeomagnetism, Rock Physics & Geomaterials

MPRG07 Open session in rock magnetism and paleomagnetism

Convener: Franke, C.
Co-Convener(s): Vasiliev, I.
Lecture Room 34
Chairperson: FRANKE, C., VASILIEV, I.

8:30–9:00; EGU2007-A-07378; MPRG07-1FR10-001
Rey, D.

Stratigraphic significance of detrital and diagenetic rock magnetic features of recent marine sediments across the North Western Atlantic Iberian Margin (solicited)

9:00–9:15; EGU2007-A-09912; MPRG07-1FR10-002
Mohamed, K.; Rey, D.; Rubio, B.; Vilas, F.

Early diagenesis of magnetic minerals as a characteristic feature of ria environments. A conceptual model.

9:15–9:30; EGU2007-A-06754; MPRG07-1FR10-003
Franke, C.; Fu, Y.; Heslop, D.; Kasten, S.; Gilhooly, W.; Jiang, S.-Y.; von Dobeneck, T.

Time constraints, magnetic mineralogy and geochemistry for overpressured sediments from the continental slope in the northwestern Gulf of Mexico (IODP Exp. 308)

9:30–9:45; EGU2007-A-01413; MPRG07-1FR10-004
Hüsing, S.K.; Dekkers, M.J.; Krijgsman, W.

A stable remanent magnetization carried by greigite

9:45–10:00; EGU2007-A-01169; MPRG07-1FR10-005
Ambejoh, L..E

Characterising Cameroon Line Volcanic Rocks based on their Magnetic Petrology

10:00 COFFEE BREAK

Chairperson: FRANKE, C., VASILIEV, I.

10:30–10:45; EGU2007-A-04932; MPRG07-1FR20-001
Fabian, K.; Shcherbakov, V. P.; McEnroe, S.; Robinson, P.
A mechanism of exchange bias in nanoscale lamellar exsolution systems of paramagnetic ilmenite in antiferromagnetic hematite

10:45–11:00; EGU2007-A-06689; MPRG07-1FR20-002
Heslop, D.; Dillon, M.
Unmixing magnetic remanence curves without a priori knowledge

11:00–11:15; EGU2007-A-05678; MPRG07-1FR20-003
Muxworthy, A.; Williams, W.
Critical single-domain/multidomain grain-sizes in non-interacting and interacting elongated magnetite particles: implications for magnetosomes.

11:15–11:30; EGU2007-A-02558; MPRG07-1FR20-004
Szőnyi, M.; Sagnotti, L.; Hirt, A.M.
On leaf magnetic homogeneity in particulate matter biomonitoring studies

11:30–11:45; EGU2007-A-07851; MPRG07-1FR20-005
Roeser, H. A.
Geomagnetic observations at a lightning stroke place

11:45–12:00; EGU2007-A-03407; MPRG07-1FR20-006
Oliva-Urcia, B.; Roman-Berdiel, T.; Pueyo, E.; Antolin-Tomas, B.; Casas, A.; Gil-Pena, I.; Soto-Marin, R.
Implications of the magnetic mineralogy in the magnetic susceptibility from three granitic plutons of the Axial Zone of the Pyrenees, Spain.

12:00 LUNCH BREAK

Chairperson: VASILIEV, I., FRANKE, C.

13:30–13:45; EGU2007-A-07612; MPRG07-1FR30-001
Vasiliev, I.; Dekkers, M. J.; Krijgsman, W.; Franke, C.; Langereis, C. G.; Mullender, T. A.

Greigite as recorder of paleomagnetic and paleoenvironmental signals in the Pliocene sedimentary rocks of the Carpathian foredeep (Romania)

13:45–14:00; EGU2007-A-07123; MPRG07-1FR30-002
Paterson, G.; Viramonte, J.; Roberts, A.
Emplacement temperatures of pyroclastic flows using palaeomagnetic techniques: Láscar, Chile

14:00–14:15; EGU2007-A-06839; MPRG07-1FR30-003
DEENEN, M.H.L.; Reitsma, M.J.; Krijgsman, W.; Langereis, C.G.; van Bergen, M.J.
The CAMP controversy, new data from the Argana Basin, Morocco

14:15–14:30; EGU2007-A-03825; MPRG07-1FR30-004
Muttoni, G.; Kent, D.V.; Jadoul, F.; Rigo, M.; Galli, M.T.
Rhaetian magnetostratigraphy from the Southern Alps (Italy): constraints on the Triassic chronology

14:30–14:45; EGU2007-A-09774; MPRG07-1FR30-005
Krystyn, L.; Gallet, Y.; Marcoux, J.; Besse, J.; Kuerschner, W.
Towards a multi-stratigraphic global correlation of the late Upper Triassic (solicited)

14:45–15:00; EGU2007-A-10594; MPRG07-1FR30-006
Hounslow, M.W.; Szurlies, M.
The geomagnetic polarity timescale for the Lower Triassic, utilising data from the Buntsandstein and the Boreal Triassic (solicited)

15:00 END OF SESSION

Natural Hazards

NH2.02 Operational tools for flash-flood forecasting (co-listed in HS) – Posters

Convener: Aronica, G.
Co-Convener(s): Borga, M., Moore, R., Mancini, M.
Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 08:30–10:00
Poster Area Halls X/Y
Chairperson: ARONICA, G.

XY0345; EGU2007-A-01276; NH2.02-1FR1P-0345
Versini, P.-A.; Andrieu, H.; Gaume, E.
A simple method based on GIS to estimate the hydrological risk along a road network

XY0346; EGU2007-A-01350; NH2.02-1FR1P-0346
Kumar, R.; Cullmann, J.; Schmitz, G.H.; Raghuwanshi, N.S.
Online flood forecasting using artificial neural network

XY0347; EGU2007-A-05231; NH2.02-1FR1P-0347
Antonescu, B.; Oprea, C.; Stan-Sion, A.
The relationship between cloud-to-ground lightning and flash-flood events in Romania

XY0348; EGU2007-A-06264; NH2.02-1FR1P-0348
Norbiato, D.; Borga, M.
Flash Floods forecasts based on rainfall thresholds: application in an alpine region

XY0349; EGU2007-A-06944; NH2.02-1FR1P-0349
Ravazzani, G.; Mancini, M.; Amadio, P.; Giudici, I.
Effects of Soil Moisture Parameterization on a Real Time
Flood Forecasting System based on Rainfall Thresholds

XY0350; EGU2007-A-07698; NH2.02-1FR1P-0350
Zvolenský, M.; Parajka, J.; **Hlavcová, K.**; Kohnová, S.;
Szolgay, J.

Comparison of methods for estimation of rainfall-runoff
model parameters in ungauged basins

XY0351; EGU2007-A-08075; NH2.02-1FR1P-0351

Cole, S.J.; Moore, R.J.

Hydrological modelling at gauged and ungauged locations
using radar- and raingauge-based rainfall estimators

XY0352; EGU2007-A-09066; NH2.02-1FR1P-0352

Alessi Celegon, E.; Nicòtina, L.; Botter, G.; Rinaldo, A.;
Marani, M.; Ristic, I.; Sanò, A.

A coupled hydrometeorological modelling approach for
flood forecasting: a case study

XY0353; EGU2007-A-09421; NH2.02-1FR1P-0353

Kóródy, G.; Kázmér, M.; Székely, B.

Estimating runoff and maximum flood on dtm by the Rain-
drop program for the Bábaapáti nuclear waste repository,
Hungary

XY0354; EGU2007-A-10559; NH2.02-1FR1P-0354

Holzmann, H.; Lehmann, T

Operational event based flood forecasting with emphasise
on the estimation of the initial state conditions

XY0355; EGU2007-A-11027; NH2.02-1FR1P-0355

Stary, M.; Dolezal, P.; Jaros, L.; Janal, P.; Brezkova, L.

Operative prediction and control of the flood passage

NH2.03 Uncertainty and non stationarity in flood risk predictions (co-listed in HS) – Posters

Convener: Aronica, G.

Co-Convener(s): Apel, H., Bates, P.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 08:30–10:00

Poster Area Halls X/Y

Chairperson: APEL, H.

XY0356; EGU2007-A-03003; NH2.03-1FR1P-0356

Markus, M.; Hejazi, M.; Yang, L.

Uncertainties in design rainfall and flood peaks based on
period of record, region and statistical distributions in
northeastern Illinois

XY0357; EGU2007-A-03515; NH2.03-1FR1P-0357

Chennu, S.; Gresillon, J-M; Dartus, D; Poulard, C; Faure, J-
B; Maubourguet, M-M; Leblois, E

Flood mitigation via dispersed hydraulic structures at
watershed scale

XY0358; EGU2007-A-03536; NH2.03-1FR1P-0358

Kuèia, K.; **Mikoš, M.**

Using L-moments to Statistically Determine High and
Extreme Flows in Slovenia

XY0359; EGU2007-A-04588; NH2.03-1FR1P-0359

Chung, C.; Journeay, M

Prediction model for refining flood hazard assessment: Ap-
plication to risk reduction planning in Squamish, BC, Canada

XY0360; EGU2007-A-08232; NH2.03-1FR1P-0360

Büttner, O.

The influence of topographic and mesh resolution in 2D
hydrodynamic modelling for floodplains and urban areas

XY0361; EGU2007-A-08420; NH2.03-1FR1P-0361

Neuhold, C.; Stanzel, Ph.; Nachtnebel, H.-P.

Modelling morphological changes during floods utilised as
impact on flood risk assessment.

XY0362; EGU2007-A-08578; NH2.03-1FR1P-0362

Buchwald, I.; Belli, A.; Haberlandt, U.

Estimating extreme Floods using disaggregated Rainfall
Time Series and continuous Rainfall Runoff Modelling

XY0363; EGU2007-A-08711; NH2.03-1FR1P-0363

Vorogushyn, S.; **Apel, H.**; Lindenschmidt, K.-E.; Merz, B.
Probabilistic flood hazard maps under consideration of dike
failures

XY0364; EGU2007-A-09562; NH2.03-1FR1P-0364

Stanzel, Ph.; Neuhold, C.; Nachtnebel, H.P.

Estimation of design floods for ungauged basins in an alpine
watershed

XY0365; EGU2007-A-09897; NH2.03-1FR1P-0365

Rust, H. W.; Kallache, M.; Kropp, J.

Effects of Ignoring or Imposing Long-Range Dependence
on the Uncertainty of Return Level Estimates

XY0366; EGU2007-A-11530; NH2.03-1FR1P-0366

Apel, H.; Merz, B.; Thielen, A. H.

Influence of dike breaches on flood frequency estimation

NH2.04 Risk assessments of complex flood situations (co-listed in HS) – Posters

Convener: Kreibich, H.

Co-Convener(s): White, K.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: KREIBICH, H.

XY0367; EGU2007-A-01567; NH2.04-1FR2P-0367

Lindquist, E.

Extreme urban flooding as a focusing event: the case of
Tropical Storm Allison

XY0368; EGU2007-A-04225; NH2.04-1FR2P-0368

El kadi Abderrezzak, K.; Paquier, A.

Modelling of flash flood propagation in urban areas using
2-D hydraulic numerical models

XY0369; EGU2007-A-10168; NH2.04-1FR2P-0369

Sudhaus, D.; Seidel, J.; Bürger, K.; Dostal, P.; Glaser, R.;
Mayer, H.

Determining Flood Discharges of past Flood Events using
historical River Profiles (cancelled)

XY0370; EGU2007-A-10169; NH2.04-1FR2P-0370

Seidel, J.; Dostal, P.; Bürger, K.; Glaser, R.; Mayer, H.

Reconstruction and Analysis of 19th century Floods in
SW-Germany. Case Studies of the extreme Floods in 1824
and 1882 (cancelled)

XY0371; EGU2007-A-03443; NH2.04-1FR2P-0371

Rodda, H.; Shankar, U; Grabert, J

A spatial analysis of historical river flood events in Norway
and Sweden

XY0372; EGU2007-A-07429; NH2.04-1FR2P-0372

Kohnova, S.; Parajka, J.; Szolgay, J.; Hlavcova, K.

Extreme Precipitation Mapping for Flood Risk Assessment
in Ungauged Basins of Slovakia

XY0373; EGU2007-A-06894; NH2.04-1FR2P-0373

Llorente-Isidro, M.; Diez-Herrero, A.; Lain-Huerta, L.

PRIGEO Flood hazard map: new insights for risk assess-
ment tools

XY0374; EGU2007-A-10186; NH2.04-1FR2P-0374

de Moel, H.; Aerts, J.

Flood risk mapping in Europe: A comparative evaluation of methods, availability and applications

XY0375; EGU2007-A-08233; NH2.04-1FR2P-0375

Ruch, C. A.; Jørgensen, G.; Schatzl, R.

Including flood mapping in forecasting systems

XY0376; EGU2007-A-11519; NH2.04-1FR2P-0376

Kreibich, H.; Hristova, B.; Thieken, A.H.

Analysis of the difference of flood impact and damage during riverine floods, flash floods and levee breaches

XY0377; EGU2007-A-08058; NH2.04-1FR2P-0377

Seifert, I.; Kreibich, H.; Thieken, A.; Merz, B.

Application of an empirical model for the estimation of flood losses in the business sector

NH2.05 Integrated Natural Hazard Protection (floods and mass movement): Structural and nonstructural measures – state-of-the-art (co-listed in HS) – Posters

Convener: Huebl, J.

Co-Convener(s): Rudolf-Miklau, F.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: RUDOLF-MIKLAU, F.

XY0378; EGU2007-A-07765; NH2.05-1FR2P-0378

Vilajosana, I.; Bacher, M.; Suriñach, E.; Hübl, H.; Khazaradze, G.; Garcia de Yébenes, L.

Mud flow detection experiments at Schesatobel, Austria

XY0379; EGU2007-A-03452; NH2.05-1FR2P-0379

Praschnig, P.; Huebl, H.

Structural and Non-structural measures to control debris flows at Riegersbach catchment, Austria

XY0380; EGU2007-A-01631; NH2.05-1FR2P-0380

Fuchs, S.; Dorner, W.; Serrhini, K.

Development of flood risk in mountain catchments and related perception

XY0381; EGU2007-A-11250; NH2.05-1FR2P-0381

Rudolf-Miklau, F.

Application of life cycle cost models to technical protection measures

XY0382; EGU2007-A-06305; NH2.05-1FR2P-0382

Holub, M.

Local structural protection for buildings within natural hazard risk management

XY0383; EGU2007-A-03425; NH2.05-1FR2P-0383

Thaler, T.; Huebl, H.; Holub, H.

Active mitigation measures at Angerbach catchment, Austria, and their performance during the June 2006 flood

XY0384; EGU2007-A-09889; NH2.05-1FR2P-0384

Wagner, K.

How to avoid the Safe Development Paradox

NH3.10 Estimating landslide hazards and risk (co-listed in GM)

Convener: Reichenbach, P.

Co-Convener(s): Schneider, J.

Lecture Room 18

Chairperson: REICHENBACH, P.

8:30–8:45; EGU2007-A-03519; NH3.10-1FR1O-001

Zêzere, J.L.; Garcia, R.A.C.; Oliveira, S.C.

The influence of statistical models and terrain mapping units on landslide susceptibility assessment at the regional scale

8:45–9:00; EGU2007-A-02783; NH3.10-1FR1O-002

Klimes, J.

Landslide susceptibility maps evaluation

9:00–9:15; EGU2007-A-11195; NH3.10-1FR1O-003

Melzner, S.; Glade, T.; Bonte- Grapentin, M.

Establishing a qualitative landslide susceptibility approach for a tropical region- Navua Catchment, South Viti Levu, Fiji Islands

9:15–9:30; EGU2007-A-06216; NH3.10-1FR1O-004

Lee, C.T.; Huang, C.C.; Lee, C.F.; Pan, K.L.; Lin, M.L.; Dong, J.J.

Event-Based Landslide Susceptibility Analysis ;V an Example from Central Western Taiwan

9:30–9:45; EGU2007-A-09570; NH3.10-1FR1O-005

Poli, S.; Sterlacchini, S.; Zucca, F.; Meisina, C.; Frigerio, S.; Deamicis, M.; Sironi, S.; Villa, F.

Landslide susceptibility by spatial analysis of two drainage basins, upper Oltrepo Pavese, Italy.

9:45–10:00; EGU2007-A-10828; NH3.10-1FR1O-006

Catani, F.; Segoni, S.; Falorni, G.

Accurate basin scale soil depth modelling and its impact on shallow landslides prediction

10:00 COFFEE BREAK

Chairperson: SCHNEIDER, J.

10:30–10:45; EGU2007-A-10688; NH3.10-1FR2O-001

Ascione, A.; Cinque, A.; Franza, A.; **Perriello Zampelli, S.;** Romano, P.

Shallow landsliding of pyroclastic soil covers in Campania (Italy): geomorphological characterization for spatial hazard assessment

10:45–11:00; EGU2007-A-00012; NH3.10-1FR2O-002

Claessens, L.; Knapen, A.; Kitutu, M.G.; Poesen, J.; Deckers, J.A.

Modelling landslide hazard, soil redistribution and sediment yield of landslides on the Ugandan footslopes of Mount Elgon

11:00–11:15; EGU2007-A-05345; NH3.10-1FR2O-003

Katz, O.; Almog, E.

Landslide hazard in Northern Israel; A 1:200,000 scale map and a GIS based hazard evaluation computer-code

11:15–11:30; EGU2007-A-08977; NH3.10-1FR2O-004

Castaldini, D.; **Ghini, A.**

Geomorphological hazard assessment in the mountain basin of the Panaro River (Northern Apennines, Italy)

11:30–11:45; EGU2007-A-02181; NH3.10-1FR2O-005

Reichenbach, P.; Guzzetti, F.; Ardizzone, F.; Cardinali, M.; Galli, M.; Peruccacci, S.; Rossi, M.

National scale assessment of landslide hazard and risk in Italy

11:45–12:00; EGU2007-A-04353; NH3.10-1FR2O-006

Huggel, C.; Calvache, M.; González, H.; Mayorga, R.; Ramírez, J.M.; Sánchez, R.

Landslide risks and associated management strategies in the Combeima region, Tolima, Colombia

12:00 END OF SESSION

NH3.10 Estimating landslide hazards and risk (co-listed in GM) – Posters

Convener: Reichenbach, P.

Co-Convener(s): Schneider, J.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: SCHNEIDER, J.

XY0385; EGU2007-A-06581; NH3.10-1FR3P-0385

The 'Mountain Risks' research team, -; The 'Mountain Risks' research team
The 'Mountain Risks' research project: challenges in risk prediction, management and governance.

XY0386; EGU2007-A-06692; NH3.10-1FR3P-0386

Van Asch, T.W.J.; The 'Mountain Risks' research team, -
The 'Mountain Risks' research project: challenges in hazard analysis.

XY0387; EGU2007-A-06772; NH3.10-1FR3P-0387

Giacomelli, P.; Sterlacchini, S.; and the 'Mountain Risks' research team, -
The 'Mountain Risks' research project: challenges in vulnerability analysis and quantitative risk assessment.

XY0388; EGU2007-A-06788; NH3.10-1FR3P-0388

Corominas, J.; The 'Mountain Risks' research team, -
The 'Mountain Risks' research project: challenges in risk management.

XY0389; EGU2007-A-06800; NH3.10-1FR3P-0389

Glade, T.; Greiving, S.; The 'Mountain Risks' research team, -
The 'Mountain Risks' research project: challenges in risk governance.

XY0390; EGU2007-A-00098; NH3.10-1FR3P-0390

Fourniadis, I.G.; Liu, J.G.
Remote Sensing for Landslide Impact Assessment

XY0391; EGU2007-A-03569; NH3.10-1FR3P-0391

Shamsuddin, A H; Hussein, A N; K M Hanifah, H M; Majid, R; Othman, M A; Lloyd, D M
The development of state of the art slope management and risk tracking system for Malaysia: the SMART System

XY0392; EGU2007-A-11199; NH3.10-1FR3P-0392

Thiebes, B.; Bell, R.; Glade, T.
Deterministic landslide susceptibility analysis using SIN-MAP - a case study in the Swabian Alb

XY0393; EGU2007-A-08899; NH3.10-1FR3P-0393

Constantin, M.
The landslide susceptibility map in the Panatau Basin, Buzau Subcarpathians, Romania

XY0394; EGU2007-A-03534; NH3.10-1FR3P-0394

Zêzere, J.L.; Faleh, A.; Sadiki, A.; Garcia, R.A.C.; Oliveira, S.C.; Vieira, G.T.
Landslide susceptibility assessment and validation in the Oued Sra catchment, Central Rif, Morocco

XY0395; EGU2007-A-10615; NH3.10-1FR3P-0395

Melchiorre, C.; Castellanos, E.; Matteucci, M.
Analysis of sensitivity in Artificial Neural Network models: application in landslide susceptibility zonation, Guantánamo Province, Cuba

XY0396; EGU2007-A-09003; NH3.10-1FR3P-0396

Generali, M.; Leoni, E.; Pizziolo, M.; **Martina, M.L.V**
Application of a logistic regression model for landslide susceptibility mapping in the Emilia-Romagna region

XY0397; EGU2007-A-02894; NH3.10-1FR3P-0397

Fontan, D.; Stringa, I.; Delle Piane, L.; **Murgese, D. S.**
Shallow-landslides hazard assessment by means of fully-coupled models

XY0398; EGU2007-A-00602; NH3.10-1FR3P-0398

Koorkinejad, Masoo
applicability of Mora- Vahrson landslide hazard zonation model(a case study Ciaroodbar watershed,Iran)

XY0399; EGU2007-A-08288; NH3.10-1FR3P-0399

Jan, C. D.; Ko, C. P.
Estimating hazards potential by a landslide dam in the Chihpen river, Taiwan

XY0400; EGU2007-A-10381; NH3.10-1FR3P-0400

Komac, B.; Zorn, M.
Probabilistic landslide hazard map with a fifty years reoccurrence period

XY0401; EGU2007-A-06606; NH3.10-1FR3P-0401

Delmonaco, G.; Ferrara, F.; Maccarini, F.; Margottini, C.; **Spizzichino, D.**
Landslide hazard assessment, stability analysis modelling and mitigation measures applied to the archaeological area the ancient Stabiae (Gulf of Naples, Italy)

XY0402; EGU2007-A-11196; NH3.10-1FR3P-0402

Bell, R.; Röhrs, M.; Glade, T.; Dix, A.
Combining historic information and high resolution DEMs to improve the understanding of today's maximum possible landslide events and its relevance for hazard assessment

XY0403; EGU2007-A-05925; NH3.10-1FR3P-0403

Chen, L.K.; Yu, F.C.; Chen, L.C.; Wu, M.H.; Chang, C.H.; Lin, S.C.; Lin, Y.C.; Lee, C.L.; Wang, Y.T.
Risk analysis for landslide disaster in Taiwan

XY0404; EGU2007-A-04872; NH3.10-1FR3P-0404

Mahler, C.; **Varanda, E.**
Quantitative Risk Mapping of Landslides for the 1st District of Petropolis city using GIS

NH4.02 Electric, magnetic and electromagnetic phenomena related to earthquakes (co-listed in SM) – Posters

Convener: Biagi, P.

