<table>
<thead>
<tr>
<th>basement (blue level)</th>
<th>seating</th>
<th>poster areas</th>
<th>lecture rooms</th>
</tr>
</thead>
<tbody>
<tr>
<td>halls x/y, foyer d, foyer i/k</td>
<td>halls x/y with coffee points</td>
<td>sm1 &amp; sm2</td>
<td>d, 1 (g), 2, 3, 4 (h), 5 (i), 6 (k), 7, 8, 9 (p)</td>
</tr>
<tr>
<td>internet terminals &amp; lan (plug &amp; play) hall y</td>
<td>splinter meeting rooms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>refreshments</td>
<td>press centre</td>
<td></td>
<td></td>
</tr>
<tr>
<td>café vienna – hall x</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>snack bar – foyer d</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>water fountains</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ground floor (yellow level)</th>
<th>seating</th>
<th>poster areas</th>
<th>lecture rooms</th>
</tr>
</thead>
<tbody>
<tr>
<td>foyer e</td>
<td>sm3 &amp; sm4</td>
<td></td>
<td>10 (e1), 11, 12 (e2), 13 (f1), 14, 15 (f2)</td>
</tr>
<tr>
<td>hall z (from tuesday)</td>
<td>rehearsal</td>
<td></td>
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</tr>
<tr>
<td>lan (plug &amp; play) room next to the post office (signposted)</td>
<td>information desks</td>
<td></td>
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</tr>
<tr>
<td>internet terminals</td>
<td>egu info desk, hotel reservation, airport service, wining &amp; dining, eurest</td>
<td></td>
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</tr>
<tr>
<td>post office</td>
<td>exhibition</td>
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<tr>
<td>post office, public telephones and fax</td>
<td>commercial and research exhibition</td>
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<tr>
<td>refreshments</td>
<td>message boards &amp; job posting</td>
<td></td>
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<tr>
<td>café ritazza – entrance bistro – foyer e</td>
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<tr>
<td>water fountains</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>first floor (green level)</th>
<th>refreshments</th>
<th>poster area</th>
<th>lecture rooms</th>
</tr>
</thead>
<tbody>
<tr>
<td>coffee bar – gallery self-service restaurant water fountains</td>
<td>foyer bg</td>
<td></td>
<td>16 (l), 17 (m), 18, 19, 20 (n), 21 (o), 22, 23, 24, 25, 26, 27</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>second floor (red level)</th>
<th>refreshments</th>
<th>poster area</th>
<th>lecture rooms</th>
</tr>
</thead>
<tbody>
<tr>
<td>snack bar – foyer a water fountains</td>
<td>hall a with coffee point</td>
<td>sm5 &amp; sm6</td>
<td>28 (b), 29, 30 (c), 31, 32, 33, 34</td>
</tr>
<tr>
<td>internet terminals</td>
<td>splinter meeting rooms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>hall y</td>
<td>exhibition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>refreshments</td>
<td>commercial exhibition</td>
<td></td>
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<tr>
<td>water fountains</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>third floor (purple level)</th>
<th>egu council</th>
<th>meeting rooms</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>35, 36, 37</td>
<td></td>
</tr>
</tbody>
</table>
**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 wheelchairs.

**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 Ritazza
  - 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, Paleomagnetism, 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).

<table>
<thead>
<tr>
<th>Time</th>
<th>Block</th>
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<tr>
<td>08:30–10:00</td>
<td>Oral &amp; Poster Block I</td>
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<tr>
<td>10:00–10:30</td>
<td>Break I</td>
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<tr>
<td>10:30–12:00</td>
<td>Oral &amp; Poster Block II</td>
</tr>
<tr>
<td>12:00–13:30</td>
<td>Lunch Break</td>
</tr>
<tr>
<td>12:00–13:30</td>
<td>Lunch Block I (EBM, SPM, UM only)</td>
</tr>
<tr>
<td>12:15–13:15</td>
<td>Lunch Block 2 (DBM only)</td>
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<tr>
<td>13:30–15:00</td>
<td>Oral &amp; Poster Block III</td>
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<td>15:00–15:30</td>
<td>Break II</td>
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<tr>
<td>15:30–17:00</td>
<td>Oral &amp; Poster Block IV</td>
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<tr>
<td>17:00–17:30</td>
<td>Break III</td>
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<tr>
<td>17:30–19:00</td>
<td>Poster viewing only</td>
</tr>
<tr>
<td>17:30–19:00</td>
<td>Oral &amp; Poster Block V</td>
</tr>
<tr>
<td>19:00–20:00</td>
<td>Block VI (TM, SPM only)</td>
</tr>
</tbody>
</table>

**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.
General Information

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

Publications 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

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

Monday, 16 April 2007

Fridjof 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 (Fridjof 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 Neél 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 Fry Richardson Medal Lecture
Schumann, U.
From little whirls 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.; Tigue, 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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Germany
www.schumann-analytics.com
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
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

**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

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**Editorial Board Meetings**

**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

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**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
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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., hp plag@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: Rümpker, 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.hanuise@cnrs-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  SPM10 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: Rümpker, 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

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**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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**Forums**

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

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- simulation of past climate and model-based interpretation of palaeo climate data for a better understanding of present and future climate variability and climate change;

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General Information

JOINT IODP-ICDP
Town Hall Meeting

Sampling and Observation at Depth?
Let’s Drill!

Tuesday April 17, Room 13 (F1)
19:00 - 20:00

The International Continental Scientific Drilling Program (ICDP) and the Integrated Ocean Drilling Program (IODP) support projects with drilling needs in Europe and globally.

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http://www.emsc-csem.org
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Exhibitions

Monday–Thursday, 16–19 April 2007, 09:00–18:00
Friday, 20 April 2007, 09:00–13:00

Please, visit the General Assembly Exhibition in the Main Entrance Hall. Here you will find the exhibits of the following companies and societies:

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Fax: +49-228-614-886
ecotech@ecotech-bonn.de

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by H. Igel
Department of Earth and Environmental Sciences, Ludwig-Maximilians-University Munich (Germany)

Date: Wednesday, 18 April 2007, 19:00-20:00
Room 10(E1), Ground Floor Yellow Level (OE)

Please meet us at 18:00,
refreshments and drinks will be served on site.
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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
First Floor – Green Level (O1)

Meeting Programme Info Terminal
Self-Service Restaurant
Drinking Fountain
Seating Area
Escalator/Stairs
Toilet/Restroom
Second Floor – Red Level (O2)

- Hall A
- Poster Area
- SM5 SM6
- Meeting Programme Info Terminal
- Coffee Bar / Snack Bar / Bistro
- Drinking Fountain
- Seating Area
- Escalator/Stairs
- Elevator
- Toilet/Restroom
Third Floor – Purple Level (O3)
Poster Area Halls X/Y
Posters XY0001 – XY0587

587 Posters

From Congress Centre Basement (Blue Level)

To XY0588 – XY1003
Poster Area Halls X/Y
Posters XY0588 – XY1003

416 Posters

Internet Terminals
and LAN Plug & Play

To Hall Z

To XY0001 – XY0587
Poster Area Hall A
Second Floor – Red Level (O2)
556 Posters
Poster Area Foyer BG
First Floor – Green Level (O1)

98 Posters

BG0001 – BG0048
BG0049 – BG0073
BG0074 – BG0098 are located in Room 25
Exhibition / Entrance Hall
Ground Floor – Yellow Level (OE)

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Aims and Scope

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- The editors encourage submissions that apply nonlinear analysis methods to models and data.

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• The evolution of natural systems towards extreme conditions and the detection of precursors of such evolution.
• The monitoring of rare events and the integration of measures for the understanding of spatial and temporal characteristics of rare natural phenomena.
• The development of new techniques for the reduction of damage to human settlements and the impact of rare events on man-made structures.
• The impact on the natural environment of interventions to reduce damage.

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Journal of the European Geosciences Union

Steinschlagschutz
Lawinenschutz
Fels- und Hangsicherung

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- Wirklichkeitsnahe Systemprüfungen von Steinschlagschutzsystemen
- Wurfversuche mit Baumstämmen in Steinschlagnetze
- Zug- und Durchstanzversuche an Netzen und Gittern
- Umfangreiche Tests an Einzelkomponenten

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Österreich
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Fax: +43 (0)6244-20325-11
E-Mail: office@trumerschutzbauten.com
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Aims and Scope

- Publications on all aspects of ocean science.
- Experimental, theoretical and laboratory.

**Ocean Science covers the following fields:**
- Ocean Physics (i.e. ocean structure, circulation, tides and internal waves)
- Ocean Chemistry
- Biological Oceanography
- Air-Sea Interactions
- Ocean Models, physical, chemical, biological and biochemical
- Coastal and shelf edge processes
- Paleoceanography

To view, submit or comment on papers visit:

[www.ocean-science.net](http://www.ocean-science.net)
Aims and Scope

- Fundamental and applied research on the interactions between water, earth, ecosystems and man.
- Hydrology placed within a multi-disciplinary Earth System Science context.
- Holistic understanding towards sustainable management of water resources, water quality and water-related natural hazards.

To view, submit or comment on papers visit:

www.hydrology-and-earth-system-sciences.net
Visit the EGU Booth and learn more about:

• Open Access Journals
• Interactive Open Access Journals
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Booth #1, Ground Floor/Yellow Level

Forthcoming EGU General Assembly

We would like to inform you that our next General Assembly will take place from

13 – 18 April 2008 in Vienna, Austria.