Co-Convener(s): Molchanov, O., Hayakawa, M., VAL-LIANATOS, F.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: BIAGI, P.F.

XY0405; EGU2007-A-00693; NH4.02-1FR3P-0405

Moldovan, I. A.; Moldovan, A. S.; Panaiotu, C. G.; Echim, M. M.
The geomagnetic method on precursory phenomena associated with 2004 significant intermediate Vrancea seismic activity

XY0406; EGU2007-A-00724; NH4.02-1FR3P-0406

Zakharenkova, I.E.; Shagimuratov, I.I.; Krankowski, A.; Tepenitsina, N.Yu.
Using measurements of navigating system GPS for investigation of preseismic ionospheric effects

XY0407; EGU2007-A-01199; NH4.02-1FR3P-0407

Schekotov, A.; **Molchanov, O.;** Fedorov, E.; Chebrov, V.; Sinitsin, V.; Gordeev, E.; Belyaev, G.; Hayakawa, M.
ULF/ELF magnetic field variations in atmosphere probably induced by

XY0408; EGU2007-A-02081; NH4.02-1FR3P-0408
Marquez-Cruz, J.; Ramírez-Rojas, A.; Flores-Marquez, E. L.
 Statistical behavior of the seismic electric signals associated to two earthquakes of 1993 in Mexico

XY0409; EGU2007-A-02197; NH4.02-1FR3P-0409
Kachakhidze, N.; Kachakhidze, M.; Ramishvili, G.
 atmospheric potential gradient anomaly perturbations as a earthquake precursor

XY0410; EGU2007-A-04117; NH4.02-1FR3P-0410
Masci, F.; Palangio, P.; Di Persio, M.; Meloni, A
 Development of the INGV tectonomagnetic network inside the MEM project

XY0411; EGU2007-A-04120; NH4.02-1FR3P-0411
Konstantaras, A.; **Vallianatos, F.;** Varley, M. R.; Makris, J. P.
 On the observed EEP signal attributed to the Kythira M 6.9 earthquake in January 2006

XY0412; EGU2007-A-04144; NH4.02-1FR3P-0412
Palangio, P.; Di Lorenzo, C.; Di Persio, M.; Masci, F.; Santarelli, L
 Electromagnetic anomaly associated with Earth crustal activity in the frequency band from 0.001 Hz to 5 kHz

XY0413; EGU2007-A-05142; NH4.02-1FR3P-0413
Bogdanov, Yu.; Zakharov, I.
 Earthquakes appearance in VLF magnetic field variations at regional and global scales

XY0414; EGU2007-A-05293; NH4.02-1FR3P-0414
Steinitz, G.; Piatibratov, O.; Barbosa, S.M.
 Statistical characteristics of Radon time series in the Elat Granite, Israel

XY0415; EGU2007-A-05297; NH4.02-1FR3P-0415
Steinitz, G.; Barbosa, S.M.
 Indications for solar influences on the radon system in geogas

XY0416; EGU2007-A-05309; NH4.02-1FR3P-0416
Takashi Maeda, T.; Tadashi Takano, T.
 Definitive evidence of the earthquake-origin microwave emission in the passive sensor data of a remotesensing satellite

XY0417; EGU2007-A-05945; NH4.02-1FR3P-0417
Omori, Y.; Yasuoka, Y.; Nagahama, H.; Kawada, Y.; Ishikawa, T.; Tokonami, S.; Shinogi, M.
 Variation of electric parameters in atmosphere due to radon exhalation prior to a large earthquake

XY0418; EGU2007-A-06155; NH4.02-1FR3P-0418
Gousheva, M.; Glavcheva, R.; Danov, D.; Hristov, P.; Matova, M.
 Quasi-static electric field phenomena in the ionosphere associated with pre- and post-earthquakes effectss

XY0419; EGU2007-A-06197; NH4.02-1FR3P-0419
Zeigarnik, V.; **Novikov, V.;** Avagimov, A.; Klyuchkin, V.; Bogomolov, L.; Tarasov, N.
 Release of stresses accumulated in rocks by high-power electric pulses

XY0420; EGU2007-A-06582; NH4.02-1FR3P-0420
Horn, M.; Boudjada, M.Y.; Biernat, H.; Lammer, H.; Schwingenschuh, K.; Prattes, G
 Model calculation of the electrostatic field penetration into the ionosphere

XY0421; EGU2007-A-09616; NH4.02-1FR3P-0421
Prattes, G.; Schwingenschuh, K.; Magnes, W.; Boudjada, M.; Horn, M.; Vellante, M.
 Investigation of electromagnetic ULF/ELF-phenomena possibly related to the july 10th 2005 Podgorica seismic event using South European Ground Magnetometer (SEGMA) and DEMETER data.

XY0422; EGU2007-A-10654; NH4.02-1FR3P-0422
Slominska, E.; **Blecki, J.;** Parrot, M.; Slominski, J.; Berthelier, J.J.
 VLF transmitters signals in the seismic regions-statistical studies of the satellite DEMETER measurements

XY0423; EGU2007-A-10707; NH4.02-1FR3P-0423
Márquez-Cruz, J.; Flores-Márquez, E. L.; Ramírez-Rojas, A.
 Statistical behavior of the seismic electric signals associated to two earthquakes of 1993 in Mexico

XY0424; EGU2007-A-10969; NH4.02-1FR3P-0424
Kotsarenko, A.; Grimalsky, V.; Pérez Enríquez, R.; Valdés-González, C.; Koshevaya, S.; López Cruz-Abeyro, J.A.; Yutsis, V.; Villegas Cerón, R.A.
 Volcano Popocatepetl, Mexico: ULF geomagnetic anomalies observed at Tlamacas station during 2003-2006

NH4.03 Deformation processes and accompanying mechanical and electromagnetic phenomena, for rocks and other materials, from the laboratory to the geophysical scale – Posters

Convener: Eftaxias, K.
 Co-Convener(s): Chelidze, T., Morgounov, V., Nomicos, C., Mandeia, M.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 13:30–15:00
 Poster Area Halls X/Y
 Chairperson: NOMICOS, C.

XY0425; EGU2007-A-00663; NH4.03-1FR3P-0425
Das, N.K.; Bhandari, R.K.; Sen, P.; Sinha, B.; Morgounov, V.
 Monitoring of Geochemical and Electromagnetic signals in seismic area of Himalaya in India.

XY0426; EGU2007-A-02805; NH4.03-1FR3P-0426
Gershenzon, N.; Bambakidis, G.; Hunt, A
 Transport properties of soil in the presence of a seismic wave

XY0427; EGU2007-A-04801; NH4.03-1FR3P-0427
Ruzhin, Yu.Y.; Nomicos, C.; Afraimovich, E. L.; Bershadskaya, I.N.; Koulouras, G.; Fomichev, V. V.
 On possibility of seismic VHF network calibration by simultaneous observations of solar flare radio emission at spaced sites.

XY0428; EGU2007-A-04813; NH4.03-1FR3P-0428
Zakharenkova, I. E.; Ruzhin, Yu.Ya.; Shagimuratov, I.I.; Tepenitsina, N.Yu.; **Shpakovski, V.V.**
 Effect of magnetic storm on the state of pre-seismic ionosphere

XY0429; EGU2007-A-04824; NH4.03-1FR3P-0429
Contoyiannis, Y.; **Eftaxias, K.**
 Is the evolution towards global failure irreversible after the appearance of distinguishing features in the preseismic EM time series?

XY0430; EGU2007-A-04825; NH4.03-1FR3P-0430
Eftaxias, K. A.; **Balasis, G.**
 Is there a unified theory for the ways in which elements of a system organize themselves to produce a behaviour that is typical of large classes systems?

XY0431; EGU2007-A-04836; NH4.03-1FR3P-0431
Karamanos, K.; Papadimitriou, K.; Kalimeri, M.; Athanasopoulou, L.; **Eftaxias, K.**
Entropic Study of a proper "word length" for Catastrophic Events

XY0432; EGU2007-A-05147; NH4.03-1FR3P-0432
Bogdanov, Yu.; Bondarenko, N.
Observations of faults and stress zones through variations of the VLF magnetic field.

XY0433; EGU2007-A-05946; NH4.03-1FR3P-0433
Kawada, Y.; Nagahama, H.; Nakamura, N.
Temporal power-law change in rock magnetization prior to failure

XY0434; EGU2007-A-06845; NH4.03-1FR3P-0434
Zakharenkova, I.E.; Ruzhin, Yu.Y.; Shagimuratov, I.I.; Tepenitsina, N.Yu.; **Shpakovski, V.V.**
Effect of magnetic storm on the state of pre-seismic ionosphere

XY0435; EGU2007-A-10973; NH4.03-1FR3P-0435
Koshevaya, S.V.; Grimalsky, V.V.; Makarets, N.V.; Kotsarenko, A.N.; Siquieros-Alatorre, J.; Pérez-Enríquez, R.; Juárez-Romero, D.
Electromagnetic emission from magnetite plate cracking

NH5.01 Volcanic Hazards: pre-eruptive warnings, quantification of hazards and mitigation of risk (co-listed in GMPV)

Convener: Gottsmann, J.
Co-Convener(s): Carniel, R., Marti, J., Aspinall, W.
Lecture Room 16 (L)
Chairperson: MARTI, J.

8:30–8:45; EGU2007-A-00112; NH5.01-1FR1O-001
Pfanz, H.
Vegetation as a pre-eruption indicator?

8:45–9:00; EGU2007-A-02304; NH5.01-1FR1O-002
Papale, P.; Saccorotti, G.; Longo, A.; Vassalli, M.; Barbato, D.; Barsanti, M.
Geophysical signatures of pre-eruptive deep magma dynamics

9:00–9:15; EGU2007-A-04257; NH5.01-1FR1O-003
Smith, R.; Kilburn, C.R.J.; Sammonds, P.R.
Fracturing regimes as indicators of the creation of new magmatic pathways

9:15–9:30; EGU2007-A-04487; NH5.01-1FR1O-004
Deligne, N. I.; Coles, S. G.; Sparks, R.S.J
Recurrence rates of large explosive volcanic eruptions

9:30–9:45; EGU2007-A-05467; NH5.01-1FR1O-005
Tentler, T.; Soriano, C.; Andujar, J.
Magmatic controls on the evolution and eruptive risk of Las Cañadas volcanic complex in Tenerife

9:45–10:00; EGU2007-A-08484; NH5.01-1FR1O-006
Wallenstein, N.; Riedel, C.; Silva, R
Reawakening of seismic swarm activity in the volcanic Congro region of Sao Miguel island (Azores, Portugal)

10:00 COFFEE BREAK

Chairperson: CARNIEL, R.

10:30–10:45; EGU2007-A-11121; NH5.01-1FR2O-001
Troise, C.; De Natale, G.; Obrizzo, F.; De Martino, P.; Tammaro, U.; Boschi, E.
A new uplift episode at Campi Flegrei caldera: implications for unrest models and eruption warning

10:45–11:00; EGU2007-A-02707; NH5.01-1FR2O-002
Greco, F.; Del Negro, C.; Napoli, R.; Nunnari, G.
Multivariate analysis of gravity and geomagnetic time sequences from Etna volcano (Italy)

11:00–11:15; EGU2007-A-04314; NH5.01-1FR2O-003
Selva, J.; Di Vito, M.; Marzocchi, W.; Orsi, G.; Quaglini, M.; Sandri, L.
Probability map of vent opening at Campi Flegrei, Italy

11:15–11:30; EGU2007-A-04347; NH5.01-1FR2O-004
Marzocchi, W.; **Sandri, L.**; Selva, J.; Woo, G.
Real time eruption forecasting during a volcanic crisis: BET_EF and the MESIMEX experiment

11:30–11:45; EGU2007-A-10127; NH5.01-1FR2O-005
Martí, J.; Ortiz, R.; Felpeto, A.; Ordoñez, A.; Geyer, A.; Planagomà, L.
Risk assessment at Olot, Catalan Volcanic Zone (Girona, NE Spain)

11:45–12:00; EGU2007-A-02238; NH5.01-1FR2O-006
Chirico, G. D.; Favalli, M.; Papale, P.; Pareschi, M. T.
Lava flow hazard map and mitigation from artificial barriers at Nyiragongo volcano through numerical simulations of lava flow paths

12:00 END OF SESSION

NH5.01 Volcanic Hazards: pre-eruptive warnings, quantification of hazards and mitigation of risk (co-listed in GMPV) – Posters

Convener: Gottsmann, J.
Co-Convener(s): Carniel, R., Marti, J., Aspinall, W.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: CARNIEL, R.

XY0436; EGU2007-A-01023; NH5.01-1FR3P-0436
Berrocso, M.; García-García, A.; Fernández-Prada, J. A.; **Ramírez, M. E.**; Sánchez-Alzola, A.; Fernández-Ros, A.
Crustal deformation models for Tenerife Island (Canary Island, Spain)

XY0437; EGU2007-A-01971; NH5.01-1FR3P-0437
Carmona, J.; Garcia, A.; Ortiz, R
New electric method for Timanfaya volcano monitoring (Lanzarote island, Canary Islands, Spain)

XY0438; EGU2007-A-02548; NH5.01-1FR3P-0438
Tárraga, M.; **Carniel, R.**; Ortiz, R.; García, A.; De La Cruz Reyna, S.
Influence of tectonic events on volcanic activity and implications for pre-eruptive warnings

XY0439; EGU2007-A-03597; NH5.01-1FR3P-0439
Todesco, M.; Marti, J.
Modeling of groundwater and hydrothermal fluid circulation at Las Cañadas caldera, Tenerife

XY0440; EGU2007-A-02806; NH5.01-1FR3P-0440
Platevoet, B.; Scaillet, S.; Guillou, H.; Nomade, S.; Blamart, D.; Poisson, A.; Elitok, Ö.; **Ozgur, N.**; Yýlmaz, K.; Yagmurlu, F.
Pleistocene explosive activity of the Gölcük volcano, Isparta Angle, Turkey

XY0441; EGU2007-A-04875; NH5.01-1FR3P-0441
Gottsmann, J.; Carniel, R.; Coppo, N.; Wooller, L.; Rymer, H.; Hautmann, S.
 The Dynamics of Prolonged Unrest at Caldera Volcanoes: Insights from Joint and Simultaneous Potential Field, Geodetic and Seismic Records at Nisyros, Greece

XY0442; EGU2007-A-05970; NH5.01-1FR3P-0442
Setijadji, L. D.; Watanabe, K.
 Assessing impacts of Yogyakarta earthquake 27 May 2006 on volcanic eruptions of Merapi volcano (central Java, Indonesia) and consequences on future volcanic risk mitigation

XY0443; EGU2007-A-03658; NH5.01-1FR3P-0443
Ricci, T.; Barberi, F.; Davis, M.S.; Isaia, R.; Nave, R.
 Volcanic Risk perception in the Vesuvius population

XY0444; EGU2007-A-08125; NH5.01-1FR3P-0444
Pesaresi, C.; Marta, M.; **Palagiano, C.**; Scandone, R.
 A model to evaluate the "social risk" due to geodynamic events: the situation of the Vesuvius area

XY0445; EGU2007-A-09615; NH5.01-1FR3P-0445
Marzano, F.S.; Barbieri, S.; Picciotti, E.; **Vulpiani, G.**; Karlsdottir, S.; Textor, C.; Rose, W.I.
 Quantitative radar remote sensing of volcanic clouds due to sub-glacial Plinian eruptions

XY0446; EGU2007-A-09898; NH5.01-1FR3P-0446
Crescentini, L.; Amoruso, A.; Carpentieri, M.; Berrino, G.
 Joint inversion of geodetic data in a layered medium: preliminary results for the Campi Flegrei caldera (Italy)

XY0447; EGU2007-A-06884; NH5.01-1FR3P-0447
Tammaro (1), U.; GLT Team
 Volcano ground deformation monitoring: CGPS, leveling and tide-gauge at Vesuvius and Campi Flegrei caldera

XY0448; EGU2007-A-03961; NH5.01-1FR3P-0448
Trasatti, E.; Giunchi, C.; Bonafede, M.; Berrino, G.
 A new interpretation of the 1982-84 unrest at Campi Flegrei Caldera (Italy) by numerical inversion

XY0449; EGU2007-A-09847; NH5.01-1FR3P-0449
Amoruso, A.; Crescentini, L.
 Effects of crustal layering on the inversion of gravity data in volcanic areas.

XY0450; EGU2007-A-09138; NH5.01-1FR3P-0450
Capra, L.; Davila, N.; Gavilanes, J.C.; **Norini, G.**; Varley, N.
 Recent lahars at Volcán de Colima volcano (Mexico) and related hazard

XY0451; EGU2007-A-09947; NH5.01-1FR3P-0451
Antunes, P.; Coutinho, R.; Freire, P.; Cruz, J.
 Sismo-volcanic crises at Fogo volcano, São Miguel (Azores, Portugal): volcanic lakes monitoring

NH6.01 Tsunamis (co-listed in OS)

Convener: Tinti, S.
 Co-Convener(s): Pelinovsky, E.
 Lecture Room 24
 Chairperson: PAPADOPOULOS, G.

8:30–8:45; EGU2007-A-00802; NH6.01-1FR1O-001
Daskalaki, E.; Fokaefs, A.; Giraleas, N.; Papadopoulos, G.A.
 Strong Earthquakes and Tsunamis in the West Hellenic Arc and Trench System

8:45–9:00; EGU2007-A-01716; NH6.01-1FR1O-002
Tinti, S.; **Armigliato, A.**; Bressan, L.; Gallazzi, S.; Pagnoni, G.; Tonini, R.; Zaniboni, F.
 Earthquake-generated tsunamis in the western Gulf of Corinth, Greece: single-fault and worst-case scenarios

9:00–9:15; EGU2007-A-06327; NH6.01-1FR1O-003
Tinti, S.; Zaniboni, F.; Armigliato, A.; Pagnoni, G.; Gallazzi, S.; Lykousis, V.; Sakellariou, D.; Nonikou, P.; Alexandri, S.
 Scenarios of tsunamis induced by sliding events in the Western Corinth Gulf (Greece)

9:15–9:30; EGU2007-A-01718; NH6.01-1FR1O-004
Tinti, S.; **Armigliato, A.**; Gallazzi, S.; Pagnoni, G.; Tonini, R.; Zaniboni, F.
 Tsunami hazard in southern Italy from far-field tectonic sources: numerical scenarios

9:30–9:45; EGU2007-A-02592; NH6.01-1FR1O-005
Tonini, R.; Tinti, S.; Armigliato, A.; Pagnoni, G.; Gallazzi, S.; **Maramai, A.**; Graziani, L.; Santoro, L.
 The 28 December 1908 Messina Strait (Sicily, Italy) Destructive tsunami: A reconstruction of the effects

9:45–10:00; EGU2007-A-06246; NH6.01-1FR1O-006
Zaniboni, F.; Tinti, S.; Pagnoni, G.; Gallazzi, S.; Della Seta, M.; Fredi, P.; Marotta, E.; Orsi, G.; de Vita, S.; Sansivero, F.
 Landslide-generated tsunamis in the Ischia island (Italy)

10:00 COFFEE BREAK

Chairperson: PELINOVSKY, E.

10:30–10:45; EGU2007-A-06280; NH6.01-1FR2O-001
Tinti, S.; **Zaniboni, F.**; Pagnoni, G.
 Extra-Sciara del Fuoco submarine landslides generating tsunamis in the Stromboli island (Italy)

10:45–11:00; EGU2007-A-11256; NH6.01-1FR2O-002
Pérez, B.; Otero, L.; González, M.; Vela, J.; Alvarez-Fanjul, E.; Medina, R.; Monserrat, S.
 The May 2003 Western Mediterranean Tsunami: analysis of sea level records and comparison with numerical simulations

11:00–11:15; EGU2007-A-06799; NH6.01-1FR2O-003
Baptista, M A.; Miranda, J M; Matias, L M; Zitellini, N
 Tsunami risk in SW Iberia from near shore sources; implications on early warning

11:15–11:30; EGU2007-A-05998; NH6.01-1FR2O-004
Løvholt, F.; Gisler, G.; Pedersen, G.; Cai, X.
 Modeling of potential slide generated tsunamis at La Palma Island

11:30–11:45; EGU2007-A-07243; NH6.01-1FR2O-005
Papadopoulos, G.A.; Daskalaki, E.; Fokaefs, A.; Orfanogiannaki, K.
 Development of a decision matrix for early tsunami warning in the Mediterranean and connected seas

11:45–12:00; EGU2007-A-04260; NH6.01-1FR2O-006
Zahibo, N.; Pelinovsky, E.; Nikolkina, I.
 Tsunami Hazard for Guadeloupe (French West Indies)

12:00 LUNCH BREAK

Chairperson: TINTI, S.

13:30–13:45; EGU2007-A-05443; NH6.01-1FR3O-001
Ozer, C.; **Yalciner, A. C.**; Pelinovsky, E.; Zaytsev, A.; Kurkin, A.; Synolakis, C
 hydrodynamic loads of tsunamis in the inundation zone

13:45–14:00; EGU2007-A-10687; NH6.01-1FR3O-002
Fritz, H.; Borrero, J; Synolakis, C
 2004 Indian Ocean tsunami flow velocity measurements from eyewitness videos

14:00–14:15; EGU2007-A-04752; NH6.01-1FR3O-003
Preuss, J.
 Post Tsunami Reconstruction in Sri Lanka: Case Example of multi-hazard risk based coastal planning

14:15–14:30; EGU2007-A-11073; NH6.01-1FR3O-004
McCloskey, J.; Antonioli, A.; Piatanesi, A.; Sieh, K.; Steacy, S.; Nalbant, S.; Huang, J.; Dunlop, P.; Cocco, M.; Guinchi, C.
 Propagation of tsunamis in the near-field from megathrust earthquakes

14:30–14:45; EGU2007-A-01770; NH6.01-1FR3O-005
Vatvani, D.; Nieuwenhuis, O.; Zijl, F.; van Hove, J
 Tsunami flood hazard assessment Of Aceh And Nias

14:45–15:00; EGU2007-A-09913; NH6.01-1FR3O-006
Pietrzak, J.; Socquet, A.; Ham, D.; Simons, W.; Vigny, C.; Labeur, R.; Schrama, E.; Stelling, G.; Vatvani, D.
 Slip and the Indian Ocean Tsunami from GPS, altimeters and tide gauges

15:00 COFFEE BREAK

Chairperson: YALCINER, A.

15:30–15:45; EGU2007-A-03116; NH6.01-1FR4O-001
Song, Y.; Lu, F.; Zlotnicki, V.; Ji, C.; Hjorleifsdottir, V.; Shum, C.; Yi, Y.
 Horizontal Motions of Faulting Dictate the 26 December 2004 Tsunami Genesis

15:45–16:00; EGU2007-A-10765; NH6.01-1FR4O-002
Fritz, H.; Kongko, W.; Moore, A.; McAdoo, B.; Goff, J.; Harbitz, C.; Uslu, B.; Kaligeris, N.; Titov, V.; Synolakis, C
 Extreme run-up from the 17 July 2006 Java tsunami

16:00–16:15; EGU2007-A-05034; NH6.01-1FR4O-003
Lobkovsky, L.; Kulikov, E.; Rabinovich, A.; Thomson, R.; Fine, I.; Ivelskaya, T.
 The Central Kuril (Simushir) Earthquakes and Tsunamis of 15 November 2006 and 13 January 2007: Predicted Events

16:15–16:30; EGU2007-A-05040; NH6.01-1FR4O-004
Baranov, B.; Lobkovsky, L.; Ivaschenko, A.; Kulinich, R.; Karp, B.
 The Central Kuril Earthquakes and Tsunamis of 15 November 2006 and 13 January 2007: Findings of a Pre-event geophysical field survey

16:30–16:45; EGU2007-A-03171; NH6.01-1FR4O-005
Dominey-Howes, D.
 Preliminary catalogue of Australian tsunami

16:45–17:00; EGU2007-A-03719; NH6.01-1FR4O-006
Fuhrman, D.R.; Madsen, P.A.
 Numerical modelling of tsunami generation and run-up, and the surf similarity of solitary waves

17:00 END OF SESSION

NH9.01 Vulnerability assessments and spatial/temporal variability of natural hazards risk

Convener: Keiler, M.
 Co-Convener(s): Fuchs, S., Glade, T., Kelman, I.
 Lecture Room 18
 Chairperson: GLADE, T.

13:30–13:45; EGU2007-A-03419; NH9.01-1FR3O-001
So, E.; Spence, R.; Khan, A.; Lindawati, T
 Building damage and casualties in recent earthquakes and tsunamis in Asia: a cross-event survey of survivors

13:45–14:00; EGU2007-A-06360; NH9.01-1FR3O-002
Holub, M.
 Decrease of vulnerability of buildings by local structural protection measures

14:00–14:15; EGU2007-A-05450; NH9.01-1FR3O-003
Dall’Osso, F.; Cavalletti, A.; Polo, P.; Gonella, M
 GIS based vulnerability assessment using multi-criteria analysis

14:15–14:30; EGU2007-A-09550; NH9.01-1FR3O-004
Glatron, S.; **Beck, E.**
 Assessing the socio-spatial vulnerability of citizens to natural hazards

14:30–14:45; EGU2007-A-04423; NH9.01-1FR3O-005
Catto, N.; Parewick, K
 Hazard and Vulnerability Assessment and Adaptive Planning: Mutual and Multi-lateral Community-Researcher Communication, Arctic and Atlantic Canada

14:45–15:00; EGU2007-A-07964; NH9.01-1FR3O-006
Delmonaco, G.; Falconi, L.; Margottini, C.; **Spizzichino, D.**
 A novel procedure for exposure and vulnerability of Cultural Heritage at landslide risk

15:00 COFFEE BREAK

Chairperson: KEILER, M.

15:30–15:45; EGU2007-A-08446; NH9.01-1FR4O-001
Oven, K.; Petley, D.; Rigg, J.; Dunn, C.; Rosser, N
 Landscape, livelihoods and risk: a study of community vulnerability to landslide events in a dynamic mountain environment

15:45–16:00; EGU2007-A-08753; NH9.01-1FR4O-002
Garittes, G.; Lahousse, P.; **Masson, E.;** Thénard, L
 Coupling GIS analysis and field survey for the vulnerability assessment of flood hazard

16:00–16:15; EGU2007-A-06580; NH9.01-1FR4O-003
Lamond, J.; Proverbs, D
 Measuring the long term impact of flooding on homeowners - data issues and opportunities

16:15–16:30; EGU2007-A-01628; NH9.01-1FR4O-004
Fuchs, S.; **Oberndorfer, S.**
 Damage due to torrent events 1972-2004 in Austria

16:30–16:45; EGU2007-A-01510; NH9.01-1FR4O-005
Strasser, U.
 Snow loads and changing climate – new risks?

16:45–17:00; EGU2007-A-08828; NH9.01-1FR4O-006
Kronholm, K.; Vikhamar-Schuler, D.; Jaedicke, C.; Isaksen, K.
 Prediction of geohazard triggering by meteorological variables using classification trees

17:00 END OF SESSION

NH9.05 Economic aspects and societal decision making in hazards and risk management

Convener: Fuchs, S.
 Co-Convener(s): Bründl, M., Bernknopf, R., Chung, C., Glade, T.
 Lecture Room 27
 Chairperson: BRÜNDL, M.

8:30–8:45; EGU2007-A-10588; NH9.05-1FR1O-001
Lawrie, K; Price, R
 Communicating science is not a one-way street: how science helps communicate science

8:45–9:00; EGU2007-A-01602; NH9.05-1FR1O-002
Liverman, D
 Communicating environmental geoscience- a challenge for the geoscientific community

9:00–9:15; EGU2007-A-01898; NH9.05-1FR1O-003
Schulte zu Berge, M.
 Going beyond science-based decision-making: a perspective from inside UK risk policy-making

9:15–9:30; EGU2007-A-01478; NH9.05-1FR1O-004
Gamper, C.D.
 The Political Economy of Public Participation in Natural Hazard Decisions - a case study of Austria

9:30–9:45; EGU2007-A-01373; NH9.05-1FR1O-005
Schultz, D. M.; Gruntfest, E. C.; Benight, C. C.; Drobot, S.; Barnes, L. R.; Hayden, M. H.
 Decision making by Austin, Texas, residents in hypothetical tornado scenarios

9:45–10:00; EGU2007-A-04542; NH9.05-1FR1O-006
Ward, R; Muir-Wood, R; Grossi, P
 Flood risk in New Orleans: implications for future management

10:00 COFFEE BREAK

Chairperson: FUCHS, S.

10:30–10:45; EGU2007-A-06887; NH9.05-1FR2O-001
Raschky, P. A.
 An institutional comparison of risk transfer mechanisms against floods between Europe and U.S.A.: A dynamic panel data approach

10:45–11:00; EGU2007-A-09549; NH9.05-1FR2O-002
Dorner, W.; Porter, M.; Metzka, R.
 Are floods in part a form of land use externality?

11:00–11:15; EGU2007-A-03366; NH9.05-1FR2O-003
Hallegatte, S.
 A Cost-Benefit Analysis of the New Orleans Flood Protection System

11:15–11:30; EGU2007-A-05651; NH9.05-1FR2O-004
Merz, B.; Thielen, A.
 Significance of 'high probability/low damage' versus 'low probability/high damage' flood events

11:30–11:45; EGU2007-A-09116; NH9.05-1FR2O-005
Herweijer, C; Miller, S; Muir-Wood, R; Boissonade, A
 An exploration of trends in normalised weather-related catastrophe losses

11:45–12:00; EGU2007-A-10816; NH9.05-1FR2O-006
Warner, K; Birkmann, J; Real Lopez, B
 Social vulnerability as a proxy indicator for economic impacts of natural disasters

12:00 END OF SESSION

NH10.02 Tree-ring reconstructions in natural hazards research

Convener: Stoffel, M.
 Co-Convener(s): Bollschweiler, M.
 Lecture Room 16 (L)
 Chairperson: STOFFEL, M.

13:30–14:00; EGU2007-A-01452; NH10.02-1FR3O-001
Scuderi, L.; McFadden, L.; McAuliffe, J.
 Dendrogeomorphic evidence of hillslope erosion in response to climate variation AD 1600 to present: Colorado Plateau, northeastern Arizona, USA. (solicited)

14:00–14:15; EGU2007-A-05548; NH10.02-1FR3O-002
Bodoque, J.M.; Díez Herrero, A.; Martín Duque, J.F.; Rubiales, J.M.
 Sheet erosion rates determined by using dendrogeomorphological analysis of exposed tree roots

14:15–14:30; EGU2007-A-05566; NH10.02-1FR3O-003
Rubiales, J.M.; Bodoque, J.M.; Díez-Herrero, A.; Martín-Duque, J.F.
 Determination of first exposure year by using dendrogeomorphological analysis of Scots pine roots

14:30–14:45; EGU2007-A-10072; NH10.02-1FR3O-004
Muntán, E.; Oller, P.; Gutiérrez, E.; García, C.; Martí, G.
 Reconstructing snow avalanches in the Southeastern Pyrenees

14:45–15:00; EGU2007-A-10254; NH10.02-1FR3O-005
Casteller, A.; Villalba, R.; Stoeckli, V.
 Tree-ring based reconstructions of snow avalanches in the Swiss Alps and the Argentinean Andes

15:00 COFFEE BREAK

Chairperson: STOFFEL, M.

15:30–15:45; EGU2007-A-04457; NH10.02-1FR4O-001
Moya, J.; Corominas, J.
 Are broad-leaved species useful for dating of events causing tree tilting? A critical analysis from the case of the October 1907 Brallans landslide (Central Pyrenees, Spain)

15:45–16:00; EGU2007-A-09220; NH10.02-1FR4O-002
Bollschweiler, M.; Stoffel, M.; Schneuwly, D.
 Assessing the spatial dynamics of debris-flow activity on a forested cone using dendroecological methods

16:00–16:15; EGU2007-A-05972; NH10.02-1FR4O-003
Aeby, P.; Leutwiler, A.
 Reconstruction of debris-flow activity on the Illgraben cone (Valais Alps, Switzerland)

16:15–16:30; EGU2007-A-11065; NH10.02-1FR4O-004
Malik, I.; Owczarek, P.
 Dendrochronological records of debris flow activity in a mid-mountain forest zone (Eastern Sudetes Mountains)

16:30–16:45; EGU2007-A-07463; NH10.02-1FR4O-005
Stoffel, M.; Conus, D.; Grichting, M.A.; Lièvre, I.; Maître, G.
 Unraveling the patterns of late Holocene debris-flow activity on a cone in the Swiss Alps: chronology, environment and implications for the future

16:45–17:00; EGU2007-A-04019; NH10.02-1FR4O-006
Lambert, G.-N.; Edouard, J.-L.; Guibal, F.
 French tree-ring signal from the low plains to the High Alps (Oak, Larch and Firs), meteorological interpretation tentativenesses

17:00 END OF SESSION

NH10.02 Tree-ring reconstructions in natural hazards research – Posters

Convener: Stoffel, M.

Co-Convener(s): Bollschweiler, M.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: STOFFEL, M.

XY0452; EGU2007-A-02593; NH10.02-1FR2P-0452

Bollschweiler, M.; Stoffel, M.; Schneuwly, D.; Bourqui, K.
Where do tangential rows of traumatic resin ducts occur in Larix decidua that have been impacted by debris flows?

XY0453; EGU2007-A-07036; NH10.02-1FR2P-0453

Diez-Herrero, A.; Moya, J.; Corominas, J.; Bodoque, J.M.; Muntan, E.; Gutierrez, E.; Oller, P.; Furdada, G.; Vilaplana, J.M.; Martin-Duque, J.F.; Dendrogeomorfologia Team
Dendrogeomorphological studies for natural hazards research in the Iberian Peninsula (Spain and Andorra)

XY0454; EGU2007-A-07235; NH10.02-1FR2P-0454

Hitz, O.M.

Using exposed tree roots as a dating tool for erosion in mountain torrents

XY0455; EGU2007-A-04089; NH10.02-1FR2P-0455

Kasatkina, E.A.; Shumilov, O.I.; Aspholm, P.E.; Lukina, N.V.
Once more mystery of the Tunguska event?

XY0456; EGU2007-A-07276; NH10.02-1FR2P-0456

Sorg, A.; Stoffel, M.; Bugmann, H

Dendrogeomorphological reconstruction of past debris-flow activity along the channel of the Geisstriftbach (Valais, Switzerland)

XY0457; EGU2007-A-01158; NH10.02-1FR2P-0457

Stoffel, M.; Bollschweiler, M.

RUFINE – Dendrogeomorphological reconstruction of past debris-flow activity in torrents and gullies of the Valais Alps

XY0458; EGU2007-A-02134; NH10.02-1FR2P-0458

Zangerle, P.; Oberhuber, W.

Dendroecological analysis of the impact of debris flows on a high montane forest ecosystem: a case study in the Northern Limestone Alps (Tyrol, Austria) (cancelled)

Nonlinear Processes in Geosciences

NP2.02/CR180 Nonlinear cryospheric dynamics (co-organized by NP and CR)

Convener: Schoof, C.

Co-Convener(s): Rempel, A.

Lecture Room 3

Chairperson: N.N.

15:30–15:45; EGU2007-A-02499; NP2.02/CR180-1FR40-001

Lüthi, M.P.

Glacier as a dynamical system

15:45–16:00; EGU2007-A-09908; NP2.02/CR180-1FR40-002

Eisenman, I.; Untersteiner, N.; **Wettlaufer, J.S.**

Can current global climate models be used to predict the future of arctic sea ice?

16:00–16:15; EGU2007-A-04897; NP2.02/CR180-1FR40-003

Ng, F.; Liu, S.; Mavlyudov, B.

Climatically-driven variation in the magnitude of jökulhlaups (solicited)

16:15–16:30; EGU2007-A-05567; NP2.02/CR180-1FR40-004

Sayag, R.; Tziperman, E.

The Role of Ice Longitudinal Shear Stresses and Subglacial Till Dynamics in Shear Flow Instability of an Ice Flow

16:30–16:45; EGU2007-A-02833; NP2.02/CR180-1FR40-005

Failetta, J.; Funk, M.; Pralong, A.

Log-periodic oscillations and icequakes during the breaking-off of large ice masses.

16:45–17:00; EGU2007-A-04844; NP2.02/CR180-1FR40-006

Fowler, A.C.; **Zammett, R.J.**

Spiral troughs on the Martian north polar ice cap (solicited)

17:00 END OF SESSION

NP6.06 Astrophysical Turbulence and Shocks, Plasmas and High Mach Number Flows (co-listed in PS)

Convener: Haas, J.

Co-Convener(s): Redondo, J., Bouquet, S.

Lecture Room 22

Chairperson: BOUQUET S.

15:30–15:45; EGU2007-A-11439; NP6.06-1FR40-001

Meshkov, E.; Bazarov, Y.B.; Levushov, A.E.; Polovnikov, A.A.

Self-organizing of Fibre-like Structures in Turbulent Gas and Dust Clouds (solicited)

15:45–16:00; EGU2007-A-11598; NP6.06-1FR40-002

Dolgova, G.V.; **Zhmaylo, V.;** Novikova, P.; Statsenko, V.P.
Development of Semi-Empirical Turbulent Mixing Model for Calculating MHD-Parameters of Supernova Remnants (solicited)

16:00–16:15; EGU2007-A-11596; NP6.06-1FR40-003

Kozlov, V.I.

Simulations of Shock Wave/Turbulence

16:15–16:30; EGU2007-A-11435; NP6.06-1FR40-004

Baryshnikov, A.S.; Basargin, I.V.; Chistyakova, M.V.

Influence of humidity and dustiness of air and nitrogen atmosphere on the effect of shock wave splitting in plasma of glow discharge on the effect of shock wave splitting in plasma of glow discharge.

16:30–16:45; EGU2007-A-11006; NP6.06-1FR40-005

Matulka, A.M.; Redondo, J.M.; Carrillo, A.

Topology of Turbulence affected by body forces

16:45–17:00; EGU2007-A-11591; NP6.06-1FR40-006

Haas, J.F.; Redondo, J.M.

Velocity measurements in turbulent shocks

17:00 COFFEE BREAK

Chairperson: REDONDO J.M.

17:30–18:00; EGU2007-A-05684; NP6.06-1FR50-001

Kiehn, R.M.

Topologically Coherent and Topologically Stationary (solicited)

18:00–18:15; EGU2007-A-11437; NP6.06-1FR50-002

Bouquet, S.; Gandeboeuf, P.; Pailhories, P.

Rayleigh-Taylor Instabilities and the Buoyancy-Drag Equation

18:15–18:30; EGU2007-A-05696; NP6.06-1FR5O-003
Kiehn, R.M.
 Topologically Coherent and Stationary Non Equilibrium Flows

18:30 END OF SESSION

NP6.07 Turbulence and dispersion in particle-laden geophysical flows: theory and models (co-listed in HS & SSP)

Convener: Cencini, M.
 Co-Convener(s): Lanotte, A.
 Lecture Room 22
 Chairperson: N.N.

13:30–13:45; EGU2007-A-02457; NP6.07-1FR3O-001
Grabowski, W. W.; Wang, L.-P.; Vaillancourt, P.
 Impact of cloud turbulence on growth of cloud droplets (solicited)

13:45–14:00; EGU2007-A-02381; NP6.07-1FR3O-002
Wilkinson, M.; Mehlig, B; Uski, V; Bezuglyy, V
 Caustics, Collisions and the Stokes Trap

14:00–14:15; EGU2007-A-00344; NP6.07-1FR3O-003
Bec, J.
 Clusters of heavy impurities in turbulent flows (solicited)

14:15–14:30; EGU2007-A-10785; NP6.07-1FR3O-004
Xu, H.; Bodenschatz, E.
 Experimental study of inertial particles in fully developed turbulence

14:30–14:45; EGU2007-A-01897; NP6.07-1FR3O-005
Calzavarini, E.; Biferale, L.; Cencini, M.; Lohse, D.; Toschi, F.
 Preferential concentrations of finite-size massive particles by turbulence

14:45–15:00; EGU2007-A-07184; NP6.07-1FR3O-006
Bourgoin, M.; Qureshi, N.; Cartellier, A.; Gagne, Y.; Baudet, C.
 Turbulent transport of material particles

15:00 END OF SESSION

NP6.08 Nonlinear geophysical fluid dynamics

Convener: Caulfield, C.
 Co-Convener(s): Flor, J., Balmforth, N.
 Lecture Room 22
 Chairperson: CAULFIELD, C.P.

8:30–9:00; EGU2007-A-05625; NP6.08-1FR1O-001
Peltier, W. R.; Stastna, M.M.
 Downslope Windstorms and Morning Glories: Analogues from the Coastal Ocean (solicited)

9:00–9:15; EGU2007-A-02393; NP6.08-1FR1O-002
Meiburg, E.
 Computational investigations of gravity and turbidity currents (solicited)

9:15–9:30; EGU2007-A-00697; NP6.08-1FR1O-003
Thomas, P. J.; Linden, P. F.; Gregorio, S.; Levin, J. C.; Haidvogel, D. B.
 Oceanographic Coastal Currents: Small-scale and large scale laboratory simulations and a geostrophic model (solicited)

9:30–9:45; EGU2007-A-08647; NP6.08-1FR1O-004
Sutherland, B. R.
 Weakly Nonlinear Internal Gravity Wavepackets

9:45–10:00; EGU2007-A-09747; NP6.08-1FR1O-005
 Babiano, A.; **Provenzale, A.**
 Coherent vortices and tracer cascades in two-dimensional turbulence

10:00 COFFEE BREAK

Chairperson: BALMFORTH, N.J.

10:30–10:45; EGU2007-A-10070; NP6.08-1FR2O-001
Zhang, J.; Zhong, J.-Q.; Liu, B
 Experimental attempts to simulate continental drift

10:45–11:00; EGU2007-A-10952; NP6.08-1FR2O-002
Woods, AW
 Reacting flows in Confined Aquifers and CO2 Sequestration (solicited)

11:00–11:15; EGU2007-A-07160; NP6.08-1FR2O-003
 McElwaine, J
 Segregation in Granular Flows (solicited)

11:15–11:30; EGU2007-A-05815; NP6.08-1FR2O-004
Wettlaufer, J.S.
 Snap, buckle, break and melt; some violent consequences of frozen flows (solicited)

11:30–11:45; EGU2007-A-10552; NP6.08-1FR2O-005
Schoof, C
 Stable and unstable equilibria in marine ice sheet flow: the role of ice shelves

11:45–12:00; EGU2007-A-09914; NP6.08-1FR2O-006
Patterson, M. D.; Berkowitz, R; Wettlaufer, J
 Ice growth and oceanic buoyancy forcing

12:00 END OF SESSION

Ocean Sciences

OS6 IMBER/SOLAS Special Session (co-listed in AS, BG, CL & NP)

Convener: Oguz, T.
 Co-Convener(s): Garcon, V.
 Lecture Room D
 Chairperson: N.N.

13:30–13:45; EGU2007-A-08171; OS6-1FR3O-001
 Freing, A.; **Bange, H.W.**
 Nitrous oxide and hydroxylamine in the tropical NE Atlantic Ocean

13:45–14:00; EGU2007-A-01636; OS6-1FR3O-002
Cavagna, A.J.; Fripiat, F.; Wolf-Gladrow, D.; Dehairs, F.; André, L.; Cardinal, D.
 Natural dissolved silicon isotopic signal during EIFEX (European Iron Fertilization Experiment): diatom uptake vs. mixing.

14:00–14:15; EGU2007-A-02014; OS6-1FR3O-003
Fennel, W.
 Towards end-to-end modeling of the marine foodweb

14:15–14:30; EGU2007-A-00696; OS6-1FR3O-004
Rees, A.; Bonnet, D
 The transfer of diazotrophically fixed nitrogen to higher trophic levels (cancelled)

14:30–15:00; EGU2007-A-03845; OS6-1FR3O-005
Vézina, A.F.; The CODiM team
 A first appraisal of ocean DMS models and prospects for their use in climate models (SOLAS-CODiM) (solicited)

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-00934; OS6-1FR4O-001

Journet, E.; Desboeufs, K.

Mineralogy as a critical factor of dust iron solubility and bioavailability

15:45–16:00; EGU2007-A-05117; OS6-1FR4O-002

Wells, M. L.; Trick, C. G.; Cochlan, W. P.

Fe(III) Complexing Organic Ligands and Their Regulation of Ecosystem Response to Atmospheric Iron Enrichment of High Nitrate Low Chlorophyll Waters

16:00–16:15; EGU2007-A-06730; OS6-1FR4O-003

Sarthou, G.; Vincent, D.; Christaki, U.; Obernosterer, I.; Timmermans, K.R.; Brussaard, C.P.D

The fate of biogenic iron during a phytoplankton bloom induced by natural fertilization: impact of copepod grazing

16:15–16:30; EGU2007-A-04612; OS6-1FR4O-004

Dutkiewicz, S.; Follows, M.J.; Grant, S.; Bragg, J.; Chisholm, S.W.

Emergent biogeography of phytoplankton communities in a model ocean

16:30–17:00; EGU2007-A-10909; OS6-1FR4O-005

Oschlies, A

Challenges in marine biogeochemical model development (solicited)

17:00 END OF SESSION

OS10 Ocean Remote Sensing (colisted GD, CL)

Convener: Schrama, E.

Co-Convener(s): MILLER, J., Han, G., Barale, V.

Lecture Room 6 (K)

Chairperson: N.N.

13:30–13:45; EGU2007-A-03060; OS10-1FR3O-001

Lavrova, O.Yu.; Mityagina, M.I.

Multisensor observation of eddies and mesoscale features in coastal zones

13:45–14:00; EGU2007-A-08574; OS10-1FR3O-002

Athie, G.; Marin, F.; Bourles, B.

Cross-equatorial structure of the intra-seasonal variability at the surface of the Tropical Atlantic Ocean

14:00–14:15; EGU2007-A-00569; OS10-1FR3O-003

Desportes, C.; Obligis, E.; Eymard, L.