Please visit our web page for further information and deadlines:

www.egu.eu

We are looking forward to seeing you in Vienna again!
# 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

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<td>US1</td>
<td>Union Award Presentations and Medal Lectures</td>
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<td>US2</td>
<td>The EGU Great Debates on Geosciences (abstract submission by invitation only)</td>
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<td>Carbon Capture and Sequestration – The issues (abstract submission by invitation only)</td>
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<td>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)</td>
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<td>Prospective views for European Cooperation in Geosciences &amp; Environmental Sciences: Contributions in a global context</td>
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<td>TOPO-EUROPE - 4-D Topography Evolution in Europe: Uplift, Subsidence and Sea Level Change (abstract submission by invitation only)</td>
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<td>The International Polar Year 2007-2008 (abstract submission by invitation only)</td>
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<td>Earthquake prediction: what can be done with the best science available? (co-organized by US) (co-listed in NH &amp; SM)</td>
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<td>NP1.01/US9</td>
<td>Frontiers in Nonlinear Processes in Geosciences (co-organized by US) (including Lewis Fry Richardson Medal Lecture)</td>
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<td>Earth and Space Science Informatics (ESSI): Standardization and Interoperability of Web Services across the Geosciences</td>
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<td>The EC 7th RTD Framework Programme: addressing the challenges of global change</td>
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<td>Strategies to community building in hydrology (invited papers only) (co-listed in US)</td>
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# 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

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## 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

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<td>East African geodynamics, climate and evolution (co-organized with GD) (co-listed in TS &amp; SSP)</td>
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O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)
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<td>Land-atmosphere coupling in past, present and future climate (co-listed in AS, BG &amp; HS) / Subsurface temperature signals of climate change, processes involved, and importance to climate modeling</td>
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<td>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)</td>
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<td>New proxies in sedimentary geochemistry (co-organized by BG, co-listed in IG &amp; CL)</td>
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<td>Anthropogenic impacts on transitional environments (co-listed in CL &amp; ERE)</td>
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<td>Simple dynamical models from data: a tool for parametrizations and diagnostics (co-listed in CL)</td>
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# PROGRAMME GROUP SCHEDULE

**CR – CRYOSPHERIC SCIENCES**

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

TB: 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

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<td>Cold regions geomorphology: linking high- and mid-latitudes (co-listed in CL &amp; CR)</td>
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<td>Open session on cryospheric sciences (including Louis Agassiz Medal Lecture)</td>
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<td>Permafrost degradation: Geological, geophysical, biological, engineering and health implications (co-listed in NH)</td>
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<td>Climate change impacts on glaciers, permafrost and related hazards (co-listed in NH &amp; CL)</td>
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<td>Snow dynamics and snow-atmosphere exchange over Greenland and Antarctica (co-listed in AS &amp; CL)</td>
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<td>Numerical modelling and satellite remote sensing – exploiting synergies to gain improved insights</td>
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<td>CR130</td>
<td>Glaciology, climate, and oceanography of the Antarctic Peninsula and the sub-Antarctic (co-listed in CL &amp; HS)</td>
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<td>Antarctica and the Global Climate System (co-listed in AS, CR &amp; OS)</td>
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<td>Sea ice edge processes: atmosphere, ocean, ice interactions</td>
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<td>Subglacial landforms: observations and modelling (co-organised in GM)</td>
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<td>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 &amp; NH)</td>
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<td>Mineral Sciences Initiative (EuroMinSci) open session (including the EMU Research Excellence Medal Lecture) (co-organized by BG) (co-listed in CR, NP, SSP)</td>
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<td>BG5.09/</td>
<td>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 &amp; SSP) (including Outstanding Y</td>
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# 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

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<td>Renewable resources in general</td>
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<td>The role of geosciences towards the resource 'architecture'</td>
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<td>Geothermal energy and brine transport</td>
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<td>Climatic Extremes and their Impacts (co-listed in HS &amp; ERE) / Mid-latitude cyclones: processes, variability, changes and impacts</td>
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## 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

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<td>Understanding physical and chemical signals from active volcanoes</td>
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<td>New monitoring techniques applied to active volcanoes</td>
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<td>Scale, Scaling, and nonlinearity in Solid Earth (co-listed in GMPV, NH, SSS &amp; TS)</td>
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## 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

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<td>The impact of technique errors on reference frame accuracy and stability</td>
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<td>What constraints do earth rotation, shape, and gravity measurements place on the dynamical processes of the solid earth? (co-organized by GD)</td>
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### 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

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## 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

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<td>Aeolian dust as a player and recorder of environmental change (co-listed in GM &amp; SSP, co-sponsored by IAS)</td>
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<td>Objective and process-based catchment classification as a tool for predictions in ungauged basins</td>
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<td>Connectivity: conditions for the transfer of water, sediment and organisms on hillslopes and in channelways (co-listed in GM)</td>
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<td>HS49</td>
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<td>Hydrological, chemical and biological processes in rivers and riparian zones (co-listed in BG &amp; GM)</td>
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## 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

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<td>Remote sensing and geophysical techniques for investigating unstable slopes (co-listed in GM &amp; GI)</td>
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<td>High-Resolution Inductively Coupled Plasma Mass Spectrometry (ICP-MS) presented by Isaac B. Brenner (Israel) and Meike Hamester (Germany) (co-listed in IG &amp; GI)</td>
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## 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

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<td>Strategies to community building in hydrology (invited papers only) (co-listed in US)</td>
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<td>Water storage, level and discharge from remote sensing and geodesy (co-listed in G &amp; GI)</td>
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## 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**

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## 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

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<td>Time variations in the geomagnetic field (co-listed in GD)</td>
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<td>One hundred years after Brunhes: geomagnetic reversal and palaeointensity behaviour (co-listed in GD and NP)</td>
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<td>Integrated (magneto)stratigraphy and chronology of the Triassic; implications for the GPTS and paleoenvironmental reconstructions</td>
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<td>Novel techniques for measuring rainfall micro- and macro-structure (co-listed in AS &amp; NH)</td>
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## 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

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<td>African Monsoon Multidisciplinary Analysis (AMMA) (co-listed in OS, BG, CL &amp; SSS)</td>
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<td>Atmosphere, Ocean and Meteorological Instruments (co-listed in AS, CL, OS, PS &amp; ST)</td>
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<td>Seafloor Expression of Tectonic &amp; Geomorphic Processes (co-listed n OS, SSP &amp; TS)</td>
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<td>Glaciology, climate, and oceanography of the Antarctic Peninsula and the sub-Antarctic (co-listed in CL &amp; HS)</td>
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<td>Groundshaking scenarios, ground motion models and site effects (Conveners Fabrice Cotton and Stefano Parolai)</td>
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O: Oral Presentation (Lecture Room) / P: Poster Presentation (Poster Hall)  
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## 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

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<td>Mineralogical and geochemical records of weathering and pedoplasmation: from spatial to temporal scales (co-listed in GMPV)</td>
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**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

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<td>Theory and simulations of solar system plasmas (co-organized by PS)</td>
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<td>Joint Session of the MLT and the CAWSES ST15 program (co-organized</td>
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| GI5      | Space Instrumentation (co-listed in PS, ST, AS, G & OS)              | 1  |    |    | 0 (2) |    |    |
|          |                                                                      | 2  |    |    | 0 (2) |    |    |
|          |                                                                      | 3  |    |    |    |    |    |
|          |                                                                      | 4  |    |    |    |    |    |
|          |                                                                      | 5  |    |    |    |    |    |

| GI6/     | Planetary Imaging Systems - Design, PS1.3 Implementation, and Results (co-organized by PS, | 1  |    |    |    |    |    |
|          | co-listed in ST)                                                     | 2  |    |    | P (XY) |    |    |
|          |                                                                      | 3  |    |    |    |    |    |
|          |                                                                      | 4  |    |    | 0 (2) |    |    |
|          |                                                                      | 5  |    |    | 0 (2) |    |    |

| GI2      | Atmosphere, Ocean and Meteorological Instruments GI2 (co-listed in AS, CL, OS, PS & ST) | 1  | 0 (2) |    |    |    |    |
|          |                                                                      | 2  |    |    | 0 (2) |    |    |
|          |                                                                      | 3  |    |    |    |    |    |
|          |                                                                      | 4  |    |    |    |    |    |
|          |                                                                      | 5  |    |    | P (XY) |    |    |

| GI10     | Informatics: distributed information systems - technology and applications (co-listed in AS, CL, G, | 1  |    |    |    | 0 (29) |    |
|          | CR, GD, GM, GMPV, HS, MPRG, OS, PS, ST, SM, TS, SSP, SSS & NH)       | 2  |    |    |    | 0 (29) |    |
|          |                                                                      | 3  |    |    |    | 0 (29) |    |
|          |                                                                      | 4  |    |    |    | P (XY) |    |
|          |                                                                      | 5  |    |    |    |    |    |

| PS5.3    | Connections in the Solar System - Space Weather                      | 1  |    |    |    |    |    |
|          |                                                                      | 2  |    |    |    |    |    |
|          |                                                                      | 3  |    |    |    |    |    |
|          |                                                                      | 4  |    |    | P (XY) |    |    |
|          |                                                                      | 5  |    |    | 0 (8) |    |    |
## PROGRAMME GROUP SCHEDULE