The wet tropospheric correction for altimetry in coastal and inland water regions

14:15–14:30; EGU2007-A-06258; OS10-1FR3O-004

Karstensen, J.; Testor, P.; Lherminier, P.; Terre, T.; Send, U.; Sherman, J.; Davis, R.; Krahmann, G.

A comparison study on glider and satellite data from the eastern North Atlantic

14:30–14:45; EGU2007-A-05693; OS10-1FR3O-005

Milliff, R.; Bonazzi, A.; Wikle, C.; Berliner, L.; Pinardi, N.

A Bayesian hierarchical model for surface winds in the Mediterranean Sea: Generation of ensemble initial conditions for ocean forecasting

14:45–15:00; EGU2007-A-03125; OS10-1FR3O-006

Liu, W.; Xie, X.

Difference between wind and stress over ocean fronts revealed by scatterometer

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-03566; OS10-1FR4O-001

Charria, G.; Cipollini, P.; Dadou, I.; Garçon, V.

Planetary waves and biogeochemistry in the North Atlantic Ocean

15:45–16:00; EGU2007-A-00829; OS10-1FR4O-002

Sergievskaya, I.A.; Ermakov, S.A.

On detection and identification of marine films using optical images

16:00–16:15; EGU2007-A-02227; OS10-1FR4O-003

Barale, V.

Optical Tracers of Environmental Features in the European Marginal and Enclosed Seas

16:15–16:30; EGU2007-A-03008; OS10-1FR4O-004

Pottier, C.; Turiel, A.; **Garçon, V.**

Merging of ocean colour data using wavelets

16:30–16:45; EGU2007-A-03352; OS10-1FR4O-005

Müllenhoff, O.; **Ferraro, G.;** Bulgarelli, B.; Tarchi, D.; Topouzelis, K.

Results of the Project AESOP (Aerial and Satellite surveillance of Operational Pollution in the Adriatic Sea)

16:45–17:00; EGU2007-A-07888; OS10-1FR4O-006

Volpe, G.; Santoleri, R.; Vellucci, V.; Ribera d'Alcalà, M.; Marullo, S.; D'Ortenzio, F.

The colour of the Mediterranean Sea: global versus regional bio-optical algorithms evaluation and implication for satellite chlorophyll estimates

17:00 END OF SESSION

OS13 Sensitivity of marine ecosystems and biogeochemical cycles to climate change (co-listed BG, NP, CL)

Convener: Robinson, C.

Co-Convener(s): Salihoglu, B.

Lecture Room D

Chairperson: N.N.

8:30–8:45; EGU2007-A-02788; OS13-1FR1O-001

Gruber, N.; Lovenduski, N.; Brix, H.; Doney, S. C.; Lima, I.; Thompson, D. W.

Recent Biogeochemical Trends in the Southern Ocean: Signs of a positive feedback in the climate system? (solicited)

8:45–9:00; EGU2007-A-01603; OS13-1FR1O-002

Jacquet, S.H.M.; Dehairs, F.; Elskens, M.; Savoye, N.; de Brauwere, A.; Delille, B.; Cardinal, D.

Mesopelagic C mineralization at the Southern Ocean's scale

9:00–9:15; EGU2007-A-03271; OS13-1FR1O-003

Schneider, B.; Bopp, L.; Gehlen, M.; Cadule, P.; Segsneider, J.; Froelicher, T.; Joos, F.

Spatial and temporal variability of Primary Production and POC export from different coupled model simulations

9:15–9:30; EGU2007-A-07644; OS13-1FR1O-004

Landolfi, A.; Sanders, R.; Purdie, D. A.

N₂ fixation in the North Atlantic: a new geochemical estimate

9:30–9:45; EGU2007-A-10948; OS13-1FR1O-005

Oschlies, A.; Schmittner, A.; Riebesell, U.; Schulz, K. G.; Barcelos e Ramos, J.; Biswas, H.

Global impact of pCO₂-sensitive increases in carbon export and nitrogen fixation

9:45–10:00; EGU2007-A-10152; OS13-1FR1O-006
Stephens, N; Le Quéré, C; Buitenhuis, E
 Functional representation of N2 fixation in a Dynamic Green Ocean Model

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-01419; OS13-1FR2O-001
Lopez-Urrutia, A
 A metabolic theory of the oceans: simple rules for complex systems (solicited)

10:45–11:00; EGU2007-A-07822; OS13-1FR2O-002
Piontek, J; Händel, N; Engel, A
 Effects of rising temperature and pCO₂ on bacterial degradation processes in marine systems

11:00–11:15; EGU2007-A-08871; OS13-1FR2O-003
Robador, A.; Brüchert, V.
 Long-term responses of anaerobic carbon mineralization during bacterial sulfate reduction to induced temperature shifts in Arctic and temperate marine sediments

11:15–11:30; EGU2007-A-01617; OS13-1FR2O-004
Plattner, G.-K.; Joos, F.
 Ocean acidification in long-term future climate simulations

11:30–11:45; EGU2007-A-07994; OS13-1FR2O-005
Koch, S.; Händel, N.; Wirtz, K.; Engel, A.
 Testing the effects of pCO₂ on the coccolithophore *Emiliana huxleyi* during different growth stages

11:45–12:00; EGU2007-A-03403; OS13-1FR2O-006
Engel, A.; Bellerby, R.; Delille, B.; Schulz, K.; Riebesell, U.; Schartau, M
 Effect of CO₂ concentration on suspended particle dynamics during a mesocosm bloom experiment (Peece II)

12:00 END OF SESSION

Planetary and Solar System Sciences

PS2.4 Lunar science and exploration

Convener: Foing, B.
 Lecture Room 4 (H)
 Chairperson: N.N.

13:30–13:45; EGU2007-A-04917; PS2.4-1FR3O-001
Zuber, M; Smith, D
 Lunar altimetry, gravity and geodesy; status and future opportunities

14:00–14:15; EGU2007-A-03371; PS2.4-1FR3O-003
Knapmeyer, M.; Oberst, J.
 Distribution of Lunar deep Quakes revisited

14:15–14:30; EGU2007-A-10199; PS2.4-1FR3O-0007
 Foing, B.H.; SMART-1 Science and Technology Working Team, & SMART-1 STOC, & SMART-1 Science and Technology Working Team
 Highlights of SMART-1 Lunar Science results

14:30–14:45; EGU2007-A-09471; PS2.4-1FR3O-004
 Chevrel, S. D.; Pinet, P. C.; Daydou, Y.; Rosemberg, C.; Besse, S.; Josset, J.L.; Beauvivre, S.; Cerroni, P.; Shkuratov, Y.; Shevchenko, V. V.
 Photometric properties of the lunar surface from AMIE/SMART-1 multiangular imaging.

14:45–15:00; EGU2007-A-10425; PS2.4-1FR3O-005
Mall, U.; Nathues, A.; Vilenius, E.; Ullaland, K.; McKenna-Lawlor, S.
 SIR2 on Chandrayaan-1

15:00–15:15; EGU2007-A-10608; PS2.4-1FR3O-006
 Foing, B.H.; **Ehrenfreund, P.;** Veillet, C.; SMART-1 impact campaign team, & SMART-1 impact campaign team
 SMART-1 Moon impact on 3 Sept 2006: predictions and observation campaign

15:15 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-08764; PS2.4-1FR4O-001
Ferri, F.; Giacomuzzo, C.; Pavarin, D.; Francesconi, A.; Bettella, A.; Tasinato, L.; Flamini, E.; Angrilli, F.
 Impact experiments for the interpretation of SMART-1 impact on the Moon

15:45–16:00; EGU2007-A-04270; PS2.4-1FR4O-002
Saito, Y.; Yokota, S.; Asamura, K.; Tanaka, T.; Mukai, T.; SELENE MAP-PACE TEAM
 Low energy charged particle measurement by Japanese lunar orbiter SELENE

16:00–16:15; EGU2007-A-10647; PS2.4-1FR4O-003
Erd, C.; Witasse, O.; Grande, M.; Maddison, B.; Barabash, S.; Andersson, H.; Mall, U.; Nathues, A.
 Chandrayaan-1: India's Mission to the Moon, goals, status, and European

16:15–16:30; EGU2007-A-04452; PS2.4-1FR4O-004
Barabash, S.; Bhardwaj, A.; Wieser, M.; Sridharan, R.; Futaana, Y.; McCann, D.; Lundin, R.; Holmström, M.; Kazushi, A.; Wurz, P.
 SARA on Chandrayaan-1

16:30–16:45; EGU2007-A-10015; PS2.4-1FR4O-007
Chin, G.
 Lunar Reconnaissance Orbiter Mission Overview

16:45–17:00; EGU2007-A-11051; PS2.4-1FR4O-005
Morrow, C. A.
 Education and Public Outreach for International Lunar Missions

17:00–17:15; EGU2007-A-11477; PS2.4-1FR4O-006
Foing, B.H.; ILEWG, & ILEWG members
 Coordination between upcoming lunar missions

17:15 COFFEE BREAK

Chairperson: N.N.

17:30–17:45; EGU2007-A-10334; PS2.4-1FR5O-001
Walker, R.
 The European Student Moon Orbiter

17:45–18:00; EGU2007-A-08751; PS2.4-1FR5O-002
Plescia, J.; Lavoie, A.; Spudis, P.; Bussey, B.
 Status of NASA Lunar Precursor Robotic Program

18:00–18:15; EGU2007-A-07927; PS2.4-1FR5O-003
Smith, A; Gao, Y
 Concepts and instruments for low-cost lunar surface missions

18:15–18:30; EGU2007-A-07006; PS2.4-1FR5O-004
Espinasse, S.
 Italian vision for Moon exploration

18:30–18:45; EGU2007-A-08456; PS2.4-1FR5O-005
Hovland, S.
 ESA Preparation for Human Lunar Exploration

18:45–19:00; EGU2007-A-11164; PS2.4-1FR5O-006
Perino, M.A.
 Lunar Exploration Architecture Studies

19:00–19:15; EGU2007-A-10709; PS2.4-1FR5O-007
 Zarnecki, J.; Hufenbach, B.; **Carey, W.**
 The Role of the Moon in ESA Reference Scenario for Space Exploration

19:15–19:30; EGU2007-A-11479; PS2.4-1FR5O-008
Foing, B.H.; ILEWG pannel members, & ILEWG members
 Roadmap from Precursor Missions to Lunar Bases

19:30 END OF SESSION

PS3.0 Outer planets and satellites (including David Bates Medal Lecture) – Posters

Convener: Coustenis, A.
 Co-Convener(s): Atreya, S.
 Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 08:30–10:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0459; EGU2007-A-00610; PS3.0-1FR1P-0459
Zuchowski, L. C.; Yamazaki, Y. H.; Read, P. L.
 GCM studies of Jovian turbulence and jet stability

XY0460; EGU2007-A-01009; PS3.0-1FR1P-0460
Zuchowski, L. C.; Yamazaki, Y. H.; Read, P. L.
 A simple Jovian cloud scheme for OPUS

XY0461; EGU2007-A-03178; PS3.0-1FR1P-0461
Tejfel, V.; Kharitonova, G
 The seasonal trend of the methane absorption in Southern hemisphere of Saturn

XY0462; EGU2007-A-03931; PS3.0-1FR1P-0462
Hesman, B. E.; Jennings, D. E.; Sada, P. V.; Bjoraker, G. L.; Simon-Miller, A. A.; Boyle, R. J.; McCabe, G. H.
 Saturn's hydrocarbon emission from ground-based and Cassini/CIRS observations

XY0463; EGU2007-A-06625; PS3.0-1FR1P-0463
Andert, T. P.; Pätzold, M.; Tyler, L. G.
 Derivation of the masses of Pluto and Charon from the New Horizons's flyby in 2015

XY0464; EGU2007-A-07229; PS3.0-1FR1P-0464
Irwin, P.; Teanby, N.; Davis, G.
 Near infrared observations of the latitudinal variation of vertical

XY0465; EGU2007-A-07699; PS3.0-1FR1P-0465
 Garcia-Melendo, E.; Sanchez-Lavega, A.; Hueso, R.; Legarreta, J.; Perez-Hoyos, S
 Observations and Simulations of the Jovian Anticyclone BA and its interaction with the Great Red Spot

XY0466; EGU2007-A-07670; PS3.0-1FR1P-0466
Barrado, N.; Sanchez-Lavega, A.; Hueso, R.; Pérez-Hoyos, S.
 Jupiter's Polar Clouds and Dynamics from HST and Cassini imaging: 1994-2000

XY0467; EGU2007-A-09337; PS3.0-1FR1P-0467
D'Aversa, E.; Bellucci, G.; Baines, K.; Brown, R.H.; Team, VIMS
 Saturn atmosphere from Cassini/VIMS: distribution of the tropo-stratospheric aerosols

XY0468; EGU2007-A-03287; PS3.0-1FR1P-0468
Khodachenko, M. L.; Kislyakov, A. G.; Panchenko, M.; Taubenschuss, U.; Rucker, H. O.
 On the solar wind and Saturn moons signatures in modulations of SKR and near Saturn magnetic field

XY0469; EGU2007-A-09960; PS3.0-1FR1P-0469
Rodin, A.V.; Skorov, Yu.V.; Keller, H.U.; Grieger, B.; Tomasko, M.
 Coagulation and scavenging on tholin haze in the Titan atmosphere

XY0470; EGU2007-A-09632; PS3.0-1FR1P-0470
Atkinson, D.H.; Bird, M.K.; The Doppler Wind Experiment Team
 The Huygens Titan probe Doppler Wind Experiment: recent progress

XY0471; EGU2007-A-09326; PS3.0-1FR1P-0471
Schwingschuh, K.; Besser, B.P.; Hofe, R.; HASI-PWA Team
 HUYGENS in-situ observations of Titan's atmospheric electricity

XY0472; EGU2007-A-09161; PS3.0-1FR1P-0472
Smythe, W.; Nelson, R.; Boryta, M
 The search for ammonia frost on Titan

XY0473; EGU2007-A-08752; PS3.0-1FR1P-0473
Alberti, G.; Papa, C.; Flamini, E.; Orosei, R.; Picardi, G.; Seu, R.; Del Marmo, P.P.; Callahan, P.S.; Walls, S.
 Processing of altimetric data of CASSINI mission

Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00

Poster Area Halls X/Y
 Chairperson: N.N.

XY0474; EGU2007-A-08608; PS3.0-1FR2P-0474
Rannou, P.; Montmessin, F.; Hourdin, F.; Lebonnois, S.; Tobie, G
 Stability of the methane and the ethane in Titan atmosphere

XY0475; EGU2007-A-08601; PS3.0-1FR2P-0475
 Negrao, A.; Coustenis, A.; Hirtzig, M.; Lellouch, E.; Maillard, J.-P.; Rannou, P.; Gendron, E.; Drossart, P.; Combes, M.; Schmitt, B.
 Ground-based observations of Titan in the near-infrared

XY0476; EGU2007-A-08515; PS3.0-1FR2P-0476
 Rodriguez, S.; Crapeau, M.; Le Mouélic, S.; Paillou, P.; **Sotin, C.;** Wall, S.; Brown, R.H.; the VIMS and RADAR Science teams
 Cassini VIMS and Altimeter joint study of Titan surface

XY0477; EGU2007-A-08417; PS3.0-1FR2P-0477
 Rodriguez, S.; Le Mouélic, S.; Tobie, G.; Sotin, C.; Rannou, P.; Griffith, C.A.; **Hirtzig, M.;** Barnes, J.W.; Brown, R.H.; the VIMS Science team
 Mapping Titan's clouds with the VIMS instrument during the two first years of the Cassini mission

XY0478; EGU2007-A-06865; PS3.0-1FR2P-0478
Le Mouélic, S.; Sotin, C.; Rodriguez, S.; Tobie, G.; Le Corre, L.; Brown, R.H.; Barnes, J.W.; Clark, R.; Jau-mann, R.; Soderblom, L.
 Processing of Cassini VIMS surface images of Titan : spatial and spectral filtering

XY0479; EGU2007-A-06787; PS3.0-1FR2P-0479
Garnier, P.; Dandouras, I.; Toubanc, D.; Mitchell, D.G.; Roelof, E.C.; Brandt, P.C.; Krimigis, S.M.; Krupp, N.; Hamilton, D.C.; Waite, J.H.
 The Titan exosphere and its interaction with the kronian magnetosphere : INCA/LEMMS observations statistical analysis and modeling

XY0480; EGU2007-A-06489; PS3.0-1FR2P-0480
Ventura, B.; Casarano, D.; Notarnicola, C.; Di Rosa, D.; Posa, F.
 Cassini RADAR: modeling and Bayesian inference of physical and morphological parameters of Titan's surface features

XY0481; EGU2007-A-06339; PS3.0-1FR2P-0481
Szopa, C.; Cernogora, G.; Hadamcik, E.; Alcouffe, G.; Renard, J.B.; Quirico, E.

Physical and chemical properties of analogues of Titan's aerosols produced with a radio-frequency plasma experiment

XY0482; EGU2007-A-05877; PS3.0-1FR2P-0482
Anderson, C.M.; Young, E.F.; Chanover, N.J.; McKay, C.P.
 Titan's tropospheric methane and lower atmospheric haze distribution from HST/STIS observations

XY0483; EGU2007-A-05009; PS3.0-1FR2P-0483
Lin, I L.; Ip, W.H.

An Exospheric Model of Iapetus

XY0484; EGU2007-A-04977; PS3.0-1FR2P-0484
Tobie, G.; Duval, P.; Sotin, C.
 Grain size evolution in convective ice shells: Application to Europa and the other icy satellites.

XY0486; EGU2007-A-04716; PS3.0-1FR2P-0486
Marouf, E.; **French, R.;** Flasar, M.; Schinder, P.; Kliore, A.; Rappaport, N.; McGhee, C.; Anabtawi, A.
 Titan's Atmosphere: Cassini Radio Science Extinction Observations

XY0487; EGU2007-A-04574; PS3.0-1FR2P-0487
Lorenz, R. D.; The Cassini RADAR Team
 Lakes on Titan : RADAR Observations and models of Physical Processes

XY0488; EGU2007-A-04518; PS3.0-1FR2P-0488
Wei, H. Y.; Russell, C. T.; Dougherty, M. K.; Neubauer, F. M.; Bertucci, C.; Ma, Y. J.
 An upper limit to the intrinsic magnetic moment of Titan

XY0489; EGU2007-A-03948; PS3.0-1FR2P-0489
Read, P. L.; Fletcher, L. N.; Irwin, P. G.; Achterberg, R.; Conrath, B. J.
 Zonal mean dynamics on Saturn from Cassini and Voyager data

XY0490; EGU2007-A-03028; PS3.0-1FR2P-0490
Ma, Y.; **Nagy, A.;** Toth, G.; Najib, D.; Cravens, T.; Crary, F.; Coates, A.; Bertucci, C.; Neubauer, F.; Russell, C.
 3D Global Hall MHD Simulations of Titan's interaction with its surrounding plasma

XY0491; EGU2007-A-03091; PS3.0-1FR2P-0491
Kanik, I.; Orzechowska, G. E.; Hodyss, R. P.; Johnson, P. V.; Goguen, J. D.; Lane, A. L.; Kirschvink, J. L.; Yung, Y. L.
 Laboratory Investigation of Potential Chemical Pathways for the Formation and Degradation of Organics Relevant to Outer Planets and Satellites

XY0492; EGU2007-A-01793; PS3.0-1FR2P-0492
Tseng, W.-L.; Ip, W.-H.
 Charge Exchange and Ion Chemistry in the Gas Coma of Enceladus

XY0493; EGU2007-A-01533; PS3.0-1FR2P-0493
Kochemasov, G.
 The wave modulation approach to explain sizes of some features on Saturn and Titan

XY0494; EGU2007-A-10382; PS3.0-1FR2P-0494
Hirtzig, M.; leMouélic, S.; Rodriguez, S.; Negrão, A.; Tobie, G.; Sotin, C.; Coustenis, A.; Rannou, P.; Brown, R.H.
 VIMS cartography of Titan: cleaning out the atmosphere and constraining the surface spectrum

PS3.1 Satellites and rings – Posters

Convener: Ferrari, C.
 Co-Convener(s): Spilker, L.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 08:30–10:00
 Poster Area Halls X/Y
 Chairperson: LEYRAT, C.

XY0495; EGU2007-A-01594; PS3.1-1FR1P-0495
Kochemasov, G.
 Wave shaping of small saturnian satellites and wavy granulation of saturnian rings

XY0496; EGU2007-A-05910; PS3.1-1FR1P-0496
Riofrio, L.
 Sources of Mass/Energy in Planetary Rings

XY0497; EGU2007-A-03730; PS3.1-1FR1P-0497
Griv, E.; Gedalin, M.; Yuan, C.
 Turbulent viscosity and lifetime of Saturn's rings

XY0498; EGU2007-A-03708; PS3.1-1FR1P-0498
Griv, E.
 How were Uranus' rings formed?

XY0499; EGU2007-A-06110; PS3.1-1FR1P-0499
Khurana, K. K.; Leisner, J. S.; Dougherty, M. K.; Russell, C. T.
 Close and distant signatures of the icy moons of Saturn (solicited)

XY0500; EGU2007-A-03666; PS3.1-1FR1P-0500
Roatsch, Th.; Matz, K.-D.
 Icy satellites surface observations planning tool CKVIEW

XY0501; EGU2007-A-03683; PS3.1-1FR1P-0501
Roatsch, Th.; Waehlich, M.; Hoffmeister, A.; Kuhn, A.; Neukum, G.; Helfenstein, P.; Porco, C.
 High Resolution Enceladus Atlas derived from Cassini-ISS images (solicited)

XY0502; EGU2007-A-02136; PS3.1-1FR1P-0502
Ziethe, R.; Sohl, F.
 A Numerical Model for the Differentiation of Enceladus

XY0503; EGU2007-A-06928; PS3.1-1FR1P-0503
Harada, Y.; Kurita, K.
 Effect of non-synchronous rotation on surface stress upon Europa: constraints on surface rheology

XY0504; EGU2007-A-03937; PS3.1-1FR1P-0504
Toubeau, J.; Deleersnijder, E.; de Viron, O.; Karatekin, O.; Remacle, J.-F.; Van Hoolst, T.; Dehant, V.
 Non-equilibrium tides of Europa

Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00

PS Poster Area
 Chairperson: N.N.

PS6 Planetary, Solar and Heliospheric Radio Emissions – Posters

Convener: Galopeau, P.
 Co-Convener(s): Breen, A., Boudjada, M.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 08:30–10:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0505; EGU2007-A-06735; PS6-1FR1P-0505
Boudjada, M.Y.; Klein, L.; Lecacheux, A.; Bonnin, X.; Maksimovic, M.; Hoang, S.; Dekkali, M.
Study of Solar radio Type III bursts observed simultaneously by Nançay ground-based stations, and Cassini and Wind spacecraft

XY0506; EGU2007-A-08995; PS6-1FR1P-0506
Khotyaintsev, Yu. V.; Krasnoselskikh, V.; Khotyaintsev, M. V.; Mühlbacher, S.
In Situ Observation of a Type II Solar Radio Burst Source Region

XY0507; EGU2007-A-04996; PS6-1FR1P-0507
Melnik, V. N.; Rucker, H. O.; Konovalenko, A. A.; Abranin, E. P.; Dorovsky, V. V.; Stanislavskyy, A. A.; Lecacheux, A.
Type IV Bursts at Frequencies 10-30 MHz

XY0508; EGU2007-A-09167; PS6-1FR1P-0508
Romantsova, T.; Mogilevsky, M.; Hanasz, J.; Skalsky, A.
The multi-spacecraft observation of Auroral Kilometric Radiation

XY0509; EGU2007-A-11496; PS6-1FR1P-0509
Mutel, R.; **Christopher, I.;** Jaeger, T.; Pickett, J.
Multi-spacecraft determination of AKR angular beaming pattern along tangent planes

XY0510; EGU2007-A-09371; PS6-1FR1P-0510
Hess, S.; Cecconi, B.; Zarka, P.
Simulation of Io-Jupiter radio arcs

XY0511; EGU2007-A-02281; PS6-1FR1P-0511
Litvinenko, G.V.; Rucker, H.O.; Lecacheux, A.; Konovalenko, A.A.; Vinogradov, V.V.; Shaposhnikov, V.E.; Taubenschuss, U.
Modulation features on the dynamic spectra of the Jovian sporadic DAM emission

XY0512; EGU2007-A-02091; PS6-1FR1P-0512
Menietti, J.; Santolik, O.; Rymer, A.; Gurnett, D.; Coates, A.; Young, D.
Analysis of plasma waves observed within local plasma injections within Saturn's magnetosphere

XY0513; EGU2007-A-04792; PS6-1FR1P-0513
Konovalenko, A. A.; Lecacheux, A.; Rucker, H. O.; Fischer, G.; Abranin, E. P.; Kalinichenko, N. N.; Falkovich, I. S.; Sidorchuk, K. M.
Ground-based Decameter Wavelength Observations of Saturn Electrostatic Discharges

XY0514; EGU2007-A-06941; PS6-1FR1P-0514
Boudjada, M.Y.; Galopeau, P.H.M.; Kurth, W.S.; Rucker, H.O.
Saturn Kilometric Radiation: Study of spectral structures observed by the wide band receiver onboard Cassini spacecraft

XY0515; EGU2007-A-09952; PS6-1FR1P-0515
Galopeau, P.H.M.; Boudjada, M. Y.; Lecacheux, A.
Spectral envelope of Saturnian Kilometric Radiation observed by Cassini/RPWS

XY0516; EGU2007-A-10958; PS6-1FR1P-0516
Gary, D.; Nita, G.; Liu, Z.; Hurford, G.; White, S.
A Testbed for the Frequency Agile Solar Radiotelescope

XY0517; EGU2007-A-09762; PS6-1FR1P-0517
Tokarev, Yu.; Komrakov, G.; Bougeret, J.-L.; **Kaiser, M.;** Goetz, K.
SURA-STEREO experiments: first results and planning investigations

XY0518; EGU2007-A-09906; PS6-1FR1P-0518
Tokarev, Yu.; **Kaiser, M.;**
Determination of Stokes parameters using by rotating spacecraft for case of strong intensity fluctuations of observed emission

PS7.2 Atmospheric and water loss from early Mars and its implication for the origin of life

Convener: Lammer, H.
Co-Convener(s): Vago, J.
Lecture Room 19
Chairperson: N.N.

17:30–17:45; EGU2007-A-07221; PS7.2-1FR5O-001
Westall, F.

Environmental conditions on early Mars and the possibility of Martian life (solicited)

17:45–18:00; EGU2007-A-10556; PS7.2-1FR5O-002
Graps, A. L.; Lunine, J. I.; Chambers, J.; Morbidelli, A.; Leshin, L. A.; O'Brien, D. P.
The origin of water on Mars (solicited)

18:00–18:15; EGU2007-A-05839; PS7.2-1FR5O-003
Manning, C.; McKay, C.; Zahnle, K.
Numerical modeling of the evolution of Mars' climate; a tool for the accounting of volatile inventories. (solicited)

18:15–18:30; EGU2007-A-06496; PS7.2-1FR5O-004
Ribas, I.
The strong high-energy and particle emissions of the young Sun: impact on the Martian atmosphere and water inventory (solicited)

18:30–18:45; EGU2007-A-00328; PS7.2-1FR5O-005
Kulikov, Yu.N.
Solar EUV radiation effects on the early Martian upper atmosphere (solicited)

18:45–19:00; EGU2007-A-06513; PS7.2-1FR5O-006
Terada, N.; Kulikov, Y.; Lammer, H.; Khodachenko, M.; Lichtenegger, H.
Ion escape from the early Martian atmosphere

19:00–19:15; EGU2007-A-11329; PS7.2-1FR5O-007
Sotin, C.; Bibring, J.-P.
The coupling between the dynamo shutdown and the water abundance on Mars: the mantle filter

19:15–19:30; EGU2007-A-11239; PS7.2-1FR5O-008
Leblanc, F.; Chassefière, E.; Langlais, B.; Sotin, C.; Barabash, S.; Coates, A.; Dehant, V.; Lammer, H.; Mandea, M.; Vennerstrom, S.; the MEMO team
The Mars Escape and Magnetic Orbiter: a Cosmic Vision mission proposal

19:30 END OF SESSION

Seismology

SM11 Earthquake Dynamics: New insights in the rupture process and seismic radiation through theory, modeling and observations

Convener: Mai, P.
Co-Convener(s): Cocco, M., Madariaga, R., Ampuero, J.
Lecture Room 26
Chairperson: N.N.

13:30–13:45; EGU2007-A-03169; SM11-1FR3O-001
Fukuyama, E.; Hashimoto, C.; Aoi, S.; Matsu'ura, M.
Integrated simulation of plate subduction, earthquake dynamic rupture and seismic wave propagation

13:45–14:00; EGU2007-A-07737; SM11-1FR3O-002
Piatanesi, A.; Cirella, A.; Tinti, E.; Cocco, M.
 Using geophysical data inversion to constrain earthquake dynamics: supporting and conflicting evidence

14:00–14:15; EGU2007-A-06885; SM11-1FR3O-003
Lomax, A.; Michelini, A.; Piatanesi, A.
 Rapid, energy-duration estimates of seismic moment and implications for rupture scaling and dynamics

14:15–14:30; EGU2007-A-02425; SM11-1FR3O-004
Song, S.; Pitarka, A.; Beroza, G.
 Pseudo-dynamic modeling of large strike-slip earthquakes

14:30–14:45; EGU2007-A-03072; SM11-1FR3O-005
Abe, S.; Bean, C.
 DEM Simulation of dynamic Rupture Patterns on a rough Fault

14:45–15:00; EGU2007-A-07829; SM11-1FR3O-006
Ripperger, J.; Mai, P. M.; Ampuero, J.-P.
 Near-field strong ground motion from dynamic earthquake ruptures in heterogeneous stress fields

15:00 END OF SESSION

SM11 Earthquake Dynamics: New insights in the rupture process and seismic radiation through theory, modeling and observations – Posters

Convener: Mai, P.
 Co-Convener(s): Cocco, M., Madariaga, R., Ampuero, J.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 17:30–19:00
 Poster Area Hall A
 Chairperson: N.N.

A0290; EGU2007-A-05591; SM11-1FR5P-0290
Aochi, H.; Douglas, J.; Ide, S.
 Heterogeneous dynamic rupture modeling for strong ground motion simulation

A0291; EGU2007-A-07468; SM11-1FR5P-0291
Di Carli, S.; **Madariaga, R.;** Holden, C.
 Dynamic inversion of the 2000 Tottori earthquake based on elliptical subfault approximations

A0292; EGU2007-A-07712; SM11-1FR5P-0292
Francois-Holden, C.; Di Carli, S.; Madariaga, R.
 Nonlinear kinematic inversion of the October 2000 Tottori, Japan earthquake

A0293; EGU2007-A-07736; SM11-1FR5P-0293
Francois-Holden, C.; Berrill, J.
 Direct measurement of fault rupture from seismic dense arrays: application to the Alpine Fault, New Zealand

A0294; EGU2007-A-00127; SM11-1FR5P-0294
Baruah, S.; Hazarika, D.; Kayal, J R; Gogoi, N K; Duarah, R; Bora, P K; Mukhopadhyay, S
 Seismotectonics and the current state of stress in Chedrang valley and its vicinity - the rupture area of great Assam earthquake of June 12, 1897 (M=8.7) from waveform and stress tensor inversion

A0295; EGU2007-A-03137; SM11-1FR5P-0295
Kettle, L.; Weatherley, D.; Gross, L.; Mühlhaus, H.-B.; Xing, H.; Mora, P.
 Numerical modelling of earthquakes and fault systems using a dynamic elasto-plastic frictional contact model and the finite element method

A0296; EGU2007-A-09543; SM11-1FR5P-0296
Hok, S.; Cotton, F.; Campillo, M.
 Small-scale resistance heterogeneities influence on earthquake rupture dynamics

A0297; EGU2007-A-08933; SM11-1FR5P-0297
Horálek, J.; Hudová, Z.; Šílený, J.
 The 2000-earthquake Swarm in the Western Part of the Bohemian Massif (Central Europe): Double Couple vs. Non-Double-couple Events

A0298; EGU2007-A-10581; SM11-1FR5P-0298
Durukal, E.; Sesetyan, K.; Madariaga, R.; Erdik, M.
 3-D Modelling of wave propagation in the Marmara Sea region resulting from M7+ events

A0299; EGU2007-A-10623; SM11-1FR5P-0299
Sesetyan, K.; Durukal, E.; Madariaga, R.; Erdik, M.
 3-D Modelling of Wave Propagation resulting from the 2004 Parkfield earthquake

A0300; EGU2007-A-09699; SM11-1FR5P-0300
Fouskitakis, G.; Makris, J; **Vallianatos, F**
 Non-Stationary Functional Series TARMA Modeling of Strong Ground Motion: The Case of Kythira Island Mw 6.9 Earthquake in Greece

SM12 Earthquake ruptures, paleoseismology and seismic hazard models

Convener: Atakan, K.
 Co-Convener(s): Ferry, M.
 Lecture Room 26
 Chairperson: ATAKAN, K. /FERRY, M.

15:30–15:45; EGU2007-A-11485; SM12-1FR4O-001
Meghraoui, M.
 Earthquake clustering along major continental faults: the influence of strain pattern and geometrical complexities on rupture propagation (solicited)

15:45–16:00; EGU2007-A-11352; SM12-1FR4O-002
Sørensen, M.B.; **Atakan, K.;** Pulido, N.
 Implications of fault behaviour and rupture complexity for seismic hazard models

16:00–16:15; EGU2007-A-08837; SM12-1FR4O-003
Macheyeki, A.S.; **Delvaux, D.;** Kervyn, F.; Petermans, T.; Verbeeck, K.; Temu, E.B.
 Occurrence of large paleo-earthquakes along the major Kanda fault system (Tanganyika-Rukwa rift, SW highlands of Tanzania)

16:15–16:30; EGU2007-A-07836; SM12-1FR4O-004
Ferry, M.; Meghraoui, M.; Abou Karaki, N.; Al-Taj, M.
 A 48-kyr-long slip rate history for the Jordan Valley segment of the Dead Sea Fault

16:30–16:45; EGU2007-A-02284; SM12-1FR4O-005
González, Á.; Gómez, J.B.; Pacheco, A.F.
 Earthquake recurrence intervals of Quaternary faults in the USA: relationships with other fault parameters

16:45–17:00; EGU2007-A-10788; SM12-1FR4O-006
Nyst, M.; Williams, C; Onur, T; Seneviratna, P; Baca, A
 A Seismic Risk Model for Italy, Switzerland, Austria, Germany and Belgium

17:00 END OF SESSION

SM12 Earthquake ruptures, paleoseismology and seismic hazard models – Posters

Convener: Atakan, K.
Co-Convener(s): Ferry, M.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 17:30–19:00

Poster Area Hall A

Chairperson: ATAKAN, K./FERRY, M.

A0301; EGU2007-A-00096; SM12-1FR5P-0301

SANÇAR, T.; AKYÜZ, H.S.

Preliminary investigations on Geomorphological and Paleoseismological Studies on Yedisu Seismic Gap, North Anatolian Fault Zone, Eastern Turkey

A0302; EGU2007-A-00171; SM12-1FR5P-0302

Fraser, J.; Pigati, J.; Hubert-Ferrari, A.; Vanneste, K.; Boës, X.; Avsar, U.; Altinok, S.

Development of paleoseismic trench logging and dating techniques: a case study on the Central North Anatolian Fault.

A0303; EGU2007-A-00187; SM12-1FR5P-0303

Karabacak, V.; Altunel, E.; Akyüz, S.; Meghraoui, M.; Yalcýner, C.

Holocene activity of the northern part of the Dead Sea Fault Zone in Southern Turkey

A0304; EGU2007-A-02114; SM12-1FR5P-0304

Yen, I.; Hwung, N.; Chen, W.; Yang, C.; Sung, S.; Lin, C.

Paleoseismology of blind fault in the Eastern Taiwan: the Central part of Longitudinal Valley Fault

A0305; EGU2007-A-03211; SM12-1FR5P-0305

Chen, w.; Yen, I.; Fengler, K.; Rubin, C.; Yang, C.; Yang, H.; Lin, C.; Chang, H.; Lin, H.

Late Holocene paleoearthquake activity along the Juisui fault of the middle Longitudinal Valley fault, eastern Taiwan

A0306; EGU2007-A-04959; SM12-1FR5P-0306

Gómez, J.B.; Abadías, N.; Pacheco, A.F.

Assessing seismic hazard with uncertain paleoseismic data

A0307; EGU2007-A-06480; SM12-1FR5P-0307

Gaspar-Escribano, J. M.; Benito, B.; García-Mayordomo, J.

Seismotectonics and seismic hazard in Southeast Spain: implications for seismic engineering

A0308; EGU2007-A-06720; SM12-1FR5P-0308

Hubert-Ferrari, A.; Boës, X.; Fraser, J.; Avsar, U.; Vanneste, K.; Cagatay, N.; Altunel, E.; de Batist, M.; Fagel, N.

Understanding the irregularity of Seismic cycles: A Case study in Turkey- A Marie Curie Excellence Team Project-

A0309; EGU2007-A-08256; SM12-1FR5P-0309

Ferry, M.; Meghraoui, M.; Abou Karaki, N.; Al-Taj, M.; Barjous, M.; Grootes, P.; Nadeau, M.-J.

A 14-kyr-long seismic history for the Jordan Valley segment of the Dead Sea Fault

A0310; EGU2007-A-08329; SM12-1FR5P-0310

Benetatos, C.; Kiratzi, A.

The 17 October 2005 earthquakes at the Gulf of Sigacik (western Turkey): directivity and slip models for the strongest events

A0311; EGU2007-A-10601; SM12-1FR5P-0311

Dikbas, A.; Akyüz, H. S.; Sunal, G.; Zabcı, C.; Ferry, M.; Yalçın, Ç.; Meghraoui, M.

2D and 3D paleoseismological investigations on Sapanca-Akyazi segment of the 1999 Izmit Earthquake surface rupture, North Anatolian Fault, Turkey

A0312; EGU2007-A-00864; SM12-1FR5P-0312

Zabcı, C.; Karabacak, V.; Sancar, T.; Akyuz, HS; Altunel, E.
Preliminary results of paleoseismological trenching on 1939 Erzincan and 1942 Nıksar-Erbaa earthquake fault segments, the North Anatolian Fault, Turkey

A0313; EGU2007-A-06621; SM12-1FR5P-0313

Vanneste, K.; Verbeeck, K.; Petermans, T.; Yaneva, M.; Nikolov, G.; Béatse, H.

New evidence for prehistoric co-seismic surface rupturing in the Lower Rhine graben area

A0314; EGU2007-A-07735; SM12-1FR5P-0314

Vanneste, K.; Verbeeck, K.; Bruyninx, C.; Camelbeeck, T.
Paleoseismic re-interpretation of a trench across the Geleen fault near Born (The Netherlands), Lower Rhine graben area

A0315; EGU2007-A-07940; SM12-1FR5P-0315

Verbeeck, K.; Radulov, A.; Vanneste, K.; Yaneva, M.; Petermans, T.; Camelbeeck, T.; Shanov, S.

Paleoseismologic investigation of two well-documented historical large earthquakes in the Upper Thracian Depression, southern Bulgaria

SM15 Groundshaking scenarios, ground motion models and site effects (Conveners Fabrice Cotton and Stefano Parolai)

Convener: Cotton, F.

Co-Convener(s): Parolai, S.

Lecture Room 26

Chairperson: N.N.

8:30–8:45; EGU2007-A-02291; SM15-1FR10-001

ZARE, M.; KARIMI-PARIDARI, S.

Spectral Attenuation of Strong Motions for Near Source Motions in Iran

8:45–9:00; EGU2007-A-07399; SM15-1FR10-002

Bindi, D.; Castello, B.; Luzi, L.; Mele, F.; Milana, G.; Pacor, F.; Sabetta, F.

Improving the Italian strong ground motion attenuation relationship: preliminary results with an updated accelerometric data set

9:00–9:15; EGU2007-A-10439; SM15-1FR10-003

Skarlatoudis, A.A.; Papazachos, C.B.; Margaris, B.N.; Papaioannou, Ch.; Vendouzi, Ch.; Vamvakaris, D.; Bruestle, A.; Meier, T.; Friederich, W.; Stavrakakis, G.

Combination of strong- and weak-motion data from both permanent and temporary networks for attenuation studies: The case of the January 8, 2006 Kythera intermediate-depth earthquake

9:15–9:30; EGU2007-A-05944; SM15-1FR10-004

Weatherley, D.; Leonard, M.

Numerical investigations of epistemic uncertainty in attenuation relations

9:30–9:45; EGU2007-A-08371; SM15-1FR10-005

Pacor, F.; Rovelli, A.; Boehm, G.; Albarello, D.; Parolai, S.; Mucciarelli, M.; Ferretti, G.; Scarascia, G.

DPC-INGV S3 Project - The Gubbio experiment: multi-disciplinary investigations for the characterisation of local seismic response.

9:45–10:00; EGU2007-A-04093; SM15-1FR10-006

Pavlenko, O.

Site effects (parameters of soil response) revealed from surface records of a strong earthquake: example of the 1999 Chi-Chi, Taiwan, earthquake

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-08275; SM15-1FR2O-001

Safak, E

New techniques for site characterization from ambient ground noise

10:45–11:00; EGU2007-A-05368; SM15-1FR2O-002

Pinsky, V.; Zaslavsky, Y.

Algorithm for site-effect evaluation from non-stationary seismic noise using a priory knowledge

11:00–11:15; EGU2007-A-03890; SM15-1FR2O-003

Sokolov, V.; Wenzel, F.; Boese, M.

Development of shakemap methodology based on Fourier amplitude spectra and its application for the case of Vrancea (Romania) earthquakes

11:15–11:30; EGU2007-A-07774; SM15-1FR2O-004

Michelini, A.; Malagnini, L.; Worden, B. C.; Wald, D. J.; THE S4 TEAM

Near Real-Time ShakeMaps in Italy

11:30–11:45; EGU2007-A-08139; SM15-1FR2O-005

Cagnan, Z.; Zulfikar, C.; Durukal, E.; Erdik, M.

Development of Shakemap Methodologies for Europe

11:45–12:00; EGU2007-A-11009; SM15-1FR2O-006

Martirosyan, A.; Hansen, R.

Seismic site classification in Alaska for generation of real-time ground shaking maps

12:00 END OF SESSION

SM15 Groundshaking scenarios, ground motion models and site effects (Conveners Fabrice Cotton and Stefano Parolai) – Posters

Convener: Cotton, F.

Co-Convener(s): Parolai, S.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 17:30–19:00

Poster Area Hall A

Chairperson: N.N.

A0316; EGU2007-A-03807; SM15-1FR5P-0316

Maufroy, E.; Ribodetti, A.; Sénéchal, G.; Zeyen, H.; Dietrich, M.; Operto, S.; Gaffet, S.

Seismic imaging for topographic site effect modelling at the Low Noise Underground Laboratory (LSBB), Rustrel, France

A0317; EGU2007-A-01611; SM15-1FR5P-0317

Ehret, D.; Schmitt, S.; Hannich, D.; Osinov, V.

Non-linear Modelling for Estimating Site Effects in Bucharest, Romania

A0318; EGU2007-A-01880; SM15-1FR5P-0318

Oth, A.; Wenzel, F.; Radulian, M.

Source scaling of intermediate-depth Vrancea (Romania) earthquakes with empirical Green's functions

A0319; EGU2007-A-02128; SM15-1FR5P-0319

ZARE, M.; Zahedi Khameneh, A.

Implication of the Empirical Greens Functions for the Simulation of Strong Ground for North Tehran Fault

A0320; EGU2007-A-02286; SM15-1FR5P-0320

García-Jerez, A.; Luzón, F.; Navarro, M.; Enomoto, T.; Pérez-Ruiz, J.A.

An alternative method for determination of Rayleigh and Love wave velocities from microtremor records in a single circular array without central station

A0321; EGU2007-A-02384; SM15-1FR5P-0321

Zaslavsky, Y.; Hofstetter, R.; Perelman, N.

Local site effect assessment using two felt earthquakes recorded by Israel Seismic Network

A0322; EGU2007-A-02551; SM15-1FR5P-0322

Bala, A.; Balan, S.; Hannich, D.; Ritter, J.R.R.; Rohn, J.

Local site effects based on in situ seismic measurements in Bucharest City, Romania

A0323; EGU2007-A-02699; SM15-1FR5P-0323

Barazza, F.; Carniel, R.; Del Pin, E.; Di Cecca, M.; Grima, S.; Malisan, P.; Puntel, E.; Riuscetti, M.

Site effects estimation for the seismic reclassification of Friuli Venezia Giulia, Italy

A0324; EGU2007-A-02935; SM15-1FR5P-0324

Gallovic, F.; Franek, P.

Application of Synthetic Transfer Functions to Earthquake Motion Scenario Study in the Grenoble Valley, French Alps

A0325; EGU2007-A-03741; SM15-1FR5P-0325

Giampiccolo, E.; Langer, H.; Tusa, G.

Peak ground displacement attenuation on Mt Etna – Controlling factors and variability of predictions

A0326; EGU2007-A-04196; SM15-1FR5P-0326

Alvarez, S.; Havenith, H.; Fäh, D.

Seismic ground motion evaluation in the Valais : modelling and response spectra

A0327; EGU2007-A-06196; SM15-1FR5P-0327

Causse, M.; Chaljub, E.; Cotton, F.; Cornou, C.; Bard, P.Y.

Ground motion simulation in the Grenoble valley using empirical and numerical Green's functions

A0328; EGU2007-A-06307; SM15-1FR5P-0328

Mena, B.; Mai, P. M.

Time-frequency characterization of near-fault directivity pulses for structural and geotechnical analysis

A0329; EGU2007-A-06442; SM15-1FR5P-0329

Bergamaschi, F.; Azzara, R.M.

Evaluation of local site effects in the city of Sansepolcro (central Italy): preliminar results obtained by a urban seismic network.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 17:30–19:00

Poster Area Hall A

Chairperson: N.N.