### SSP – STRATIGRAPHY, SEDIMENTOLOGY AND PALAEONTOLOGY

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

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<td>SSP1</td>
<td>Open session on Sedimentology, Stratigraphy and Palaeontology - Posters only (co-listed in CL)</td>
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<td>SSP2</td>
<td>Sedimentary cyclicity in basinal deposits: possible mechanisms (co-sponsored by IAS)</td>
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<td>Dynamics of Sedimentary Basins - Evolution, Salt- and Fluid Dynamic (co-listed in GD &amp; TS)</td>
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<td>3-d modelling of sedimentary Systems</td>
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<td>Microbial Carbonates (co-sponsored by IAS and co-organized by BG)</td>
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<td>Submarine Mass Movements and Their Consequences (co-listed in NH)</td>
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<td>Cenozoic basin evolution and uplift of the Paratethys basin system (co-listed in TS)</td>
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<td>Closing the gap between geological data and numerical modelling / Oxygen-18 in climate models, observations and palaeo-data (co-organized by CL)</td>
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<td>Ordovician glaciations (co-listed in CR &amp; CL)</td>
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<td>Modelling subaqueous gravity flow processes and their deposits</td>
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<td>Building A Global Geosciences Cyberinfrastructure (co-organized by GI)</td>
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<td>New proxies in sedimentary geochemistry (co-organized by BG, co-listed in IG &amp; CL)</td>
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<td>Palaeoceanographic and palaeoclimatic change during the Palaeozoic, Mesozoic and Cenozoic: sedimentological, palaeontological, geochemical and modelling perspectives (co-organized by CL; co-sponsored by IAS)</td>
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<td>Environmental Micropaleontology: microfossils as proxies of recent and past environmental change (co-organized by BG)</td>
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<td>Climate events recorded in speleothems (co-organized by CL) (co-listed in IG)</td>
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<td>Environmental perturbations during the Palaeozoic-Mesozoic interval: Organic geochemical and palynological proxies (co-organized by BG &amp; CL)</td>
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<td>Reconstructing the Cretaceous World: Integration of data from the Boreal, Tethys, deep sea and the continents (co-listed in CL)</td>
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<td>The Messinian desiccation of the Mediterranean Sea, its causes, phenomena and consequences (co-listed in CL &amp; TS)</td>
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<td>Processes of rifting, sediment transport, fluid flow and biogenic activity: EUROMARGINS open session (co-organized by SSP) (co-listed in BG &amp; CL)</td>
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<td>Seafloor Expression of Tectonic &amp; Geomorphic Processes (co-listed n OS, SSP &amp; TS)</td>
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<td>Calibration and validation of marine and terrestrial proxies: from empiricism towards a mechanistic understanding (co-organized by CL) (co-listed in SSP)</td>
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<td>Cenozoic basin evolution and uplift of the Paratethys basin system (co-listed in TS)</td>
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<td>Paleomagnetism in orogenic systems (co-listed in TS)</td>
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Online + Open Access Publishing

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The EGU is a signatory of the Berlin Open Access Declaration of 2003, the largest scientific association in Europe for the geosciences and planetary and space sciences encompassing more than 60,000 scientists worldwide, and a publisher of scientific journals for more than 20 years. This guarantees the most up-to-date publications and the highest standards in editorial competence and quality of production.

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MEETING SCHEDULE

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The International Polar Year 2007-2008 (abstract submission by invitation only)
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Prospective views for European Cooperation in Geosciences & Environmental Sciences: Contributions in a global context
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Early Earth Evolution

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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)
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ES: Educational Symposia

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Source apportionment of particulate matter
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The Tropospheric Ice Phase
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Antarctic cryosphere and Southern Ocean climate evolution (Cenozoic-Holocene)
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Generality of Climate Models and their Components (co-listed in AS & NP)
Lecture Room 14 13:30–15:00 p. 267
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Palaeoceanographic and palaeoclimatic change during the Palaeozoic, Mesozoic and Cenozoic: sedimentological, palaeoontological, geochemical and modelling perspectives (co-organized by CL; co-sponsored by IAS) – Posters
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#### WEDNESDAY

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<td>08:30–12:00</td>
<td><strong>ES: Educational Symposia</strong></td>
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<td>08:30–12:00</td>
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<td>08:30–17:00</td>
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<td>17:30–19:15</td>
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<td>13:30–18:00</td>
<td><strong>Megacity Impacts on Regional and Global Scales</strong></td>
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<td>13:30–17:00</td>
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<td><strong>Joint Session of the MLT and the CAWSES program (co-organized by ST)</strong></td>
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<td>13:30–17:00</td>
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<tr>
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<tr>
<td>10:30–12:00</td>
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<td>Lecture Room 19</td>
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<tr>
<td>13:30–15:00</td>
<td><strong>Climate variability and the carbon cycle (past, present and future): The EuroCLIMATE Programme</strong></td>
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<td>13:30–15:15</td>
<td><strong>Coupling biogeochemistry and ecology to fluid dynamics in aquatic ecosystems (co-organized by NP) (co-listed in OS)</strong></td>
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<td><strong>Biodiversity science in Europe: new tools and strategies (EuroDIVERSITY) (co-listed in ERE)</strong></td>
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Soil remediation processes: New insights into the role of mineral surfaces and bioaccessibility of residues (co-listed in BG) (including Philippe Duchafour Medal Lecture)
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The 3D heliosphere at solar minimum – Posters
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Open session on the Sun and heliosphere – Posters
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Oscillations of the solar interior and atmosphere – Posters
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The time varying Sun
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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) – Posters
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Epeiric shelves - geochemistry, sedimentology, palaeohydrology (co-sponsored by IAS) – Posters
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The Messinian desiccation of the Mediterranean Sea, its causes, phenomena and consequences (co-listed in CL & TS) – Posters
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Submarine Mass Movements and Their Consequences (co-listed in NH)
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Cenozoic basin evolution and uplift of the Paratethys basin system (co-listed in TS)
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Sedimentary cyclicity in basinal deposits: possible mechanisms (co-sponsored by IAS) – Posters
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Submarine Mass Movements and Their Consequences (co-listed in NH) – Posters
Hall A 17:30–19:00 p. 448

C.F. Gauss Lecture of the Deutsche Geophysikalische Gesellschaft (DGG)
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Earth and Space Science Informatics (ESSI): Standardization and Interoperability of Web Services across the Geosciences
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The EC 7th RTD Framework Programme: addressing the challenges of global change
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ES: Educational Symposia

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

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Reactive Halogen Compounds in the Lower and the Free Troposphere
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Joint Session of the MLT and the CAWSES program (co-organized by ST) – Posters
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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
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Environmental Micropaleontology: microfossils as proxies of recent and past environmental change (co-listed in CL)
Lecture Room 19 15:30–17:00 p. 476
Calibration and validation of marine and terrestrial proxies: from empiricism towards a mechanistic understanding (co-organized by CL) (co-listed in SSP) – Posters
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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
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CL: Climate: Past, Present, Future

Climate and ocean dynamics from high-resolution marine archives (co-listed in OS)
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**Past atmospheric circulation**
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**Observing climate change and variability from space: achievements and challenges – Posters**
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**Aeolian dust as a player and recorder of environmental change (co-listed in GM & SSP, co-sponsored by IAS)**
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**Monsoon climates - variability, changes and paleoperspectives**
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**ERE: Energy, Resources and the Environment**

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**GMPV: Geochemistry, Mineralogy, Petrology & Volcanology**

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**Volcanic and non-volcanic Earth degassing – Posters**
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**New monitoring techniques applied to active volcanoes – Posters**
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**Volcanic and non-volcanic Earth degassing**
Lecture Room 21 (O) 13:30–17:00 p. 494

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**G: Geodesy**

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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)**
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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
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Monitoring of the troposphere and ionosphere by space geodetic techniques – Posters
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GD: Geodynamics

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Dynamics and Thermal Structure of Subduction Zones – Posters
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Potential Fields in Geodynamics and Geostatics – Posters
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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
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Ice-Mass Fluctuations and the Dynamical Responses of the Solid Earth (co-organized by G) – Posters
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GM: Geomorphology

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Monitoring and modelling in periglacial and glacial geomorphology (co-listed in CR & CL)
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Quantifying and modelling human and climate controlled sediment dynamics (co-listed in CL) – Posters
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HS: Hydrological Sciences

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Hydrogeophysics in subsurface hydrology – Posters
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Instrumentation for Stable and Radiogenic Isotopes (co-organized by GI) – Posters
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MPRG: Magnetism, Palaeomagnetism, Rock Physics & Geomaterials

Magnetic field observation: where have we been and where are we going? – Posters
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Time variations in the geomagnetic field (co-listed in GD) – Posters
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Magnetic field observation: where have we been and where are we going?
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Time variations in the geomagnetic field (co-listed in GD)
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NH: Natural Hazards

Propagation of uncertainty in advanced meteorological forecast systems (co-listed in AS)
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Integrated Natural Hazard Protection (floods and mass movement): Structural and nonstructural measures – state-of-the-art (co-listed in HS)
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Landslides and erosion monitoring and characterization using high resolution DEM, LIDAR and other DEM techniques
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Deformation processes and accompanying mechanical and electromagnetic phenomena, for rocks and other materials, from the laboratory to the geophysical scale
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Propagation of uncertainty in advanced meteorological forecast systems (co-listed in AS) – Posters
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Geo-Databases and Information Systems for Natural Hazards and Risk Assessment
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Operational tools for flash-flood forecasting (co-listed in HS)
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The role of vegetation in slope stability
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Electric, magnetic and electromagnetic phenomena related to earthquakes (co-listed in SM)
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Coastal geohazards – Posters
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The role of vegetation in slope stability – Posters
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Vulnerability assessments and spatial/temporal variability of natural hazards risk – Posters
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Geo-Databases and Information Systems for Natural Hazards and Risk Assessment – Posters
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NP: Nonlinear Processes in Geosciences