A0330; EGU2007-A-06447; SM15-1FR5P-0330

Zaslavsky, Y.; SET

Site effect investigation using microtremor measurements in towns of Israel for development earthquake damage scenarios: the case study of Haifa Bay area

A0331; EGU2007-A-06497; SM15-1FR5P-0331

Gorstein, M.; Site Effect Team

Construction of analytical subsoil models in ground shaking scenarios using H/V ratios of ambient noise

A0332; EGU2007-A-06546; SM15-1FR5P-0332

Petermans, T.; Rosset, P.; Camelbeeck, T.

Combining ambient noise Measurement with 1D numerical ground Modelling to constrain Site Effects in the Brussels-Capital Region, Belgium.

A0333; EGU2007-A-06946; SM15-1FR5P-0333

Massa, M.; Morasca, P.; Moratto, L.; Marzorati, S.; Augliera, P.; Spallarossa, D.; Costa, G.

Reviewed empirical ground motion attenuation relations for norther Italy using weak and strong motions data

A0334; EGU2007-A-07026; SM15-1FR5P-0334
Massa, M.; Ameri, G.; Pacor, F.; Augliera, P.; Castro, R.
 A method to select EGF by using waveform similarity analysis: an application for modelling the 24 of November 2004 Salò earthquake (northern Italy, MI 5.2)

A0335; EGU2007-A-07866; SM15-1FR5P-0335
 Özyalin, P.; Türk, N.; Akgün, M.; Tunçel, A.; **Yurdakul, A.**
 Microtremor studies in the Izmir province of western Turkey

A0336; EGU2007-A-09119; SM15-1FR5P-0336
 Zulfikar, C.; Cagnan, Z.; Durukal, E.; Erdik, M.
 Consistency of site response in Istanbul based on data from the Istanbul Earthquake Rapid Response System

A0337; EGU2007-A-09466; SM15-1FR5P-0337
Semmane, F.; Allili, T.; Flifla, A.; Ouargli, A.
 Correlation between strong motion parameters and observed damage following the 2003 Boumerdes earthquake.

A0338; EGU2007-A-11155; SM15-1FR5P-0338
 Stupazzini, M.; **Faccioli, E.**
 3D Strong ground Motion Simulation of the Gubbio alluvial basin by GeoELSE

A0339; EGU2007-A-11373; SM15-1FR5P-0339
 Karimi-Paridari, S.; Zaré, M.; Memarian, H.
 Seismic Hazard Zonation of Shahr-e-kord Region, Central Iran, Using Probabilistic Approach

A0340; EGU2007-A-03925; SM15-1FR5P-0340
Sokolov, V.; Bonjer, K.-P.; Wenzel, F.; Radulian, M.; Grecu, B.
 Attenuation relations for the intermediate depth Vrancea (Romania) earthquakes based on Fourier amplitude spectra

A0341; EGU2007-A-04987; SM15-1FR5P-0341
Carvalho, A.; Campos Costa, A.; Sousa Oliveira, C.
 Ground motions relations for Portugal Mainland using a stochastic finite fault modeling

A0342; EGU2007-A-06903; SM15-1FR5P-0342
Awad Hassoup, A
 Estimation of ground motion amplification of the alluvial deposits in the Nile delta, Egypt

A0343; EGU2007-A-10335; SM15-1FR5P-0343
Skarlatoudis, A.A.; Papazachos, C.B.; Moczo, P.; Kristek, J.; Theodoulidis, N.; Apostolidis, P.
 Evaluation of ground motion simulations for the city of Thessaloniki, Greece using the FD method: the role of site effects and focal mechanism at short epicentral distances

Soil System Sciences

SSS4 Organic soils, processes, mechanisms and utilization (co-listed in BG)

Convener: Szajdak, L.
 Co-Convener(s): Miano, T., Blankenburg, J.
 Lecture Room 33
 Chairperson: SZAJDAK, L., MIANO, T. BLANKENBURG, J.

8:30–8:45; EGU2007-A-00392; SSS4-1FR1O-001
Zacccone, C.; Cocozza, C.; Cheburkin, A.; Shoty, W.; Miano, T.M.
 Bromine in peat and related humic acids from ombrotrophic bog and implications in the reconstruction of its fate.

8:45–9:00; EGU2007-A-07174; SSS4-1FR1O-002
 Kalisz, B.; **Lachacz, A.**
 Humus compounds of organic soils developed in river valleys

9:00–9:15; EGU2007-A-02951; SSS4-1FR1O-003
 Veenendaal, E.M.; Hendriks, D.M.D; Kroon, P.; Schrier, A.; **van Huissteden, J.**; Hensen, A.; Duyzer, J.H.; Leffelaar, P.; Berendse, F.; Dolman, A.J.
 Carbon balance and greenhouse gas fluxes in intensive and extensive managed grasslands on peat.

9:15–9:30; EGU2007-A-03236; SSS4-1FR1O-004
Tiemeyer, B.; Frings, J.; Kahle, P.; Lennartz, B.
 Spatial variability of soil properties and shallow groundwater solute concentrations in a degraded peatland

9:30–9:45; EGU2007-A-11095; SSS4-1FR1O-005
Szatyłowicz, J.; Kurzawski, G.; Biernacka, E.; Gnadowski, T.
 The influence of organic soils moisture content on water repellence

9:45–10:00; EGU2007-A-03589; SSS4-1FR1O-006
Sokolowska, Z.; Szajdak, L.; Matyka-Sarzynska, D.
 The function of temperature on the release of dissolved organic matter from muck

10:00 END OF SESSION

SSS22 Ants in the Soil System. A hydrological, chemical and biological approach (co-listed in BG)

Convener: Risch, A.
 Co-Convener(s): Finer, L., Jurgensen, M., Cerda, A.
 Lecture Room 33
 Chairperson: RISCH, AC.

10:30–10:45; EGU2007-A-03634; SSS22-1FR2O-001
Cammeraat, E.
 The impact of ants on soil hydrology, biology and chemistry (solicited)

10:45–11:00; EGU2007-A-01415; SSS22-1FR2O-002
Shakesby, R.A.; Humphreys, G.S.; Doerr, S.H.; Blake, W.H.; Wallbrink, P.J.
 The role of ant activity in limiting the effectiveness of erosive overland flow in eucalypt forests, Central Tablelands, south-east Australia

11:00–11:15; EGU2007-A-01127; SSS22-1FR2O-003
Vlasáková, B.; Dostál, P.; Kovář, P.; Kovářová, M.; Raabová, J.; Rothanzl, J.; Herben, T.
 What ant-induced soil modification is most important for the formation of the vegetation pattern?

11:15–11:30; EGU2007-A-03888; SSS22-1FR2O-004
 Jurgensen, M. F.; Finér, L.; Risch, A. C.; Domisch, T.; Kilpeläinen, J.; Ohashi, M.; Sundström, L.; **Niemelä, P.**
 Do red wood ants (Formica rufa group) play an important role in carbon and nutrient dynamics in boreal forest soils? (solicited)

11:30–11:45; EGU2007-A-00996; SSS22-1FR2O-005
 Kawaguchi, S.
 Soil amelioration by ants in forest steppe of Mongolia.

11:45–12:00; EGU2007-A-03241; SSS22-1FR2O-006
Schuetz, M.; Iravani, M.; Kretz, C.; Risch, AC
 Impact of Formica exsecta Nyl. on grassland soil seed bank and vegetation patterns

12:00 END OF SESSION

SSS22 Ants in the Soil System. A hydrological, chemical and biological approach (co-listed in BG) – Posters

Convener: Risch, A.
Co-Convener(s): Finer, L., Jurgensen, M., Cerda, A.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 13:30–15:00
Poster Area Hall A
Chairperson: FINER, L.

A0344; EGU2007-A-01085; SSS22-1FR3P-0344

Cerdà, A.

Hydrological impact of ants on rangelands soils in Eastern Spain

A0345; EGU2007-A-01087; SSS22-1FR3P-0345

Cerdà, A.

Ants affect the erosion processes on agricultural fields under dry-summer conditions in the western Mediterranean

A0346; EGU2007-A-00501; SSS22-1FR3P-0346

Khan, M.A.H; Mead, M.I.; Nickless, G.; Grealley, B.; Shallcross, D.E.

Leaf cutter ant-fungi relationship and natural halocarbon emission

A0347; EGU2007-A-05965; SSS22-1FR3P-0347

Kilpeläinen, J.; Finér, L.; Domisch, T.; Jurgensen, M. F.; Neuvonen, S.; Niemelä, P.; Ohashi, M.; Punttila, P.; Risch, A. C.; Sundström, L.

Mound-building ants aggregate and redistribute carbon and nutrients in boreal forest floor

A0348; EGU2007-A-06184; SSS22-1FR3P-0348

Domisch, T.; Finér, L.; Ohashi, M.; Kilpeläinen, J.; Risch, A.C.; Sundström, L.; Niemelä, P.; Jurgensen, M.F.

Mass losses and nutrient mineralisation from organic matter in boreal wood ant mounds

A0349; EGU2007-A-06560; SSS22-1FR3P-0349

Frouz, J.; Rybníček, M.; Cudlín, P.

The influence of red wood ants *Formica polyctena* on nutrient availability and growth of spruce tree.

A0350; EGU2007-A-01088; SSS22-1FR3P-0350

Risch, A.C.; Jurgensen, M.F.; Storer, A.J.; Hyslop, M.D.; Schuetz, M.

Distribution of red wood ant (*Formica rufa* group) mounds in Yellowstone National Park: are these species important for ecosystem properties?

A0351; EGU2007-A-05720; SSS22-1FR3P-0351

Storer, A.J.; Jurgensen, M.F.; Risch, A.C.; Delisle, J.; Hyslop, M.D.

The fate of a red wood ant species, *Formica lugubris*, introduced into North America from Europe.

9:15–9:30; EGU2007-A-04540; ST2/PS5.2-1FR1O-003

Ofman, L.; Vinas, A.F.

Heating of solar wind plasma by ion beams and waves: 2D hybrid

9:30–9:45; EGU2007-A-01895; ST2/PS5.2-1FR1O-004

Califano, F.; Pegoraro, F.

Two-fluid collisionless reconnection: transition to a vortex turbulent regime (solicited)

9:45–10:00; EGU2007-A-01815; ST2/PS5.2-1FR1O-005

Panis, J.F.; Sahraoui, F.; Belmont, G.; Rezeau, L.; Levrier, F.; Falgarone, E

Incoherent waves v.s. coherent structures in turbulence: Fourier phase analysis

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-08623; ST2/PS5.2-1FR2O-001

Bruno, R.; Bavassano, B.; D'Amicis, R.; Carbone, V.; Sorriso-Valvo, L.; Noullez, A.

Turbulence and anomalous scaling in the solar wind (solicited)

10:45–11:00; EGU2007-A-08570; ST2/PS5.2-1FR2O-002

Leubner, M. P.

Equilibria, scaling properties and intermittency as consequence of nonextensive duality in space plasmas: theory and observations

11:00–11:15; EGU2007-A-07402; ST2/PS5.2-1FR2O-003

Burgess, D.; Scholer, M.

Dimensionality effects in simulations of collisionless perpendicular shocks

11:15–11:30; EGU2007-A-06322; ST2/PS5.2-1FR2O-004

Schekochihin, A.; Cowley, S.; Dorland, W.; Hammett, G.; Howes, G.; Quataert, E.; Tatsuno, T.; Yousef, T

Gyrokinetic theory and simulations of the turbulence in the solar wind (solicited)

11:30–11:45; EGU2007-A-10720; ST2/PS5.2-1FR2O-005

Elkina, N.; Buechner, J.

The momentum transfer rate due to current-driven turbulence in magnetized plasma

11:45–12:00; EGU2007-A-00321; ST2/PS5.2-1FR2O-006

Antonova, E.E.

Large- and medium-scale plasma transport in the Earth's magnetosphere and the formation of the spectra of magnetospheric turbulence

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2007-A-05377; ST2/PS5.2-1FR3O-001

Modolo, R.; Chanteur, G.M.; Dubinin, E.; Matthews, A.P.; Wahlund, J.-E.

Global hybrid simulations of planetary plasma environment (solicited)

13:45–14:00; EGU2007-A-06112; ST2/PS5.2-1FR3O-002

Travnicek, P.; Hellinger, P.; Schriver, D.; Somr, J.; Paral, J.

Structure of Mercury's magnetosphere: three dimensional hybrid simulations

14:00–14:30; EGU2007-A-11267; ST2/PS5.2-1FR3O-003

Ridley, A.; Wang, H.; Yu, Y.; Toth, G.; De Zeeuw, D.; Gombosi, T

Modeling Results From the Space Weather Modeling Framework During a Variety of Storms (solicited)

Solar-Terrestrial Sciences

ST2/PS5.2 Theory and simulations of solar system plasmas (co-organized by PS)

Convener: Belmont, G.
Co-Convener(s): Büchner, J., Leubner, M., Palmroth, M.
Lecture Room 8
Chairperson: N.N.

8:30–9:00; EGU2007-A-04571; ST2/PS5.2-1FR1O-001

Chapman, S. C.; Hnat, B.; Kiyani, K.; Rowlands, G.; Watkins, N. W.; Wicks, R.; Nicol, R.

Invited: Quantifying and modelling the scaling properties of solar wind turbulence. (solicited)

9:00–9:15; EGU2007-A-00448; ST2/PS5.2-1FR1O-002

Buchlin, E.; Cargill, P. J.; Bradshaw, S. J.; Velli, M.

Turbulent heating and cooling of coronal loops

14:30–14:45; EGU2007-A-05996; ST2/PS5.2-1FR3O-004
Pulkkinen, T. I.; Goodrich, C. C.; Lyon, J. G.
 Solar Wind Electric Field Driving of Magnetospheric Activity: Is it Velocity or Magnetic Field?

14:45–15:00; EGU2007-A-05840; ST2/PS5.2-1FR3O-005
Berchem, J.; Richard, R.
 Large-scale topology of magnetic reconnection at the dayside magnetopause: Results from global simulations

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-04224; ST2/PS5.2-1FR4O-001
Zelenyi, L.; Artemyev, A.; Malova, H.; Popov, V.
 Stability of thin current sheets in the Earth's magnetotail (solicited)

15:45–16:00; EGU2007-A-10346; ST2/PS5.2-1FR4O-002
Divin, A.; Sitnov, M.; Swisdak, M.; Drake, J.
 Reconnection onset in the magnetotail: Particle simulations with open boundary conditions

16:00–16:15; EGU2007-A-07313; ST2/PS5.2-1FR4O-003
Hess, S.; Mottez, F.; Zarka, P.
 Jovian S-bursts generation by Alfvén waves

16:15–16:30; EGU2007-A-06077; ST2/PS5.2-1FR4O-004
Kuznetsov, E.; **Passot, T.;** Sulem, P.L.; Califano, F.; Hellinger, P.; Travnicek, P.
 Theory and simulations of nonlinear mirror modes near instability threshold

16:30–16:45; EGU2007-A-09626; ST2/PS5.2-1FR4O-005
Alexandrova, O.; Grappin, R.; Mangeney, A.
 Stability of an Alfvén vortex: numerical evidence

16:45–17:00; EGU2007-A-07540; ST2/PS5.2-1FR4O-006
BELMONT, G.; Grappin, R.; Mottez, F.; Chust, T.; Hess, S.
 Particle signature of linear Landau damping

17:00 END OF SESSION

ST4 Oscillations of the solar interior and atmosphere

Convener: Ballai, I.
 Co-Convener(s): Gizon, L.
 Lecture Room 11
 Chairperson: BALLAI, I.

8:30–9:00; EGU2007-A-02061; ST4-1FR1O-001
Metcalf, T. S.;
 Computational Seismology using Genetic Algorithms (solicited)

9:00–9:30; EGU2007-A-06507; ST4-1FR1O-002
Nakariakov, V.M.;
 Current trends in coronal seismology (solicited)

9:30–9:45; EGU2007-A-09953; ST4-1FR1O-003
Ballai, I.;
 Global coronal seismology and EIT waves

9:45–10:00; EGU2007-A-08855; ST4-1FR1O-004
Mecheri, R.; Marsch, E.
 Coronal ion-cyclotron beam instabilities: a multi-fluid description

10:00 END OF SESSION

ST5 The 3D heliosphere at solar minimum

Convener: Marsden, R.
 Co-Convener(s): Bothmer, V., Harrison, R.
 Lecture Room 15 (F2)
 Chairperson: N.N.

8:30–9:00; EGU2007-A-02471; ST5-1FR1O-001
Smith, E. J.;
 Ulysses returns to the south polar cap at solar minimum (solicited)

9:00–9:15; EGU2007-A-04338; ST5-1FR1O-002
McComas, D.; Elliott, H.; Schwadron, N.
 Recent Ulysses solar wind observations: Persistent latitude variations in a new polar coronal hole

9:15–9:30; EGU2007-A-09322; ST5-1FR1O-003
Balogh, A.; Smith, E.J.
 Ulysses returns to the south polar cap: Magnetic field observations

9:30–9:45; EGU2007-A-04608; ST5-1FR1O-004
McKibben, R.B.; Connell, J.J.; Lopate, C.; Zhang, M.
 Observations of cosmic ray modulation from the Ulysses COSPIN HET and the IMP-8 CRNC instruments during Ulysses' climb from the heliographic equator to 80° south latitude in 2004-2007

9:45–10:00; EGU2007-A-10226; ST5-1FR1O-005
Decker, R.; **Krimigis, S.;** Roelof, E.
 Voyager 1 in the Heliosheath, Voyager 2 in the Termination Foreshock: An Update

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-08102; ST5-1FR2O-001
Heber, B.; Gieseler, J.; Dunzlaff, P.; Sternal, O.; Mueller-Mellin, R.; Gomez-Herrero, R.; Klassen, A.
 Galactic Cosmic Ray Propagation in the 3D Heliosphere

10:45–11:00; EGU2007-A-06658; ST5-1FR2O-002
Malandraki, O. E.; Marsden, R. G.; Tranquille, C.; Forsyth, R. J.; Elliott, H. A.; Lanzerotti, L. J.; Heber, B.; Mueller-Mellin, R.
 Energetic Particle Observations in the Three-Dimensional Heliosphere

11:00–11:15; EGU2007-A-08384; ST5-1FR2O-003
Mueller-Mellin, R.; Boettcher, S.; Duvet, L.; Gomez-Herrero, R.; Heber, B.; Klassen, A.; Sanderson, T.; Wimmer-Schweingruber, R.
 Solar electron and proton observations: first results from the twin STEREO spacecraft

11:15–11:30; EGU2007-A-02624; ST5-1FR2O-004
Kellogg, P.J.; Goetz, K.; Monson, S.J.
 STEREO measurements of rapid density fluctuations and Langmuir waves

11:30–12:00; EGU2007-A-01692; ST5-1FR2O-005
Manchester, W.B.; **Gombosi, T.I.;** Sokolov, I.V.; Cohen, O.
 Simulated CMEs and predictions for STEREO (solicited)

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–14:00; EGU2007-A-11337; ST5-1FR3O-001
Howard, R.; THE SECCHI TEAM
 The SECCHI experiment on the STEREO mission (solicited)

14:00–14:30; EGU2007-A-02013; ST5-1FR3O-002
Harrison, R.A.; Davis, C.J.; Eyles, C.J.; Halain, J.-P.; Moses, D.; Howard, R.; Defise, J.M.
 First Light of the Heliospheric Imagers on STEREO (solicited)

14:30–15:00; EGU2007-A-04513; ST5-1FR3O-003
Luhmann, J. G.; **Russell, C. T.;** Schroeder, P.; Mewaldt, R. A.; IMPACT TEAM
 STEREO/IMPACT: first look (solicited)

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–16:00; EGU2007-A-07002; ST5-1FR4O-001
Blush, L. M.; Bochsler, P.; Farrugia, C.; Galvin, A.; Kistler, L.; Klecker, B.; Möbius, E.; Popecki, M.; Wimmer-Schweingruber, R. F.; Wurz, P.; The PLASTIC Team
 The Plasma and SupraThermal Ion Composition (PLASTIC) Instrument Onboard STEREO: First Results (solicited)

16:00–16:30; EGU2007-A-05763; ST5-1FR4O-002
Maksimovic, M.; Bougeret, J.-L.; Goetz, K.; Bale, S.D.; Kaiser, M.L.; Kellogg, P.J.; Reiner, M.J.; Cecconi, B.; MacDowall, R.J.; Krucker, S.; S/WAVES team
 First results of the S/WAVES experiment on the Stereo mission. (solicited)

16:30–17:00; EGU2007-A-01010; ST5-1FR4O-003
Bothmer, V.
 STEREO - The European Science Perspective (solicited)

17:00 END OF SESSION

ST12 Open session on the ionosphere and thermosphere including connections to regions above and below

Convener: Zolesi, B.
 Co-Convener(s): Aruliah, A.
 Lecture Room 11
 Chairperson: ARULIAH,A.

10:30–11:00; EGU2007-A-07495; ST12-1FR2O-001
Balan, N.; **Alleyne, H.;** Aylward, A. D.; McCrea, I.; Andre, M.; Jensen, J.; Fejer, B. G.; Bailey, G. J.
 Response of the Global Ionosphere to CME Events: Observations and Modelling (solicited)

11:00–11:15; EGU2007-A-00025; ST12-1FR2O-002
Klimenko, M.V.; Klimenko, V.V.; Bryukhanov, V.V.
 Numerical Modeling of Dependence of Equatorial Electrojet, Generated by Dynamo-field, from Solar Activity Level for all Seasons

11:15–11:30; EGU2007-A-00350; ST12-1FR2O-003
Oyekola, O. S.; Akinremi Ojo, R.; Akinrimisi, J.
 Vertical drift velocity measurements at F-region low latitude ionosphere

11:30–11:45; EGU2007-A-00714; ST12-1FR2O-004
Garcia, G.; Forme, F.
 A kinetic model for runaway electrons in the ionosphere

11:45–12:00; EGU2007-A-00866; ST12-1FR2O-005
Aramyan, A.; Bilén, S.; Galechyan, G.; Hrutyunyan, G.; Mangasaryan, N.; Soroka, S
 Modeling and Natural Researches of Physical Processes in the Upper Layers of The Atmosphere

12:00 LUNCH BREAK

Chairperson: ZOLESI,B.

13:30–13:45; EGU2007-A-01219; ST12-1FR3O-001
Liu, L.; Le, H.; Wan, W.
 The scale heights based on the Arecibo incoherent scatter radar measurements

13:45–14:00; EGU2007-A-01335; ST12-1FR3O-002
Tsurutani, B.T.; The Dayside Superfountain Team
 The dayside superfountain effect: Observations and modeling

14:00–14:15; EGU2007-A-01615; ST12-1FR3O-003
Vanhamäki, H.; Amm, O.; Viljanen, A.
 A new method to estimate ionospheric electric fields and currents using ground magnetic data from a local magnetometer network

14:15–14:30; EGU2007-A-01924; ST12-1FR3O-004
Kozlovsky, A.; Aikio, A.; Turunen, T.; Nilsson, H.; Sergienko, T.; Safargaleev, V.; Kauristie, K.
 Field-aligned currents associated with Sun-aligned auroral arcs in the morning sector

14:30–14:45; EGU2007-A-01964; ST12-1FR3O-005
Amm, O.; Juusola, L.; Nakamura, R.; Sergeev, V.A.
 Conjugate Cluster and MIRACLE observations during an omega band event

14:45–15:00; EGU2007-A-02151; ST12-1FR3O-006
Lühr, H.; Maus, S.; Stolle, C.
 First direct observation of the F region dynamo currents by CHAMP

15:00 COFFEE BREAK

Chairperson: ARULIAH,A.

15:30–15:45; EGU2007-A-04718; ST12-1FR4O-001
Webb, P.; Benson, R.; Grebowsky, J.; Bilitza, D.; Huang, X.
 Global variations in topside ionospheric electron-density profiles over two solar cycles

15:45–16:00; EGU2007-A-05145; ST12-1FR4O-002
Yuan, Y.B.; Wen, D.B.; Ou, J.K.; **Huo, X.L.**
 A hybrid reconstruction algorithm for three-dimensional ionospheric tomography

16:00–16:15; EGU2007-A-05829; ST12-1FR4O-003
Zhou, Y.L.; Ma, S.Y.; Luehr, H.; Liu, R.S.
 Wave-like structures in upper thermosphere from CHAMP accelerometer measurements

16:15–16:30; EGU2007-A-06299; ST12-1FR4O-004
Simon, C.; Lilensten, J.; Moen, J.; Holmes, J.M.; Ogawa, Y.; Oksavik, K.; Denig, W.F.
 TRANS4, a new coupled electron/proton transport code - Comparison to observations above Svalbard using ESR, DMSP and optical measurements

16:30–16:45; EGU2007-A-07146; ST12-1FR4O-005
Rothkaehl, H.; Krankowski, A.; Blecki, J.; Parrot, M.; Berthelier, J.-J.; Lebreton, J.-P.
 Dynamic and fine structure of main ionospheric trough-unique boundary layer, recent, new in situ measurements and GNSS diagnostics

16:45–17:00; EGU2007-A-07444; ST12-1FR4O-006
Barthelemy, M.; Moen, J.; Lilensten, J.; Simon, C.; Thissen, R.; Lorentzen, D. A.; Dutuit, O.
 Considering the polarization of the oxygen thermospheric red line for Space Weather studies: theory and first measurements

17:00 END OF SESSION

Stratigraphy, Sedimentology and Palaeontology

SSP2 Sedimentary cyclicity in basinal deposits: possible mechanisms (co-sponsored by IAS)

Convener: Reijmer, J.
Lecture Room 32
Chairperson: REIJMER, J.J.G.

8:30–8:45; EGU2007-A-01262; SSP2-1FR1O-001
Munnecke, A; Westphal, H
Calcareous rhythmites - how to read the environmental signal behind diagenesis (solicited)

8:45–9:00; EGU2007-A-00137; SSP2-1FR1O-002
Westphal, H; Munnecke, A; Böhm, F; Brandano, M; Corda, L; Bornholdt, S
Potential diagenetic distortions of primary signals in rhythmic calcareous successions – box models and Neogene examples (solicited)

9:00–9:15; EGU2007-A-02283; SSP2-1FR1O-003
Pittet, B.; Mattioli, E.
A diagenetic origin of non-diagenetic marl-limestone alternations ? a test of applicability of the diagenetic model of Munnecke et al. (2001) (solicited)

9:15–9:30; EGU2007-A-02801; SSP2-1FR1O-004
Mattioli, E.; Pittet, B.
The contribution of calcareous nannofossils to the understanding of the origin of marl-limestone alternations

9:30–9:45; EGU2007-A-09436; SSP2-1FR1O-005
Beltran, C.; de Rafélis, M.; Renard, M.
Limestone-marl alternations : Preservation of primary environmental variation records

9:45–10:00; EGU2007-A-02391; SSP2-1FR1O-006
Reuning, L.; **Reijmer, J.J.G;** Mattioli, E.; Betzler, C.
On the origin of semiprecessional cycles in carbonate periplatform deposits

10:00 END OF SESSION

SSP3 Dynamics of Sedimentary Basins - Evolution, Salt- and Fluid Dynamic (co-listed in GD & TS)

Convener: Bayer, U.
Co-Convener(s): Littke, R., Marotta, A., Thybo, H., Gajewski, D.
Lecture Room 32
Chairperson: N.N.

10:30–10:45; EGU2007-A-01113; SSP3-1FR2O-001
Li, M.B; Jin, X.L; Li, J.B; Fang, Y.X; Liu, J.H; Tang, Y.
Sequence stratigraphy and depositional evolution of slope basins in mid -northern margin of South China Sea

10:45–11:15; EGU2007-A-02662; SSP3-1FR2O-002
Schoenherr, J.; Heimann, A.; Reuning, L.; Urai, J.L.; Littke, R.; Kukla, P.A.; Holland, M.; Rawahi, Z.
Geologic evolution of surface-piercing salt domes in the Ghaba Salt Basin, Interior Northern Oman: First results (solicited)

11:15–11:30; EGU2007-A-01048; SSP3-1FR2O-003
Cacace, M.; Bayer, U.; Marotta, A. M.
Mesozoic evolution of the Central European Basin System (CEBS): constraints from numerical modelling

11:30–11:45; EGU2007-A-03313; SSP3-1FR2O-004
Sippel, J.; Scheck-Wenderoth, M.; Reicherter, K.; Mazur, S.
Paleostress analysis applied to fault-slip data from the southern margin of the Central European Basin System (CEBS)

11:45–12:00; EGU2007-A-03034; SSP3-1FR2O-005
van Gent, H.W.; Back, S.; Urai, J.L.; Kukla, P.A.
Paleostress analysis of the Groningen gas field, the Netherlands, based on high-resolution 3D seismic data.

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2007-A-05559; SSP3-1FR3O-001
Baykulov, M.; Brink, H.-J.; Gajewski, D.; Yoon, M.-K.
CRS processing and depth migration of seismic reflection data from Northern Germany

13:45–14:00; EGU2007-A-08731; SSP3-1FR3O-002
Arndt, S.; Göze, H.-J.; Hese, F.; **Rabbel, W.;** Schlesinger, A.
Correlation of basement structure and sedimentary basin tectonics – new results from the CORTEC project

14:00–14:30; EGU2007-A-01091; SSP3-1FR3O-003
Magri, F.; Bayer, U.
Brine migration in relation to young processes: the Schleswig-Holstein example. (solicited)

14:30–14:45; EGU2007-A-05151; SSP3-1FR3O-004
Gottikh, R. P.; Pisotskiy, B. I.; **Plotnikova, I. N.**
Trace Elements of Oil of Tatarstan as Example of Interaction of Deep Process with the Sediment Fill

14:45–15:00; EGU2007-A-09677; SSP3-1FR3O-005
Mazzini, A.; Svensen, H.; Akhmano, G. G.; Istadi, B.; Planke, S.
Pulsating and quasi-hydrothermal mud volcanism at LUSI, Indonesia

15:00 END OF SESSION

SSP5/BG8 Microbial Carbonates (co-sponsored by IAS and co-organized by BG) – Posters

Convener: McKenzie, J.
Co-Convener(s): Vasconcelos, C.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 08:30–10:00
Poster Area Hall A
Chairperson: N.N.

A0352; EGU2007-A-06247; SSP5/BG8-1FR1P-0352
Glunk, C.; Dupraz, C.; Braissant, O.; Wieland, A.; Verrecchia, E.; Visscher, P.
Preservation of biogenic calcium carbonate precipitates in hypersaline microbial mats (Eleuthera, Bahamas)

A0353; EGU2007-A-04007; SSP5/BG8-1FR1P-0353
Mulec, J.; Walochnik, J.
Amoebae in carbonate precipitating microenvironments in karst caves

A0354; EGU2007-A-10250; SSP5/BG8-1FR1P-0354
Rosales, I.; Ranero, C.R.
Early Cretaceous fossil bacteria and biofilms in hydrothermally-supported carbonate chemohermes.

A0355; EGU2007-A-06354; SSP5/BG8-1FR1P-0355
Sanz-Montero, M.E.; García del Cura, M.A.; Rodríguez-Aranda, J.P.; Calvo, J.P.
 Dolomite from Miocene lacustrine deposits of the Madrid and Duero basins (Central Spain). Evidences for its microbial origin

A0356; EGU2007-A-05249; SSP5/BG8-1FR1P-0356
Kuznetsov, V.
 Synchronic development of the Cyanobacteria and changing carbonate mineralogy in the geological history – key to decision of the dolomite problem?

A0357; EGU2007-A-06048; SSP5/BG8-1FR1P-0357
Vakarchuk, S.; Dovzhok, T; Chepil, P
 Main morphogenetic types of Mississippian carbonate buildups in the Dnieper-Donets basin (their structure and paleogeography)

SSP18 Paleo-environmental indicators in carbonate systems (co-sponsored by IAS) – Posters

Convener: Mutti, M.
 Co-Convener(s): Samankassou, E.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 08:30–10:00
 Poster Area Hall A
 Chairperson: N.N.

A0358; EGU2007-A-06495; SSP18-1FR1P-0358
Di Lucia, M.; Parente, M.; Frijia, G.
 The Orbitolina level of southern Apennines: a tale of nutrient fluctuations and stratigraphic condensation.

A0359; EGU2007-A-06539; SSP18-1FR1P-0359
Kiefer, E.; **Loisy, C.;** Cerepi, A
 Contribution to the analysis of sedimentological and diagenetic processes associated with subaerial exposure: Example of Palaeocene Campo-Merli transect (South Pyrenees, Spain)

A0360; EGU2007-A-07413; SSP18-1FR1P-0360
Pirson, S.; **Court-Picon, M.;** Damblon, F.; Haesaerts, P.; Debenham, N.; Draily, C.
 Belgian cave entrance and rock-shelter sequences as palaeoenvironmental and palaeoclimatic data recorders: the example of the Walou cave multi-proxy study.

A0361; EGU2007-A-08010; SSP18-1FR1P-0361
Graziano, R.; Carannante, G.; Simone, L.
 The Inception and Evolution of the Late Cretaceous Rudist Bearing Carbonate Platforms in the Mediterranean Tethys: Mirror of Geodynamically Induced Biosphere-Geosphere Interactions.

A0362; EGU2007-A-09054; SSP18-1FR1P-0362
Najarro, M.; Rosales, I.; Martín Chivelet, J.
 Sedimentological and diagenetic studies in Early Cretaceous carbonates as indicators of environmental change: the prelude of the early Aptian Oceanic Anoxic Event (OAE1a).

A0363; EGU2007-A-09757; SSP18-1FR1P-0363
Moellerhenn, S.; **Zamagni, J.;** Kosir, A.; Mutti, M.
 Thanetian coral-microbialites from the northern Tethys (SW Slovenia): palaeoenvironmental interpretation

A0364; EGU2007-A-11183; SSP18-1FR1P-0364
Bova, J.; Agar, S.; Derewetzký, A.; Hartley, N.; Hillock, P.; Hughes, T.; Iannello, C.; McKerron, A.; Simo, T.
 Chaotic megabreccias and deep water carbonate facies, Lower Oligocene, Costa Blanca, Spain

Tectonics and Structural Geology

TS5.1 Failed vs. successful rifts: mechanisms for rift evolution – Posters

Convener: Van Wijk, J.
 Co-Convener(s): Corti, G., Meyer, R., Mauduit, T.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 08:30–10:00
 Poster Area Halls X/Y
 Chairperson: MEYER, R., MAUDUIT, T.

XY0519; EGU2007-A-11447; TS5.1-1FR1P-0519
Martín, A.; Helenes, J.; González, M.; Aragón, M.; García, J.; Carreño, A.L.; Pacheco, M.
 Neogene Evolution of Rifting in the Northern Gulf of California: Tectonostratigraphic analysis of seismic reflection and borehole data

XY0520; EGU2007-A-10330; TS5.1-1FR1P-0520
Pedersen, T.; Almaas, I. J.
 The Oslo Graben: a magmatic rift that 'failed'

XY0521; EGU2007-A-02077; TS5.1-1FR1P-0521
van Wijk, J.; Lawrence, J.
 Numerical modeling of West Antarctic Rift System extension and Transantarctic Mountains uplift

XY0522; EGU2007-A-01921; TS5.1-1FR1P-0522
Storti, F.; Balestrieri, M.L.; Balsamo, F.; Rossetti, F.; Salvini, F.
 The two-stage rifting history of the West Antarctic Rift System: a reappraisal from structural and thermochronological investigations in North Victoria Land

XY0523; EGU2007-A-02890; TS5.1-1FR1P-0523
Bonini, M.; **Corti, G.;** DelVentisette, C.; Manetti, P.
 Modelling the lithospheric rheology control on the Cretaceous rifting in West Antarctica

XY0524; EGU2007-A-08686; TS5.1-1FR1P-0524
Petit, C.; Déverchère, J.
 The Baikal rift deep structure and evolution: insights from gravity, thermal and topography modelling

XY0525; EGU2007-A-03237; TS5.1-1FR1P-0525
Autin, J.; Leroy, S.; d'Acremont, E.; Beslier, M.-O.; Ribodetti, A.; Courrèges, E.; Perrot, J.; Bellahsen, N.
 Structure and evolution of the north-eastern Gulf of Aden margin

XY0526; EGU2007-A-11339; TS5.1-1FR1P-0526
Delvaux, D.
 Kinematic model of the East African rift based on stress inversion of geological and seismological data

XY0527; EGU2007-A-07500; TS5.1-1FR1P-0527
Pinzuti, P.; Humler, H.; Manighetti, I.; Gaudemer, Y.
 Spatial and temporal evolution of the magmatism in the Asal-Ghoubbet rift, Afar depression

XY0528; EGU2007-A-07941; TS5.1-1FR1P-0528
Mauduit, T. PO.; van Wijk, J.; Sokoutis, D.; Cloetingh, S.
 Basin Migration: Lithospheric vs. Crustal Controls

XY0529; EGU2007-A-11040; TS5.1-1FR1P-0529
Gac, S.; Huisman, R.S.; Austegard, A.
 Role of lower crustal flow during post-rift sedimentary basin evolution

XY0530; EGU2007-A-09448; TS5.1-1FR1P-0530
Meyer, R.; Abratis, M.; Schneider, J.; Viereck-Götte, L.
 Geochemical signatures of rift-related igneous rocks in the Cenozoic Central European Volcanic Province

XY0531; EGU2007-A-07264; TS5.1-1FR1P-0531
Minshull, T. A.; Shillington, D. J.; Scott, C. L.; White, N. J.; Edwards, R. A.
 Abrupt crustal thinning at the southern margin of the eastern Black Sea basin

XY0532; EGU2007-A-06500; TS5.1-1FR1P-0532
 de Wit, MJ; **Stankiewicz, J**
 Restoring Pan African-Brasiliano connections: more Gondwana control, less Trans-Atlantic corruption.

Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00

TS Poster Area
 Chairperson: N.N.

TS5.2/SSP24 Processes of rifting, sediment transport, fluid flow and biogenic activity: EUROMARGINS open session (co-organized by SSP) (co-listed in BG & CL) – Posters

Convener: Mienert, J.
 Co-Convener(s): Avril, B.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 08:30–10:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0533; EGU2007-A-10916; TS5.2/SSP24-1FR1P-0533
Avril, B.
 EUROMARGINS Programme: An Overview

XY0534; EGU2007-A-10930; TS5.2/SSP24-1FR1P-0534
 Avril, B.
 An Introduction to the EuroMARC Programme (Challenges of Marine Coring Research)

XY0594; EGU2007-A-10871; TS5.2/SSP24-1FR1P-0594
Comas, M.C.; Marsibal 1-06 Scientific Party
 Preliminary results of Marsibal 1-06 cruise on the Alboran and western Algero-Balearic basins

XY0535; EGU2007-A-02616; TS5.2/SSP24-1FR1P-0535
Abdelmalak, M.M.A.; Leroy, M.L.; Gelard, J.P.G.; Aite, R.A.; Geoffroy, L.G.
 Full 3D structure, tectonic development and modelling of the Svartenhuk inner-SDR wedge (Greenland): a model to explain syn-magmatic break-up processes in the NE-Atlantic

XY0536; EGU2007-A-11132; TS5.2/SSP24-1FR1P-0536
Biarc, A.I.; Hartz, E.H.; Hovius, N.; Juez-Larré, J.; Andriessen, P.A.M
 The East Greenland passive margin of the Scoresbysund region : Cooling story of the Jameson Land Basin and the surrounding basement rocks.

XY0537; EGU2007-A-09686; TS5.2/SSP24-1FR1P-0537
Rejas, M.; Pueyo, J.J.; Taberner, C.; Giralt, S.; Mata, P.; Díaz del Río, V.
 Mineralogical and Geochemical characterization of the Gulf of Cadiz (SW Spain) mud volcanoes: main trends and biochemical processes.

XY0538; EGU2007-A-03940; TS5.2/SSP24-1FR1P-0538
Duarte, J.C.; Rosas, F.; Terrinha, P.; Valadares, V.; Matias, L.; Roque, C.; Magalhães, V.; Henriët, J.P.; Taborda, R.; Pinheiro, L.
 Deep Submarine Giant Scours in northern Gulf of Cadiz (offshore SW Iberia): a singular case of sedimentary and tectonic coupling?

XY0539; EGU2007-A-06742; TS5.2/SSP24-1FR1P-0539
 Rosas, F.M.; **Duarte, J.C.;** Terrinha, P.; Vicente, J.; Matias, L.; Valadares, V.; Duarte, H.; Roque, A.C.
 Strain partitioning and westwards migration of deformation in NW Gulf of Cadiz (Africa-Iberia plate boundary)

XY0540; EGU2007-A-06963; TS5.2/SSP24-1FR1P-0540
González, F. J.; Somoza, L.; Pinheiro, L.M.; Magalhães, V.H.; Ivanov, M.; Lunar, R.; Martínez-Frías, J.; Martín Rubí, J.A.; León, R.; Díaz del Río, V.
 Authigenic pyrite mediated by extremophile microorganisms related with active methane-seeps in the Gulf of Cadiz: evidences from textural, geochemical and underwater observations

XY0541; EGU2007-A-08287; TS5.2/SSP24-1FR1P-0541
Maignien, L.; Depreiter, D.; Foubert, A.; Boon, N.; Vertsraete, W.; Henriët, J.-P.
 Geochemistry of carbonate mounds from the Pen Duick escarpment in the Gulf of Cadiz

XY0542; EGU2007-A-01738; TS5.2/SSP24-1FR1P-0542
CAJA, M.A.; MARFIL, R.; GARCIA, D.; REMACHA, E.; MANSURBEG, H.; MORAD, S.; AMOROSI, A.
 Provenance and reservoir quality of carbonate-rich turbiditic arenites from the Hecho Group, South Central Pyrenees, Spain

XY0543; EGU2007-A-08138; TS5.2/SSP24-1FR1P-0543
Ambblas, D.; Gerber, T.; Canals, M.; Urgeles, R.; Lastras, G.; Calafat, A.M.
 Controls on submarine erosion in the Valencia Channel Turbiditic System, NW Mediterranean Basin

XY0544; EGU2007-A-09149; TS5.2/SSP24-1FR1P-0544
Lafuerza, S.; Sultan, N.; Canals, M.; Frigola, J.; Berné, S.; Galavazi, M
 Excess pore pressure within continental slope sediments in the Gulf of Lion: a piezocone approach

XY0545; EGU2007-A-10589; TS5.2/SSP24-1FR1P-0545
 Martínez-García, P.; Perez-Hernandez, S.; Comas, M.C.; MARSIBAL I-06 Scientific Party
 Active tectonics related to major faults zone in the Alboran and western Algerian-Balearic basins.

XY0546; EGU2007-A-07784; TS5.2/SSP24-1FR1P-0546
Feseker, T.; Foucher, J.-P.; Dähmann, A.; Harmegnies, F.
 In-situ sediment temperature and geochemical porewater data suggest highly dynamic fluid flow at Isis mud volcano, eastern Mediterranean sea

XY0547; EGU2007-A-08410; TS5.2/SSP24-1FR1P-0547
Dupré, S.; Buffet, G.; Mascle, J.; Foucher, J.-P.; Boëtius, A.; Woodside, J.; Marfia, C.
 Mud volcanoes and pockmarks mapped with the AUV AsterX offshore Egypt

XY0548; EGU2007-A-09272; TS5.2/SSP24-1FR1P-0548
Zitter, TAC.; Henry, P.; Delaygue, G.; Aloisi, G.; Cagatay, M.N.; Pekdeger, A.; Al-Samir, M.; Wallman, K.; Lericollais, G.; Armijo, R
 Fluid pathways to venting sites in the Sea of Marmara

XY0549; EGU2007-A-06423; TS5.2/SSP24-1FR1P-0549
 Tessema, A.
 Crustal structure of the southern Ethiopian rift: evidence from forward and inverse modeling of gravity and topographic data

TS8.1 Tectonics and magmatism: Interactions from the grain- to the orogen-scale – Posters

Convener: Rosenberg, C.

Co-Convener(s): Berger, A.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 08:30–10:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0550; EGU2007-A-02950; TS8.1-1FR1P-0550

Montanari, D.; Corti, G.; Sani, F.; Bonini, M.; Moratti, G.
Laboratory experiments of magma emplacement during shortening

XY0551; EGU2007-A-05135; TS8.1-1FR1P-0551

Gébelin, A.; **Ferré, E.C.;** Lin, S.; Chatterjee, S.
Relationship between shear zones and plutons in the Archean: example from the Pukaskwa batholith, Superior Province, Ontario

XY0552; EGU2007-A-10327; TS8.1-1FR1P-0552

Pereira, M.F.; Fernández, C.; Silva, J.B.; Chichorro, M.; **Díaz Azpiroz, M.;** Moreno-Ventas, I.; Castro, A.
Shearing and mechanical mobility of diatexites: example from the Almansor stream (Ossa-Morena zone, Portugal)

XY0553; EGU2007-A-05146; TS8.1-1FR1P-0553

Krucken, S.C.; **Ferré, E.C.;** Teyssier, C.; Gébelin, A.; Vanderhaeghe, O.; Whitney, D.L.
Flow of the partially molten continental crust during Miocene orogenic collapse in Naxos, Greece

XY0554; EGU2007-A-06350; TS8.1-1FR1P-0554

Cenki-Tok, B.; Berger, A.
Evidence for microdomain formation and preservation in ultra high temperature granulites: Implications for the behaviour of melt in the lower crust.