Quantifying predictability
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Data assimilation in the presence of nonlinearities (co-listed in AS)
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Nonlinear geophysical fluid dynamics – Posters
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Nonlinear cryospheric dynamics (co-organized by NP and CR) – Posters
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Astrophysical Turbulence and Shocks, Plasmas and High Mach Number Flows (co-listed in PS) – Posters
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Turbulence and dispersion in particle-laden geophysical flows: theory and models (co-listed in HS & SSP) – Posters
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Frontiers in Nonlinear Processes in Geosciences (co-organized by US) (including Lewis Fry Richardson Medal Lecture)
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Ocean Tracers and Anthropogenic CO2 (co-listed in BG & CL)
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Operational Oceanography: Skill Assessment and Error Analysis (co-listed GI, NP)
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Model development for large- and small-scale processes in the ocean (co-listed NP) – Posters
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Model development for large- and small-scale processes in the ocean (co-listed NP)
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Outer planets and satellites (including David Bates Medal Lecture)
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Extrasolar Planets and Planet Formation Session
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Planetary, Solar and Heliospheric Radio Emissions
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Extrasolar Planets and Planet Formation Session – Posters
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Research and Development in Nuclear Explosion Monitoring (co-listed in AS) – Posters
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Physics and Mechanics of Earthquakes and Faulting (co-organized by MPRG & TS) – Posters
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SSS: Soil System Sciences

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The mechanisms, especially diffusion, by which soil organic matter influences chemical fate: Chromium as a case study (co-listed in BG)
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Hydropedology: A synergistic tool to shape EU guidelines for water and soil (co-listed in HS)
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Soil genesis, soil quality, biological indicators and soil functions, including education (co-listed in BG) – Posters
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Organic soils, processes, mechanisms and utilization (co-listed in BG) – Posters
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The mechanisms, especially diffusion, by which soil organic matter influences chemical fate: Chromium as a case study (co-listed in BG) – Posters
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Hydropedology: A synergistic tool to shape EU guidelines for water and soil (co-listed in HS) – Posters
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ST: Solar-Terrestrial Sciences
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Coupling between regions and scales: the future is multipoint and multi-instrument
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Open session on the ionosphere and thermosphere including connections to regions above and below — Posters
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The time varying Sun – Posters
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Modelling and measurements of ionospheric parameters influencing radio systems — Posters
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Solar, heliospheric and atmospheric coupling with near-Earth space — Posters
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Oscillations of the solar interior and atmosphere
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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)
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New proxies in sedimentary geochemistry (co-organized by BG, co-listed in IG & CL)
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New proxies in sedimentary geochemistry (co-organized by BG, co-listed in IG & CL) – Posters
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Microbial Carbonates (co-sponsored by IAS and co-organized by BG)
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Dynamics of Sedimentary Basins - Evolution, Salt- and Fluid Dynamic (co-listed in GD & TS) — Posters
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Environmental perturbations during the Palaeozoic-Mesozoic interval: Organic geochemical and palynological proxies (co-organized by BG & CL) — Posters
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Paleo-environmental indicators in carbonate systems (co-sponsored by IAS)
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Reconstructing the Cretaceous World: Integration of data from the Boreal, Tethys, deep sea and the continents (co-listed in CL) — Posters
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TS: Tectonics and Structural Geology
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Physical and Biogeochemical feedbacks in the Climate System (co-listed in BG) – Posters
Halls X/Y 10:30–12:00 p. 583

Assessment of climate events in lake sediments – Posters
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Applied Quaternary Geochronology (co-listed in GM) / High-resolution radiocarbon chronologies - methods and applications – Posters
Halls X/Y 13:30–17:00 p. 580

Physical and Biogeochemical feedbacks in the Climate System (co-listed in BG)
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Assessment of climate events in lake sediments – Posters
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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) – Posters
Lecture Room 13 (F1) 15:30–17:00 p. 586

CR: Cryospheric Sciences

Modelling ice sheets and glaciers
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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
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Aggregates – the most widely used geological material
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GMPV: Geochemistry, Mineralogy, Petrology & Volcanology

Precipitation and Dissolution of Carbonates
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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
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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
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Behavior of substance at extreme conditions in nature and laboratory
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Metamorphic and magmatic consequences of ultra-deep subduction
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CO2 Geological Sequestration: bio-mechano-geochemical processes from the pore-scale to the reservoir-scale – Posters
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G: Geodesy

What constraints do earth rotation, shape, and gravity measurements place on the dynamical processes of the solid earth? (co-organized by GD)
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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)
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Space Instrumentation (co-listed in PS, ST, AS, G & OS) – Posters
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Planetary Imaging Systems - Design, Implementation, and Results (co-organized by PS, co-listed in ST) – Posters
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Planetary Landers and Instrumentation (co-organized by PS) – Posters
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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
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HS: Hydrological Sciences

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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
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Hydrological extremes: controls, spatial & temporal variability and regional patterns – Posters
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Modelling and observation of hydrological and biological processes in West Asia (co-listed in BG)
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MPRG: Magnetism, Palaeomagnetism, Rock Physics & Geomaterials

Open session in rock magnetism and palaeomagnetism
Lecture Room 34 08:30–15:00 p. 613

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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
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Halls X/Y 13:30–15:00 p. 616

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Deformation processes and accompanying mechanical and electromagnetic phenomena, for rocks and other materials, from the laboratory to the geophysical scale – Posters
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Vulnerability assessments and spatial/temporal variability of natural hazards risk
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Tree-ring reconstructions in natural hazards research
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Nonlinear geophysical fluid dynamics
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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)
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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)
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PS: Planetary and Solar System Sciences

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Satellites and rings – Posters
Halls X/Y 08:30–12:00 p. 627

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Atmospheric and water loss from early Mars and its implication for the origin of life
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Earthquake Dynamics: New insights in the rupture process and seismic radiation through theory, modeling and observations
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Earthquake ruptures, paleoseismology and seismic hazard models
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Earthquake Dynamics: New insights in the rupture process and seismic radiation through theory, modeling and observations – Posters
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Earthquake ruptures, paleoseismology and seismic hazard models – Posters
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Groundshaking scenarios, ground motion models and site effects (Conveners Fabrice Cotton and Stefano Parolai) – Posters
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Organic soils, processes, mechanisms and utilization (co-listed in BG)
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Ants in the Soil System. A hydrological, chemical and biological approach (co-listed in BG)
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Ants in the Soil System. A hydrological, chemical and biological approach (co-listed in BG) – Posters
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ST: Solar-Terrestrial Sciences

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Oscillations of the solar interior and atmosphere
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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
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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)
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TS: Tectonics and Structural Geology

Failed vs. successful rifts: mechanisms for rift evolution – Posters
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Processes of rifting, sediment transport, fluid flow and biogenic activity: EUROMARGINS open session (co-organized by SSP) (co-listed in BG & CL) – Posters
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Tectonics and magmatism: Interactions from the grain-to the orogen-scale – Posters
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Tectonics and magmatism during continental rifting and break-up – Posters
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The influence of pre-existing structures upon the development and evolution of geological architectures
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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
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Alpine Geology: Information and inspiration from the best studied orogen of the world – Posters
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Active Tectonics of the Circum-Adriatic Region
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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
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At its registration each abstract has received its abstract identification number of the type:

   EGU2007-A-00000

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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.:

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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:  Days:  Time Blocks:
O = Oral  MO = Monday  1 = 08:30–10:00
P = Poster  TU = Tuesday  2 = 10:30–12:00
WE = Wednesday  3 = 13:30–15:00
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                           6 = 19:00–20:00

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Union Symposia

US5 Prospective views for European Cooperation in Geosciences & Environmental Sciences: Contributions in a global context

Convener: Marks, J.
Co-Conveners: 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
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
Long cores through complete cold-water coral carbonate mounds: fromIODP307 to EuroMARC project CARBONATE (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 shipboard 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
Wohlfarth, 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)

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-11084; 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)
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

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
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., Funiciello, 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.; Buylaert, 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
Karlsson, B.
Evidence for interhemispheric stratosphere-mesosphere coupling derived from noctilucent cloud properties

10:00 COFFEE BREAK

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
Doddion, J.; Trüll, D.; Vanhellemont, F.; Bingen, C.; Mateshvil, 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
Karlsson, B.; Körnich, H.; Gumbel, J.
Evidence for interhemispheric stratosphere-mesosphere coupling derived from noctilucent cloud properties

11:45–12:00; EGU2007-A-02594; AS0-1MO2O-005
Reichl, P.; von Savigny, C.; Bovensmann, H.; Burrows, J. P.
Geographic distribution of polar stratospheric clouds

12:00–12:15; EGU2007-A-06366; AS0-1MO2O-006
Gruber, S.; von Savigny, C.; Bovensmann, H.; Burrows, J. P.
Geographic distribution of polar stratospheric clouds

12:15 END OF SESSION
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-08668; AS0-1MO3P-0003
Bordas, A.
Reactive asymmetrical convective model for vertical mixing

XY0004; EGU2007-A-09035; AS0-1MO3P-0004
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.; Kacelenenbogen, 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
Xu, 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.; Parlane, 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.; Bormann, 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, À 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
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.
Odn-SMR measurements of water isotopologues in the stratosphere: An update

XY0023; EGU2007-A-08331; AS0-1MO4P-0023
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 FITR 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
Mone-Sanz, B. M.
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
Meeting Programme