XY0555; EGU2007-A-07054; TS8.1-1FR1P-0555

Berger, A.; Burri, T.; Rosenberg, C.L.
Volume changes during water-assisted melting and their effect on the structures of deformation

XY0556; EGU2007-A-03421; TS8.1-1FR1P-0556

Rosenberg, C.; Medvedev, S.; Handy, M.
Rheological effects of very small melt fractions (0.01 to 0.07) in crustal rocks

XY0557; EGU2007-A-08894; TS8.1-1FR1P-0557

Abart, R.; Petrishcheva, E.; Rhede, D.; Wirth, R.
The dynamics of perthite formation: a potential geospeedometer for high grade metamorphic rocks

XY0558; EGU2007-A-08947; TS8.1-1FR1P-0558

Petrishcheva, E.; Abart, R.
Anisotropic model of spinodal decomposition: application to exsolution in alkali feldspar

XY0559; EGU2007-A-06823; TS8.1-1FR1P-0559

Gee, D.;
Wedge-tectonics superimposed on channel flow in the Scandinavian Caledonides

XY0560; EGU2007-A-00580; TS8.1-1FR1P-0560

Charusiri, P.; Khamphavong, K.; Sutthirath, C.; Lunwongsa, W.; Inthasopa, S.
Multiple Tectono-magmatic and Metallogenic Episodes of Eastern Thailand and Central Lao PDR

XY0561; EGU2007-A-08385; TS8.1-1FR1P-0561

Gongalskiy, B.I.; Krivolutskaya, N.A.
The Udokan-Chiney ore-magmatic system in the North-transbaikalia, Siberia, Russia

XY0562; EGU2007-A-03984; TS8.1-1FR1P-0562

Luchitskaya, M.V.; Tikhomirov, P.L.
Cretaceous granitoid magmatism of North-East Russia: tectonic setting, rock chemistry, isotopy and P-T conditions of formation

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 10:30–12:00

TS Poster Area

Chairperson: N.N.

TS8.3 Tectonics and magmatism during continental rifting and break-up – Posters

Convener: Perez-Gussinye, M.

Co-Convener(s): Huisman, R., Shillington, D.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 08:30–10:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0563; EGU2007-A-00451; TS8.3-1FR1P-0563

Otrodi, S.; Vosoughi Abedini, M.; Pourmoafi, S.M.
Geochemistry and tectono-magmatic environment of ultramafic-intermediate intrusive bodies in Chahghand complex, Sanandaj-Sirjan Zone, Iran

XY0564; EGU2007-A-11142; TS8.3-1FR1P-0564

Dovzhok, T.; Kolos, V.; Vakarchuk, S.
Fault-and-Block Tectonics of the Dnieper-Donets riftogenous basin

XY0565; EGU2007-A-05700; TS8.3-1FR1P-0565

Antipov, M.; Volozh, Yu.; Kheraskova, T.
The stages of Mesoproterozoic and Neoproterozoic rifting and evolution of grabens in East European platform

XY0566; EGU2007-A-05524; TS8.3-1FR1P-0566

Tüysüz, O.;
When did the Black Sea opened?: Data from the Pontide sedimentary basins and magmatic belt

XY0567; EGU2007-A-05355; TS8.3-1FR1P-0567

Al-Zoubi, AS
Sagging of the Dead Sea basin: geometry of the southern and northern ends

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0568; EGU2007-A-01111; TS8.3-1FR2P-0568

Dyuzhikov, O.; Sharkov, E.
Evolution of large igneous provinces of the North Eurasia

XY0569; EGU2007-A-04352; TS8.3-1FR2P-0569

Wagner, G.; Reston, T.J.; Flueh, E.R.; Klaeschen, D.
Traveltime modelling of seismic wide-angle data collected in Porcupine Basin, west of Ireland

XY0570; EGU2007-A-04444; TS8.3-1FR2P-0570

Gaw, V.; **Reston, T.J.;** Klaeschen, D.
Depth imaging of detachment tectonics in the Porcupine Basin west of Ireland

XY0571; EGU2007-A-07090; TS8.3-1FR2P-0571

Shillington, DJ.; Van Avendonk, HJA; Minshull, TA
Investigating the transition from rifting to spreading on magma-poor margins using basement and Moho topography

XY0572; EGU2007-A-04527; TS8.3-1FR2P-0572

Lau, K.W.H.; Loudon, K.E.

Systematic patterns of asymmetric extension and breakup based on seismic models of the Iberia-Newfoundland and other North Atlantic non-volcanic conjugate margins

XY0573; EGU2007-A-08185; TS8.3-1FR2P-0573

Pérez-Gussinyé, M.; Phipps Morgan, J.; Reston, T.J.; R. Ranero, C.

The rift to drift transition at non-volcanic margins: Insights from numerical modelling.

XY0574; EGU2007-A-04206; TS8.3-1FR2P-0574

Fletcher, R. J.; Kusznir, N. J.

Mantle exhumation at non-volcanic rifted margins due to melt suppression during continental break-up and seafloor spreading initiation.

XY0575; EGU2007-A-03623; TS8.3-1FR2P-0575

Jagoutz, O.; Müntener, O.; Manatschal, G.; Turrin, B.D.; Villa, I.M.

The rift-to-drift transition in the North Atlantic: A stuttering start of the MORB machine?

XY0576; EGU2007-A-10088; TS8.3-1FR2P-0576

Abratis, M.; Viereck-Goette, L.; Meyer, R.; Hertogen, J.; Pedersen, R.

Crustal melting during the initiation of continental breakup – examples from the North Atlantic Igneous Province

TS9.1 The influence of pre-existing structures upon the development and evolution of geological architectures

Convener: Holdsworth, R.

Co-Convener(s): Clifton, A., Bergh, S., McCaffrey, K., Wilson, R.

Lecture Room 3

Chairperson: N.N.

8:30–8:45; EGU2007-A-04326; TS9.1-1FR10-001

Holdsworth, R.E.; Jefferies, S.P.; Imber, J.; Smith, S.A.F

The role of pre-existing fracture networks and cataclasis in the development of weak faults: a review

8:45–9:00; EGU2007-A-03712; TS9.1-1FR10-002

Soden, A. M.; Shipton, Z. K.

Fault rock generation & fault evolution in densely welded ignimbrites: the role of pre-existing joints & host rock fabric

9:00–9:15; EGU2007-A-04691; TS9.1-1FR10-003

Kastelic, V.; Vrebec, M.; Cunningham, D.

The Role of Inherited Structures on Temporal Development, Fault Propagation and Seismicity Distribution – an Example of an Active Strike-Slip Fault

9:15–9:30; EGU2007-A-04179; TS9.1-1FR10-004

Leslie, A.G.; Krabbendam, M.

Localisation of brittle and ductile lateral thrust ramps and culmination walls above reactivated steep basement shear zones, Caledonian Moine Thrust Zone, NW Scotland

9:30–9:45; EGU2007-A-05400; TS9.1-1FR10-005

Espurt, N.; Baby, P.; Brusset, S.; Hermoza, W.; Roddaz, M.; Tejada, E.R.; Bolanos, R.; Uyen, D.

Influence of a Paleozoic thrust-system on the Sub-Andean zone architecture (Southern Ucayali basin, Peru)

9:45–10:00; EGU2007-A-02065; TS9.1-1FR10-006

Madritsch, H.; Schmid, S.M.; Fabbri, O.

Inheritance of Paleozoic basement structures in the north-western Alpine foreland (Eastern France) – Paleogene transtensive reactivation and Neogene to recent transpressive inversion

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-07789; TS9.1-1FR2O-001

Osmundsen, P.T.; Redfield, T.F.; Hendriks, B.H.W.; David- sen, B.; Bergh, S.; Fredin, O.; Nordgulen, Ø.; Braathen, A. Tectonic topography on a glaciated margin: the role of inherited structure (solicited)

10:45–11:00; EGU2007-A-02873; TS9.1-1FR2O-002

Leighton, C

Post Caledonian reactivation of ancient structures in central southern Norway, constrained by apatite fission-track data.

11:00–11:15; EGU2007-A-06290; TS9.1-1FR2O-003

Eig, K.; Henningsen, T.; Bergh, S. G.; Olesen, O.; Osmund- sen, P. T.; Andresen, A.; Hansen, J.-A.

The Mesozoic-Cenozoic passive continental margin off North Norway: Metamorphic core complexes and extensional basin formation controlled by long-lived Late Caledonian – Devonian structural inheritance

11:15–11:30; EGU2007-A-08826; TS9.1-1FR2O-004

Wilson, R.; McCaffrey, K.; Holdsworth, R.; Japsen, P.; Chalmers, J.; Thompson, M.; Matthews, S.

The influence of basement structures on the development of oblique passive margin segments: case studies from South Greenland and the South Atlantic (solicited)

11:30–11:45; EGU2007-A-11480; TS9.1-1FR2O-005

Jacobs, J.; Thomas, R.T.

East African-Antarctic Orogen and initial Gondwana break- up: the role of structural inheritance during East Africa's passive margin formation

11:45–12:00; EGU2007-A-02848; TS9.1-1FR2O-006

Straathof, G.B.; van Hinsbergen, D.J.J.; Cunningham, D.; Langereis, C.G.; Davies, S.J.

The importance of basement structure reactivation during Mesozoic extension and Cenozoic transpression in the Gobi Altai (Mongolia)

12:00 END OF SESSION

TS10.3 Middle East Basins Evolution

Convener: Barrier, E.

Co-Convener(s): Gaetani, M., Stephenson, R.

Lecture Room 5 (I)

Chairperson: N.N.

13:30–13:45; EGU2007-A-09817; TS10.3-1FR3O-001

BARRIER, E.; VRIELYNCK, B.; BROUILLET, J.F.; BRUNET, M.F.; STEPHENSON, R.; GAETANI, M.

The MEBE Paleotectonic maps: Evolution of the Middle- East since Mesozoic

13:45–14:00; EGU2007-A-07920; TS10.3-1FR3O-002

Mosar, J.; Kangarli, T.; Bochud, M.; Brunet, M.F.; Egan, S. Evolution of the Eastern Greater Caucasus: Proxy for the South Caspian Basin?

14:00–14:15; EGU2007-A-07234; TS10.3-1FR3O-003

Sosson, M.; Mosar, J.; Oberhaensli, R.; Saintot, A.; Sébrier, M From Arabian platform to Great Caucasus, tectonic and geodynamic evolution

14:15–14:30; EGU2007-A-00718; TS10.3-1FR3O-004

Yegorova, T.; Baranova, E.; Gobarenko, V.

Main features of the lithosphere structure below the Black Sea area

14:30–14:45; EGU2007-A-01386; TS10.3-1FR3O-005
Khriachtchevskaia, O.; Stovba, S.; Stephenson, R.
 Cretaceous-Cenozoic tectonic evolution of Odessa Shelf and Azov Sea from 1-D subsidence modelling (Ukrainian Black Sea)

14:45–15:00; EGU2007-A-08080; TS10.3-1FR3O-006
Brunet, M.-F.; Shahidi, A.; Barrier, E.; Muller, C.; Saïdi, A.
 Geodynamics of the South Caspian Basin southern margin now inverted in Alborz and Kopet Dag (Northern Iran)

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-02016; TS10.3-1FR4O-001
Gaetani, M.; Angiolini, L.; Nicora, A.; Ueno, K.; Stephenson, M.; Rettori, R.; Sciunnach, D.; Trombino, L.
 Pennsylvanian to Early Triassic stratigraphy in the Alborz Mountains (Iran)

15:45–16:00; EGU2007-A-03810; TS10.3-1FR4O-002
Muttoni, G.; Mattei, M.; Zanchi, A.; Berra, F.; Balini, M.; Trombino, L.; Gaetani, M.
 Permo-Triassic paleomagnetism and paleogeography from Iran: new data from the Alborz mountains and the Nakhla area

16:00–16:15; EGU2007-A-02690; TS10.3-1FR4O-003
Wilmsen, M.; Fürsich, F.T.; Seyed-Emami, K.; Majidi-fard, M.R.; Taheri, J.
 The Cimmerian Orogeny – a foreland perspective

16:15–16:30; EGU2007-A-05057; TS10.3-1FR4O-004
Zanchi, A.; Mattei, M.; Berra, F.; Zanchetta, S.; Poli, S.; Villa, I.; Ghassemi, M.R.; Sabouri, J.; Nawab, A.
 The EoCimmerian orogeny in North Iran

16:30–16:45; EGU2007-A-01795; TS10.3-1FR4O-005
Robin, C.; Guillocheau, F.; Gorican, S.; Razin, Ph.; Mosaffa, H.
 Sedimentology and sequence stratigraphy of the southern tethyan margin : comparison of the Iran and Oman parts

16:45–17:00; EGU2007-A-07252; TS10.3-1FR4O-006
Smit, J.; Burg, J.-P.; Sokoutis, D.
 Interplay between thrusting and surface processes in the Makran accretionary wedge

17:00 END OF SESSION

TS10.4 Alpine Geology: Information and inspiration from the best studied orogen of the world

Convener: Bertotti, G.
 Co-Convener(s): Schmid, S.
 Lecture Room 5 (I)
 Chairperson: N.N.

8:30–9:00; EGU2007-A-08842; TS10.4-1FR1O-001
Bousquet, R.; Goffé, B.; Oberhänsli, R.; Koller, F.; Schmid, S.M.; Schuster, R.; Wiederkehr, M.; Handy, M.; Engi, M.
 Metamorphic structure of the Alps: contribution from studies on metasediments and consequences on the geodynamic evolution (solicited)

9:00–9:15; EGU2007-A-07684; TS10.4-1FR1O-002
Allaz, J.; Janots, E.; Engi, M.; Berger, A.; Villa, I.M.
 Understanding Tertiary metamorphic ages in the northern Central Alps

9:15–9:30; EGU2007-A-05981; TS10.4-1FR1O-003
Wiederkehr, M.; Bousquet, R.; Ziemann, M.; Schmid, S.M.; Berger, A.
 Thermal structure of Valaisan and Ultra-Helvetian sedimentary units of the northern Lepontine dome – consequences regarding the tectono-metamorphic evolution of the Alps

9:30–9:45; EGU2007-A-09394; TS10.4-1FR1O-004
Berger, A.; Bousquet, R.
 Subduction related metamorphism in the Alps: Review of isotopic ages based on petrology and their geodynamic consequences

9:45–10:00; EGU2007-A-07780; TS10.4-1FR1O-005
Bergomi, M.A.; Tunesi, A.; Shi, Y.-R.; Colombo, A.; Liu, D.-Y.
 SHRIMP II U/Pb geochronological constraints of pre-Alpine magmatism in the Lower Penninic Units of the Ossola Valley (Western Alps, Italy)

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-05878; TS10.4-1FR2O-001
Beltrando, M.; Hermann, J.; Lister, G.; Compagnoni, R.
 On the evolution of the Western Alps: pressure cycles and deformation mode switches

10:45–11:00; EGU2007-A-09267; TS10.4-1FR2O-002
Habler, G.; Thöni, M.; Cotza, G.; Grasemann, B.; Fügenschuh, B.; Sölva, H.
 Polymetamorphism and deformation in the hanging wall of a Cretaceous extrusion zone (Austroalpine Ötztal-Stubaier basement, Eastern Alps)

11:00–11:15; EGU2007-A-06620; TS10.4-1FR2O-003
Rossi, M.; Rolland, Y.; Vidal, O.
 Evidence for crustal-scale fluid infiltration during the Alpine Orogeny

11:15–11:30; EGU2007-A-02895; TS10.4-1FR2O-004
Manatschal, G.;
 Can we understand the Alps if we ignore the structure of deep rifted margins?

11:30 END OF SESSION

TS10.4 Alpine Geology: Information and inspiration from the best studied orogen of the world – Posters

Convener: Bertotti, G.
 Co-Convener(s): Schmid, S.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 13:30–15:00
 Poster Area Halls X/Y
 Chairperson: N.N.

XY0577; EGU2007-A-03487; TS10.4-1FR3P-0577
Maino, M.; Dallagiovanna, G.; Gaggero, L.; Seno, S.; Tiepolo, M.
 U/Pb dating in the post- Variscan volcanic successions of the Ligurian Alps (Italy).

XY0578; EGU2007-A-03504; TS10.4-1FR3P-0578
 Dallagiovanna, G.; Gaggero, L.; **Maino, M.;** Seno, S.; Tiepolo, M.
 From orogen collapse to margin rift: new U/Pb constrains to the post- Variscan and pre-Tethyan history in the Ligurian Alps (Italy).

XY0579; EGU2007-A-07330; TS10.4-1FR3P-0579
Vignaroli, G.; Faccenna, C.; Rossetti, F.; Rubatto, D.
 The Western Alps-Northern Apennines tectonic linkage: insights from the Voltri Massif (Ligurian Alps, Italy)

XY0580; EGU2007-A-05124; TS10.4-1FR3P-0580
Zechmeister, M.S.; Ferré, E.C.; Carrapa, B.; Caby, R.; Cosca, M.A.; Geissman, J.W.
 Geologic and seismic deformation during unroofing of the Dora Maira Massif; Western Alps, Italy: tectonic versus climatic control

XY0581; EGU2007-A-05886; TS10.4-1FR3P-0581
Beltrando, M.; Rubatto, D.; Lister, G.; Compagnoni, R.
 Was the Valaisian Ocean floored by oceanic crust? Evidence of Permian intra-plate magmatism in the Versoyen Unit (Valaisa Domain, NW Alps)

XY0582; EGU2007-A-08897; TS10.4-1FR3P-0582
Bertok, C.; d'Atri, A.; Martire, L.; Musso, A.; Piana, F.
 Preservation of paleofaults and related depositional geometry in a large-scale low-strain block within the Ligurian Briançonnais domain (French-Italian Maritime Alps).

XY0583; EGU2007-A-03867; TS10.4-1FR3P-0583
Campani, M.; Mancktelow, N.; Rolland, Y.; Seward, D.
 A preliminary 4D model of Neogene exhumation in the Central Alps

XY0584; EGU2007-A-08743; TS10.4-1FR3P-0584
Janots, E.; Engi, M.; Berger, A.; Rubatto, D.; Gregory, C.
 Heating rate in the northern Lepontine dome (Central Alps) from in-situ isotopic dating of allanite and monazite

XY0585; EGU2007-A-10322; TS10.4-1FR3P-0585
Feijth, J.; Rockenschaub, M.; Janda, C.
 From subduction to exhumation: interpretation of fold interference in the NW Tauern Window

XY0586; EGU2007-A-11151; TS10.4-1FR3P-0586
Rockenschaub, M.; Feijth, J.; Janda, C.
 Sedimentological results requiring a new tectonic framework for the NW Tauern Window

XY0587; EGU2007-A-09136; TS10.4-1FR3P-0587
Schneider, S.; Hammerschmidt, K.; Rosenberg, C. L.
 In-situ Rb-Sr dating of the SEMP mylonites, western Tauern Window, Eastern Alps

XY0588; EGU2007-A-10280; TS10.4-1FR3P-0588
Cotza, G.; Habler, G.; Grasmann, B.; Thöni, M.
 NW directed normal faulting in the hanging wall of the eo-alpine high-pressure rocks: the W termination of the Schneeberg Zug (Southern Tyrol, Italy)

XY0589; EGU2007-A-08663; TS10.4-1FR3P-0589
Székely, B.; Szafián, P.; Frisch, W.; Kuhlemann, J.; Danišák, M.; Dunkl, I.
 ATHMEA: A three-dimensional model of the Eastern Alps

XY0590; EGU2007-A-07409; TS10.4-1FR3P-0590
Haider, V.L.; Parrish, R.R.; Kloetzli, U.S.; Horstwood, M.S.; Brewer, T.S.
 The U-Pb age of one type of porphyric dykes ('Rojen dyke swarm') in Oetztalnappe – Austroalpine in the area of Zehnerkopf and Vallungsspitze (South Tyrol/ Italy)

XY0591; EGU2007-A-04357; TS10.4-1FR3P-0591
Ustaszewski, K.; Krenn, E.; Fügenschuh, B.; Schmid, S. M.; Finger, F.
 Tracing the Alpine collision zone towards east: the Sava Zone – a Late Cretaceous to Paleogene suture between Tisza and the Dinarides

XY0592; EGU2007-A-04154; TS10.4-1FR3P-0592
Buzzi, L.; Funedda, A.; Gaggero, L.; Oggiano, G.
 Sr-Nd isotope, trace and RE element geochemistry of the Ordovician magmatism in the southern Variscides

XY0593; EGU2007-A-03789; TS10.4-1FR3P-0593
Buzzi, L.; Funedda, A.; Gaggero, L.; Oggiano, G.; Tiepolo, M.
 U-Pb zircon dating (LA-ICP-MS) of the Ordovician felsic volcanism through the Variscan Units in Sardinia (Italy)

TS10.6 Active Tectonics of the Circum-Adriatic Region

Convener: Cunningham, D.
 Co-Convener(s): Vittori, E., Piccardi, L.
 Lecture Room 3
 Chairperson: N.N.

13:30–13:45; EGU2007-A-10163; TS10.6-1FR3O-001
Vrabec, M.; Stopar, B.; Sterle, O.; Weber, J.
 Active deformation at the northeastern corner of the Adria-Europe collision zone: Inferences from 1994-2006 GPS campaigns in Slovenia

13:45–14:00; EGU2007-A-06232; TS10.6-1FR3O-002
Neubauer, F.
 Neogene to Recent Motion of Adria, formation of the Friuli orocline, and deformation of Eastern Alps and northeastern Dinarides

14:00–14:15; EGU2007-A-05517; TS10.6-1FR3O-003
Menichetti, M.
 Seismotectonics of the Adriatic region between the Northern Apennines and Dinarides

14:15–14:30; EGU2007-A-02740; TS10.6-1FR3O-004
Livio, F.; Sileo, G.; Michetti, A. M.; Giardina, F.; Carcano, C.; Rogledi, S.; Mueller, K.
 Pleistocene compressive tectonics in the Central Southern Alps (Italy): Rates of folding determined from growth strata.

14:30–14:45; EGU2007-A-07521; TS10.6-1FR3O-005
Decker, K.; Aust, S.; Ballauri, A.; Clebsch, C.
 Kinematics of active thrusting at the Apulian-Ionian plate boundary in Southern Albania

14:45–15:00; EGU2007-A-09228; TS10.6-1FR3O-006
Piccardi, L.; Toth, L.; Vittori, E.; Aliaj, S.; Cello, G.; Cunningham, W.D.; Drakatos, G.; Gosar, A.; Herak, D.; Herak, M.; Sebel, S.; Sulstarova, E.; Windhoffer, G.; Glavatic, B.; Kiratzi, A.; Ganas, A.; Omerbashich, M.; Pavlides, S.; Petro, L.; Sijaric, G.; Tomljenovic, B.; Tondi, E.
 A first attempt at compiling a map of active faults of the Adria region

15:00 END OF SESSION

EGU Short Courses

SC1 High-Resolution Inductively Coupled Plasma Mass Spectrometry (ICP-MS) presented by Isaac B. Brenner (Israel) and Meike Hamester (Germany) (co-listed in IG & GI)

Convener: De Groot, P.
 Lecture Room 7
 Chairperson: N.N.

EGU2007-A-11679; SC1-1FR1O-001
Brenner, I.B.; Hamester, M.
 High-Resolution Inductively Coupled Plasma Mass Spectrometry (ICP-MS)

TEAM INDEX

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The Topo-Iberia Working Group is composed of more than 100 PhD scientists from the following institutions: Institute of Earth Sciences 'J. Almera'- CSIC, Barcelona, Universities of Granada, Oviedo, Barcelona, Complutense of Madrid, Autonomous of Barcelona, Cadix and Jaen, the Spanish Geological and Mining Institute and the Royal Navy Observatory of San Fernando

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Aspera-3 Team

Aspera-3 Team

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