8:30–8:45; EGU2007-A-02682; AS1.02-1MO1O-001
Chairperson: N.N.
Lecture Room 12 (E2)
Convener: Järvinen, H.
Multi-scale, model-based urban analyses, forecasts and climatologies

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-05276; AS1.02-1MO2O-001
Williams, K. D.; Brooks, M. E.
Initial tendencies of cloud regimes in the Met Office Unified Model

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
Rishøjgaard, 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.; Dörnbrack, 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
Local asymmetry in ground-based GPS slant delay data

11:00–11:15; EGU2007-A-09141; AS1.02-1MO2O-003
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
Ófåsson, H.; Ágústsson, H.; Rígvaldsson, 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.
LBM-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 Chateau, 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
Kornblueh, L.; Keller, J; Rhodin, R.; Hense, A.; Wergen, W
A combined ETKF/breeding assimilation system
XY0001; EGU2007-A-01090; AS1.02-1MO3O-0001

14:30 – 14:45; EGU2007-A-11510; AS1.02-1MO3O-0005

García-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-0006
Liu, Y.; hacker, J.; xu, M.; warner, T.; swrdlin, 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
Mirza, C. R; Koike, T.; Yang, K.; Graf, 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
Assimilation data from diverse sources for mesoscale NWP: TAMDAR-data impact

XY0044; EGU2007-A-01030; AS1.02-1MO4P-0044
Perez, 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, Phil
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.; Ahmed-Givi, F.; Amiri, A.
Compact spatial differencing for the spherical shallow water equations

XY0050; EGU2007-A-01210; AS1.02-1MO4P-0050
Mohabjohel, 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 Brujin, E.L.F; Tijm, 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
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
Marrocchetti, M.; Chessa, P. A
Assessment of the performance 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: Spiichtinger, 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.; Flament, C.; Tulet, P.; Chaboureau, 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

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
Lamquin, N.; Stubenrauch, C.J.; Wang, P.-H.
Influence of ice supersaturation and dynamics on cirrus occurrence near the tropopause

10:00–10:15; EGU2007-A-04376; AS1.04-1MO3O-001
Ervens, B.; Spyridon, C.I.; Strong, C.; Sauer, P.
Initial results from the GRAPE version 2 aerosol and cloud climatology

10:30–10:45; EGU2007-A-05405; AS1.04-1MO4O-001
Stevens, B.
Precipitation effects on shallow cumulus convection (solicited)

10:30–10:45; EGU2007-A-00746; AS1.04-1MO1O-002
Rose, D.; Frank, G. P.; Dusek, U.; Andreade, 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.; Sistok, S.-L.; Ripeinen, 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.; Stirn, 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
Hünemeier, 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.
Campmany, E.; Thomas, G.E.; Carboni, E.; Poulsen, C.A.; Grainger, R.G.; Lawrence, M.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.; Euan, 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
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, OK; 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
Dyars, 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: Dyars, I.
Co-Conveners: 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.; Rugel, 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, A.; Lebedeva, N.
Agronomic, meteorological monitoring of Austrian grasslands using GIS based modeling

XY0067; EGU2007-A-10881; AS1.13-1MO3P-0067
Warner, R.; Romsrod, 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-day rainfall by GIS in Gorgan region-Iran

AS3.10 Modelling, Data-Assimilation and Source-Sink Inversion for Operational Atmospheric Composition

Convener: Hollingsworth, A.
Co-Conveners: GRANIER, C.; Paliouras, E.

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.; Geß, H.
European heatwave 2003: A GEMS-GRG approach with the global CTM MOZART3

14:30–14:45; EGU2007-A-07649; AS3.10-1MO3O-005
Ordoñez, 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.; Erbtseder, 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
Three years of global carbon monoxide, methane and carbon dioxide columns retrieved from SCIAMACHY on ENVISAT

15:45–16:00; EGU2007-A-03772; AS3.10-1MO4O-002
GEMS: Evaluation of the aerosol component

16:00–16:15; EGU2007-A-01789; AS3.10-1MO4O-003
Kaiser, J.W.; Geiß, H.
Evaluation of the performance of global chemistry transport models during the European heat wave of summer 2003

16:15–16:30; EGU2007-A-03983; AS3.10-1MO4O-004
Kinne, S.; Morcrette, J.J.; Flentje, H.; Mangold, A.
Global Fire Emission Modelling for Atmospheric Composition and Land Cover Monitoring

16:30–16:45; EGU2007-A-03984; AS3.10-1MO4O-005
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

16:45–17:00; EGU2007-A-03985; AS3.10-1MO4O-006
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

17:00 END OF SESSION
16:30–16:45; EGU2007-A-02618; AS3.10-1MO4O-005
Nieradzik, L., Elbenn, 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
Convenor: Hollingsworth, A.
Co-Conveners: 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 PROMOTE2 Team
An Overview of PROMOTE2: Delivering advanced operational services directly to users.

XY0071; EGU2007-A-06718; AS3.10-1MO2P-0071
Laufaux, L.; Davis, D.; Sarrat, S.; Chevallier, C.; Uliasz, U.; Lac, I.; 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.; Sarrat, 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.; Ordoñez, C.; Mionat, 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-09889; AS3.10-1MO2P-0076
Eddouma, F.; Teotor, 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 NOx Emissions: dependence upon location and season of emission

XY0078; EGU2007-A-02255; 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 Roozendael, 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.; Sarrat, S.; Sutie, M.; Tompkins, A.; Untch, A.
GEMS-Aerosol at ECMWF: An Update

Biogeosciences

BG3.03 Fluvial networks and biogeochemistry (co-listed in HS) – Posters
Convenor: Battin, T.
Co-Conveners: 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)
Convenor: Lotter, A.
Co-Conveners: 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.; Arpenti, E.; Lotter, A.F.
Lateglacial summer temperature in Northern Italy as re-constructed by fossil chironomid assemblages in Lago di Lavaron (1100 m asl)
13:45–14:00; EGU2007-A-06764; BG5.08-1MO3O-002
Garcia-Amorena, I.; Wagner, F.; van Hoof, T.B.; Morla, C.; Gómez Manzaneque, F.; Visscher, H.
The role of atmospheric CO2 variability on the Holocene climate of the Northern Hemisphere – evidence from stomatal frequency analysis of Iberian oak leaves

14:00–14:15; EGU2007-A-08050; BG5.08-1MO3O-003
Korhola, A.; Valiranta, M.; Seppä, H.; Tuittila, E.-S.; Laine, J.; Alm, I.
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.; Mocci, 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-09900; BG5.08-1MO3O-005
Feurdean, A.; Willis, KJ
The importance of refugial population on Late-glacial and early Holocene vegetational changes in Romania

14:45–15:00; EGU2007-A-04459; BG5.08-1MO3O-006
Pollen-inferred past climate reconstruction in the Alps: how to estimate the effect of elevation.

15:00–15:15; 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.

15:15–15:30; EGU2007-A-02545; BG5.08-1MO4O-002
Räsänen, S.; Froyd, C.; Goslar, T.; Suutari, H.; Nielsen, A.B.
Assessing and developing palynological tools for quantitative reconstructions of human impact on vegetation in Fennoscandian boreal forests

15:30–15:45; EGU2007-A-04459; BG5.08-1MO4O-003
Gauthier, G.; Anselmetti, F. S.; Bernasconi, S.; Gobeil, C.; Tessier, A.; Gérard, L.; Goormaghtigh, C.; Magny, M.M.; Peyron, O.P.
Tracking Holocene climate and land-use changes in the high-Arctic region of the Central Jura Mountains (France and CH).

15:45–16:00; EGU2007-A-02545; BG5.08-1MO4O-004
Ressions, J.L.; Enters, D.; Reyss, J.L.; Giguet-Covex, C.; Arnaud, F.; Poulenard, J.; Druart, J.C.; Giguet, C.; Desmet, M.; Magny, M.
Last two Millennia atmospheric lead and heavy metals inputs in a Belgian peat bog: regional to global Human impacts

16:00–16:15; EGU2007-A-04005; BG5.08-1MO4O-005
Van der Borg, K.; Blockley, S.; Filippi, M.L.; Arpenti, E.; Heiri, O.; Frisia, S.; Angeli, N.; van der Borg, K.; Blockley, S.
Stone age to modern vegetation changes: a unique multi-proxy record from Trentino, NE Italy

16:15–16:30; EGU2007-A-01465; BG5.08-1MO4O-006
De Vlesserhouwer, F.; Gérard, L.; Goormaghtigh, C.; Mattielli, N.; Le Roux, G.; Fagel, N.
Late two Millennia atmospheric lead and heavy metals inputs in a Belgian peat bog: regional to global Human impacts

16:30–16:45; EGU2007-A-10899; BG5.08-1MO4O-007
Thevenon, E.; Anselmetti, F. S.; Bernasconi, S.; Williamson, D.; Sigl, M.; Schiwikowski, M.
Pyrogenic carbon quantification from lacustrine, oceanic, and glacier records.

17:00 END OF SESSION
BG0014; EGU2007-A-05664; BG5.08-1MO2P-0014
Schmidt, A.; Sturm, M.
An unique, high altitude, lacustrine sediment record of the Holocene to the Late Glacial: Lej da la Pischia, 2 770 m a.s.l.

BG0015; EGU2007-A-05630; BG5.08-1MO2P-0015
Results of environmental multiparameter studies of sediment trap material of Lago Maggiore, Italy.

BG0016; 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

EGU2007-A-00167; BG6.0/SSS24-1MO2P-0022
Pitzurra, L.
Biophysical and Biochemical weathering of coastal Morocco

EGU2007-A-00041; BG6.0/SSS24-1MO2P-0021
Australian forest soil communities and mineral weathering in a temperate Australian forest soil

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
Adhesion to sulfur and metal sulfdes surfaces by leaching bacteria (cancelled)

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 cementeous 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, A.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
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  
Biologically-assisted silicate dissolution

BG0025; EGU2007-A-00763; BG6.0/SSS24-1MO2P-0025  
Konishi, Y.; Ohno, K.; Shimunaka, S.; Sito, N.; Nomura, T.  
Bioreductive deposition of noble metal nanoparticles on metal-reducing bacteria

BG0026; EGU2007-A-01420; BG6.0/SSS24-1MO2P-0026  
Kolo, K.; Claesy, 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  
Aertes, 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.  
Development 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.; Dormayr-Paffenhuemer, 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  
Dormayr-Paffenhuemer, 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  
Corrosion products on carbon steel and microbial community structure in marine environments (cancelled)

BG0041; EGU2007-A-07253; BG6.0/SSS24-1MO2P-0041  
Usfilato, 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.; Muehlebachs, 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  
Nuester, J.; Lierman, 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

BG0046; EGU2007-A-10768; BG6.0/SSS24-1MO2P-0046  
Hughes, K.; Southam, G.  
The biogeochemical development and community structure of desert potholes

BG0047; EGU2007-A-10784; BG6.0/SSS24-1MO2P-0047  
Gorbushina, A.A.; Chertov, O.G.  
The effect 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-Conveners(s): Krüger, M.
Lecture Room 19
Chairperson: N.N.

8:30–8:45; EGU2007-A-01059; BG6.02-1MO1O-001
Lappin-Scott, H.M.
Microbial structure and function towards understanding geomicrobiology processes (solicited)

8:45–9:00; EGU2007-A-01095; BG6.02-1MO1O-002
Küsel, K
Linking diversity and processes to biogeochemical depth gradients in acidic fens

9:00–9:15; EGU2007-A-10808; BG6.02-1MO1O-003
Multi-drilling of Sedimentary Rock Reveals Deep Terrestrial Subsurface Bacterial Distribution Constrained by Geological Setting

9:15–9:30; EGU2007-A-01062; BG6.02-1MO1O-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; BG6.02-1MO1O-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; BG6.02-1MO1O-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; BG6.02-1MO2O-001
Wagner, M.
Raman-FISH and isotope arrays: New approaches for linking processes with microbial communities (solicited)

10:45–11:00; EGU2007-A-05199; BG6.02-1MO2O-002
Méně, 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; BG6.02-1MO2O-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; BG6.02-1MO2O-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; BG6.02-1MO2O-005
Kaestner, M.; Fischer, A.; Nijenhuis, I.; Geyer, R.; Stelzer, N.; Bombach, P.; Tebbe, C.C.; Richnow, H.H.
In situ microbial activity assessment in contaminated aquifers

11:45–12:00; EGU2007-A-10704; BG6.02-1MO2O-006
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-Conveners(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.; Löders, T.; Friedrich, M.; Küstner, 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
Meije, 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.; Cyponika, 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
Agoğü, 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
Microbial methane formation from coal and wood - Possible sources for biogenic methane in abandoned coal mines

Rossi, P.; Varidel, I.; Holliger, C.

Community structure and micro-scale distribution in endolithic microbial desert ecosystems


Characterization of Geochemical Barriers in a former Uranium Mining District


What can DNA tell us about microbial colonization of rock surfaces?

Hutchens, E.; Clipson, N.; McDermott, F.

Metal resistance mechanisms in hydrothermal microbial communities

Warr, L.N.; Berger, J.; Lett, M-C; Khodja, M.

Investigation of a microbial community involved in dolomite formation, Lagoa Vermelha, Brazil

Monteiro, S.; Lloyd, J.R.; Mills, R.; Benning, L.

Microbial life associated with weathering of ultramafic rocks

Daae, E.L.; Øvreas, B.; Bjelland, T.; Okland, I.; Thorseth, I.; Pedersen, I.B.

Characterization of Geochemical Barriers in a former Uranium Mining District

Postec, A.; Warthmann, R.; Vasconcelos, C.; McKenzie, J.A.

Microbial methane formation from coal and wood - Possible sources for biogenic methane in abandoned coal mines (cancelled)

Krueger, M.; Thielemann, T.

Bioaccumulation of manganese oxides in industrial heat exchangers


Bacteria-mediated metal deposition within the byssal threads of the deep-sea hydrothermal vent mussel Bathymodiolus azoricus

Kadar, E.

Trends in the amplitude of Baltic Sea level annual cycle

Hünicke, B.; Zorita, E.

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

Wang, P.X.; Walsh, J.E.; Zhang, J.

Climate impacts of a greener north

Hünicke, B.; Zorita, E.

Climate: Past, Present, Future

CL0 Open Session on Climatology and Palaeoclimatology (including Milutin Milankovic Medal Lecture)

Convener: Rousseau, D.

Chairperson: ROUSSEAU, D., SICRE, M.

Impact of a realistic river routing in a coupled ocean-atmosphere simulation of the last glacial maximum climate

Alkama, R.; Kageyama, M.; Ramstein, G.

Overall Pattern of Global Change in the Upper Atmosphere


Linking atmospheric and oceanic circulations in the Southern Indian Ocean during the last glacial period

Ivanova, E.V.; Beaufort, L.; Vidal, L.

What can DNA tell us about microbial colonization of rock surfaces?

Hutchens, E.; Clipson, N.; McDermott, F.

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

Simulation of Earth rotation parameters with atmospheric and oceanic GCMs

Winkelnkemper, T.; Chen, X.; Seitz, F.; Walter, C.; Hense, A.

11:00–11:15; EGU2007-A-04323; CL0-1MO2O-003

An analysis of past, present and future ECHAM5 pressure fields using a classification of circulation patterns.

Demuzere, M.; Werner, M.; Van Lipzig, N.P.M; Roecker, E.

11:15–11:30; EGU2007-A-03428; CL0-1MO2O-004

Climate of a greener north

11:45–12:00; EGU2007-A-06076; CL0-1MO2O-005

Hünicke, B.; Zorita, E.

12:00 LUNCH BREAK
XY0086; EGU2007-A-00223; CL0-1MO5P-0086
On the transformation of Pacific Water into Indonesian Throughflow Water by intranl tidal mixing

XY0087; EGU2007-A-00372; CL0-1MO5P-0087
Podobina, V.; Ksenueva, 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
Plançon, 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
Scheflinger, H.; Koch, E.; Matulla, C.; Cate, P.
New frontiers in plant phenological research

XY0091; EGU2007-A-02968; CL0-1MO5P-0091
Sionneau, T.; Bout-Roumazeilles, 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
Miletà, 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 14CH4 in Antarctic ice over the agro-industral period: a status report.

XY0097; EGU2007-A-05225; CL0-1MO5P-0097
Markovic, S.B.; Bokhorst, M.P.; Vandenbergh, J.; Gaudenzi, T.; Frechen, M.; Jovanovic, M.; Machalett, B.
High-resolution Lower Plianglacial 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.; Pisoft, P.
Evolution profiles of annual cycle in global temperature fields during last 50 years

XY0100; EGU2007-A-05748; CL0-1MO5P-0095
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
Bochňícek, 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.; Brázdíl, R.; Dobrovolný, P.; Telasí, R.
Climate 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.; Nael, 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
Laeppl, T.; Lohmann, G.
Harmonic responses to climate cycles

XY0112; EGU2007-A-09332; CL0-1MO5P-0112
Weitzenkamp, B.; Schneider, C.; Kliian, R.; Spiecker, H.; Kahl, 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 paleoecological and paleoceanographic implication

XY0116; EGU2007-A-10659; CL0-1MO5P-0116
Beck, C.; Philipp, A.; Jacobo, 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.; Gommes, 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 Ytamat 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.; Bergstrasser, A.; Gortlitz, 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
Dealidis, 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-Conveners(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.; 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; CL2-1MO20-006
Keenlyside, N.; Latif, M.; Jungclaus, J.; Kornblueh, L.; Roeckner, E.
Forecasting North Atlantic Decadal Climate Variability
(solicited)

12:00 LUNCH BREAK

Chairperson: N.N.

Progresses in understanding summertime European heat and drought waves (solicited)

13:45–14:00; EGU2007-A-02175; CL2-1MO30-002
Bolliet, 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; CL2-1MO30-003
Vitart, FP; Doblas_Reyes, F
Monthly Forecasting at ECMWF

14:15–14:30; EGU2007-A-03997; CL2-1MO30-004
Impact of atmospheric resolution and atmospheric/land initial conditions on seasonal forecasting with the NCEP coupled forecasting system

14:30–14:45; EGU2007-A-06348; CL2-1MO30-005
Xavier, P.K.; Duvel, J-P
Validation of summer monsoon intraseasonal variability in the DECMER hindcasts

14:45–15:00; EGU2007-A-09348; CL2-1MO30-006
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.

Authors in Attendance: Monday, 17:30–19:00
Poster Area Halls X/Y

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 forecasts based on fall snow and atmospheric anomalies

XY0124; EGU2007-A-07320; CL2-1MO5P-0124
Shongwe, M. E.; Ferro, C.; Coelho, C.; van Oldenborgh, 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.; Appenzeller, C.
Probabilistic verification of ECMWF monthly forecasts

XY0127; EGU2007-A-01933; CL2-1MO5P-0127
Cazaciu, L.
Verification of the performance of global circulation models in monthly temperature and precipitation simulation (cancelled)

XY0128; EGU2007-A-08455; CL2-1MO5P-0128
Doblas-Reyes, F.J.; Palmer, T.N.; Weisheimer, A.; Rodwell, M.; Jung, T.
Reliability of precipitation: From seasonal forecasts to climate change projections

XY0129; EGU2007-A-02991; CL2-1MO5P-0129
Tome, A.R.; Almeida, P.
Usefulness 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 temperature and the winter rainfall in Galicia (NW Spain)

XY0131; EGU2007-A-06813; CL2-1MO5P-0131
Paszuti, M.; Genesio, L.; Primicerio, J.; Crisci, A.; Benedetti, R.; Maracchi, G.
Summer seasonal forecast in the Mediterranean area: a multi-regressive approach

XY0132; EGU2007-A-02332; CL2-1MO5P-0132
Sharifan, H.; Ghaframan, 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.; Cofino, 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
Blending ensembles from multiple models

XY0137; EGU2007-A-10599; CL2-1MO5P-0137
Prino, C.; Gutierrez, J.M.; Rodriguez, M.A.
Characterization of the spatio-temporal evolution of ensembles of initial perturbations

XY0138; EGU2007-A-06240; CL2-1MO5P-0138
Combining stochastic forecasts of attributes based on the Standardised Precipitation Index transformation design

XY0139; EGU2007-A-08455; CL2-1MO5P-0139
Cattle, H.; Boscolo, R.
CLIVAR activities in seasonal predictions

CLIVAR activities in seasonal predictions

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CL20 Probabilistic Forecasts of Climate and the Potential Impacts of Climate Change (co-listed in NP & ERE)

Conveners: Stainforth, D.
Co-Conveners(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

Conveners: Stainforth, D.
Co-Conveners(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
Cauller, 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.
Urs 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
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.; Kuench, 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

Conveners: Weber, N.
Co-Conveners(s): Hargreaves, J., Kageyama, M.
Lecture Room: 25
Chairperson: WEBER, N.

13:30–14:00; EGU2007-A-00656; CL24-1MO3O-001
Otto-Blesner, B.L.; Overpeck, J.T.; Marshall, S.J.; Miller, G.H.; Hu, A.
Arctic warmth and icefield retreat in the Last Interglacial: 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

173
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.; Ogaito, 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-Convenor(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
Ogaito, 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
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
Tuenor, 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.; Ogaito, 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
Laîné, A.; Kageyama, M.
Energy transport in a “warm” (4xCO2) climate and mid-Holocene
CL29/CL46 Millennial-scale variability / Solar forcing of climate

Convener: Johnsen, S.
Co-Conveners: 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)

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

XY0176; EGU2007-A-04762; CL29/CL46-1MO5P-0176
Millenial-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’Alcàla, 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.; Elleschaw, 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
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 millenial-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 δ18O records.
Meeting Programme

XY0190; EGU2007-A-11570; CL29/CL46-1MO5P-0190
Bea, J
Long-term solar Variability derived from cosmogenic Radionuclides (solicited)

XY0191; EGU2007-A-11577; CL29/CL46-1MO5P-0191
Reti, U.
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
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
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
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 interannual 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
Treger, E.; Smith, L.A.; Stainforth, D.
Investigating variations in heat flux adjustment in the climateprediction.net ensemble

XY0213; EGU2007-A-08447; CL40-1MO5P-0213
Hawelbeck, D.; Smith, L.A.
Tracing the History of Estimated Climate Sensitivity

Cryospheric Sciences

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
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
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

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.; Loay, A.; Sugiyama, S.; Walter, F.; Weiss, Walte; Funk, M.
Gorner jökulhlaups: 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-01892; 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
**Meeting Programme**

**A0007:** EGU2007-A-06576; CR10-1MO4P-0007

Abramov, 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.; Zoleova, 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.; Diolaiti, 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 & NI) – Posters**

Convener: Gruber, S.
Co-Convener(s): Hauck, C.

**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; Calluaud, 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; Permanadel

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.; Ulrich, 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.; Dortje, H.; 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

Ebobon, 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

Baerlecolli, 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
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<th>Title</th>
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<tr>
<td><strong>CR40 Climate change impacts on glaciers, permafrost and related hazards (co-listed in NH &amp; CL)</strong></td>
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<td><strong>CR40 Climate change impacts on glaciers, permafrost and related hazards (co-listed in NH &amp; CL) – Posters</strong></td>
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<td>Display Time: Monday, 13:30–15:00</td>
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**10:00 COFFEE BREAK**
Meeting Programme

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
Fragmentation of Magma: Controls from Porosity, Permeability and Textures

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; GMPV3-1MO3P-0056
Scalamachia, 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; GMPV3-1MO3P-0055
Teixido, F.; De Campos, C.; Dingwell, D.B.; Marti, 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

180
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 concentration 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.; Haakberg, K.

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 peralkaline magma chamber processes in the Naivasha area, Kenya Dome

A0070; EGU2007-A-03303; GMPV3-1MO5P-0070
Castorina, F.; Masu, U.; Palomba, M.
Nd and Sr isotope geochemistry of plutonic rocks from Otana (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 Karacaahm Magnatic Complex, Central Anatolia, Turkey: Evidence for metal partitioning during magma mixing/mingling processes

A0072; EGU2007-A-00674; GMPV3-1MO5P-0072
Kožlu 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.; Imamipour, 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-Convenors: Acocella, V., Vinciguerra, S.
Lecture Room 21 (O)

17:45–17:00; EGU2007-A-00867; GMPV6-1MO4O-005
Kožhurin, A.
Kamchatka island arc: two modes of extension in the overriding plate

17:00–17:15; 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

16:30–16:45; EGU2007-A-00606; GMPV6-1MO4O-005
Kožhurin, A.
Kamchatka island arc: two modes of extension in the overriding plate

16:45–17:00; EGU2007-A-03847; GMPV6-1MO4O-006
Irmazehadi, 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
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; GMPV6-1MO1O-004
Hall, S.; Viglioni, 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; GMPV6-1MO1O-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; GMPV6-1MO1O-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
Fries, 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
Mechanisms of saucer-shaped sill emplacement and associated domeing: 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 Tastau 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, geochronological and geochronology 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.; Glaoguen, R.; Abebe, B.
Normal faulting in oblique-spreading rift systems quantified by means of DEM analysis

A0086; EGU2007-A-06185; GMPV6-1MO1P-0086
Glaoguen, 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
Benson, P.M.; Del Gaudio, P.; Heap, M.; Marucci, M.T.; Marra, F.; Meredith, P.G.; Monteone, P.; Pierdominici, S.; Scarlato, P.
Physical properties of tufts 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)

182
A0104; EGU2007-A-09546; GMPV19-1MO4P-0104
Jamais, M.; Stracke, A.; Chauvel, C.; Hofmann, A.W.; Hémon, 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.; Parrello, F.; Peudevin, C.
Helium isotope signature and the mantle source of OIB-type alkaline magmatism in Southern Mediterranean

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.; Vladykin, 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 superplume 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.; Urschel, C.; Ploner, M.; Hugentobler, U.
Latest GNSS orbit modelling improvement at CODE

15:00 COFFEE BREAK
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.; Shoorecheh, 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 altimetry time delays when determining global ionosphere maps

XY0218; EGU2007-A-06516; G6-1MO2P-0218
Schoenemann, E.; Zeitmetz, 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 Lucy, 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
Brooderbauer, 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.; Melachroinos, S. A.
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) – Posters

Convener: Sledzinski, J.
Co-Conveners: Kostelecky, J.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
Poster Area Halls XY

G11 Geodetic and Geodynamic Programmes of the CEI (Central European Initiative) – Posters

Convener: Sledzinski, J.
Co-Conveners: Kostelecky, J.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
Poster Area Halls XY

Chairperson: MEDAK, D.

10:00–11:00; 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.; 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-003
Pribicevic, B.; Medak, D.; Djapo, A.
Precise geodetic and hydrographic measurements in karst areas

12:00–12:15; EGU2007-A-00173; G11-1MO2O-003
Applications of 3D terrestrial laser scanning in geodynamic monitoring

12:00–12:15; EGU2007-A-00173; G11-1MO2O-003
Applications of 3D terrestrial laser scanning in geodynamic monitoring
Study of the relationship between the tectonic stress and the deformation of the lithosphere in the territory of Poland – a new geodynamics research project

Monitoring of displacement of engineering objects using GPS-RTK technique

Towards a Unified Geodetic Reference Frame for Polish GNSS Stations and Geodynamic Test Fields

Monitoring of displacement of engineering objects using GPS-RTK technique

Towards a Unified Geodetic Reference Frame for Polish GNSS Stations and Geodynamic Test Fields

Comparison of periodic components of GPS time series for selected permanent stations on the area of CEI countries

New European initiative of regional co-operation: EUPOS INTERREG IIIC

Role of environmental signals in the Earth tides observations: experiments at Jozefoslaw Observatory

Improved ultra-rapid orbits from Geodetic Observatory Pecný

Conception of DTM GRID type with Constant Area Method

Monitoring of dynamic movements of Hans glacier control points using Smart Station

Monitoring of thickness and movements of the Hans glacier surface in a period of 2005-2006 by using GPS-RTK technology

Common spatial reference frame in geo-informatics

Geoynamics

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
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.; 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.; Cavaliè, O.; Peltzer, G.; Socquet, A.; Doin, M.-P.; Sun, J.; Xu, X.; Shen, Z.; Wang, Q.; Gaudey, Y.
Interseismic strain across the Altyn Tagh and Haiyan 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-03783; GD08-1MO2O-004
Fielding, E.J.; Lundgren, P.; Funning, GJ; 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 Geodectics 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.; Cavaliè, O.; Lasserre, C.; Briole, P.
Probing the lithospheric 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.; Ockeen, 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-Conveners(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, L.; Delgado, F.; Di Bella, E.; Estevez, A.; Makaone, E.; Messina, A.; Sonna, 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, L.; Alfaro, F.; Estévez, A.; Martin-Martín, M.
Recent deformation in the basement of the Bajo Segura Basin

A0112; EGU2007-A-01782; GD11-1MO3P-0112
Sonna, R.; Martin-Rojas, L.; Messina, A.; Perrone, V.
The exhumed Mesozoic “Verrucano” redbeds of the Peloritan Alpine Belt (NE Sicily, southern Italy)

A0113; EGU2007-A-02093; GD11-1MO3P-0113
Reeh, G.; Abudnaser, K.
Geophysical and remote sensing techniques as tools fro structural geological interpretation of Cyrenaica platform NE Libya

A0114; EGU2007-A-02642; GD11-1MO3P-0114
Altiner, Y.; Bacic, 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.; Hanstad, 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, L.; Alfaro, P.; Martin-Martín, M.
The Vent – s-Maigno 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 contractual 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-Azpíroz, 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-Azpíroz, 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
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.; Facenna, C.
Evolution of the Calabrian accretionary prism: preliminary results

A0125; EGU2007-A-07611; GD11-1MO4P-0125
Garate, J.; Martín Davila, J.; Khazaradze, G.; Guerri, M.; Anastasio, M.; Gallastegui, J.; Ayala, C.; Tellez, J.; Ayarza, P.
Tectonic shortening and gravitational spreading in the Gulf of Cadiz accretionary wedge: results from bathymetric swathmapping and seismic surveys

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.; Pedraza, 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
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

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**Geomorphology**

**GM8 High Mountain Geomorphology – Posters**

Convener: Kuhle, M.
Co-Conveners: Iturrrizaga, 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.
Palaosurface 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.; Stroeven, A.P.
A glacial geomorphological map of the northeastern Tibetan plateau

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**GM12 Dynamics of landscape transience (co-listed in GD)**

Convener: Reinhardt, L.
Co-Conveners: 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.; Poese, 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

10:30–10:45; EGU2007-A-06783; GM12-1MO2O-001
Sediment Controls on Bedrock Channel Morphology

10:45–11:00; EGU2007-A-10946; GM12-1MO2O-002
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
Modelling fluvial incision and transient landscape evolution: reconciling theory and field observations

11:45–12:00; EGU2007-A-07229; GM12-1MO2O-006
Van Melle, J.; van de Beek, P.; Pêcher, A.; Løfth, 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-Convenor(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.

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.; Solar, L.
A monitoring activity on bedrock incision in the Cardoso River (Tuscany, Italy)

XY0255; EGU2007-A-02623; GM12-1MO5P-0255
Mohammadi, A.; Mosadiq, A.; Alaghmand, S.; Zlatkovicj, J.
Investigation on changes of the Gorgan River morphology in the vicinity of Gonbad City

XY0256; EGU2007-A-09676; GM12-1MO5P-0256
Mugnier, J.; 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.; carreter, s.; larroque, c.; todbee, m.; arzhannikova, a.; arzhannikov, s.; boulès, 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
Carcailllet, J.; Mugnier, J. L.; Chabreyrou, J.; Koçi, R.; Joanne, 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
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 Turttmann 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-Conveners: Crosta, G.
Display Time: Monday, 08:00–19:30

XY0265; EGU2007-A-02324; GM14-1MO5P-0265
Tagliavini, E.; 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.; Metivier, 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
Jamiel 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.; Hradaecy, 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.; Retiner, J.M.
The impact of rapid mass movements on valleys: Examples from the Eastern Alps

XY0274; EGU2007-A-09426; GM14-1MO5P-0274
Kaspzrak, M.
Distribution of erosion and accumulation zones in relation to valley morphology, a case study from the flood on the Kwisa 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-Conveners: Stuart, F.; Benedetti, L.
Lecture Room 17 (M)
Chairperson: N.N.

Vermeech, P
CosmoCal: an Excel Add-In for cosmogenic nuclide calculations

13:45–14:00; EGU2007-A-02438; GM21-1MO30-002
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; GM21-1MO30-003
Gayer, E.; Mukhipadhyay, 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; GM21-1MO30-004
Denudation and landscape preservation in Taiwan: the cosmic ray exposure perspective

14:30–14:45; EGU2007-A-06559; GM21-1MO30-005
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; GM21-1MO30-006
Schlagenhaufl, 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.

Post-detachment sediment residence times

15:45–16:00; EGU2007-A-07273; GM21-1MO40-002
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; GM21-1MO40-003
Fabel, D.; Stroeven, A. P.
Evaluating a cosmogenic nuclide calibration site at Mt Billingen, Sweden

16:15–16:30; EGU2007-A-02196; GM21-1MO40-004
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; GM21-1MO40-005
Fernández-Mosquera, D.; Martí, K.; Vidal-Román, 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 21Ne 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-Conveners: 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 36Cl on Fuerteventura, Canary Islands, Spain

XY0278; EGU2007-A-02169; GM21-1MO5P-0278
Mercel, 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
Multiple prehistoric landslides at Kofels (Austria): Timing by cosmogenic 10Be

XY0280; EGU2007-A-02389; GM21-1MO5P-0279
Rixon, G.; Bovy, B.; Hallot, E.; Bourlès, D.; Demoulin, A.
The quaternary uplift and river incision of the Rhenes Massif: a cosmogenic nuclides (10Be) approach

XY0281; EGU2007-A-02911; GM21-1MO5P-0281
Pleistocene East Antarctic Ice Sheet variations in the Ricker Hills

XY0282; EGU2007-A-03510; GM21-1MO5P-0282
Carretil, 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
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 Dagh Mountains, NE Iran

XY0286; EGU2007-A-04431; GM21-1MO5P-0286
Fenton, C.R.; Niedermann, S.; Goethals, M.; Schneider, B.
Evaluation of cosmogenic 3He and 21Ne 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 14C at the Isotope Geochemistry lab of ETH Zurich, Switzerland

XY0288; EGU2007-A-05015; GM21-1MO5P-0288
Pinzutti, 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.; 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.
21Ne 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 36Cl 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 40Ar/39Ar geochronology of young basalts

Geosciences Instrumentation and Data Systems
G11 Open session on Geosciences Instrumentation (co-listed in GMPV, G, HS, MPRG, NH, OS & SM)
Convener: Korepanov, V.
Co-Conveners: Svedhem, H., Harri, A.
Lecture Room 2
Chairperson: N.N.
Doneva, B.; Delipetrev, B.; Panovska, S.; Dimov, G.
Measurements electromagnetic radiation the frequency of 50 Hz

13:45–14:00: EGU2007-A-00682; G11-1MO3O-002
Korepanov, V.; Klymovych, Ye.; Kuznetsov, O.; Pronenko, V.; Prystai, A.
A super-wide band magnetotelluric instrument

14:00–14:15: EGU2007-A-00697; G11-1MO3O-003
Yakymchuk, M.A.; Korchagin, I.N.; Levashov, S.P.; Yakymchuk, M.A.
Express-technology of "direct" searching and prospecting for hydrocarbon deposits by geoelectric methods

14:15–14:30: EGU2007-A-01597; G11-1MO3O-004
Heilig, A.; Schneebeli, M.
Using thresholding for an automated helicopter-based detection of avalanche victim and 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.; Kraus, P.; Fritz, S.; McCallum, I.
Global Earth Observation – Benefit Estimation

16:15–16:30; EGU2007-A-07511; GI1-1MO4O-004
Savenko, Y.; Vodotovka, V.
Real-time monitoring system in millimetre and optical ranges

16:30–16:45; EGU2007-A-07511; GI1-1MO4O-005
Frei, D.; Bernstein, S.; McLimans, R.; Kudsen, C.
Application of CSCEM to heavy mineral deposits: source of high-Ti ilmenite sand deposits of South Kerala beaches, SW India

16:45–17:00; EGU2007-A-08245; GI1-1MO5O-006
Kaczorowski, M.
Long water-tube tiltmeter in Geodynamic Laboratory in Ksiaz, Poland

19:00 END OF SESSION

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.; Ballard, 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.; Kolonits, A.
Grain size retrieval from MODIS data using a semi-analytical retrieval algorithm (SARA) and a fractal snow grain model
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

11:00–11:15; EGU2007-A-11082; HS2-1MO2O-003
Boni, G.; Caparrini, F.; Castelli, F.; Delogu, F.; En-tekhabi, 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 OPES’3S 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.
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

HS3 Space observations and field experiments
Convener: Su, Z.
Co-Conveners: 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 micrometers 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; Vischel, 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
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-Conveners: 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
Hautecoeur, 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
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 Cell, 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
Mobasheri, 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.; Mätzer, C.; Oberdoerster, C.; Vanderborght, J.; Flühler, H.
FOSMEX: A remote sensing forest soil moisture experiment using microwave radiometers

A0161; EGU2007-A-07725; HS3-1MO4P-0161
Gruhl, C.; de Rosnay, P.; Richaume, P.; Kerr, Y.; Rüüger, C.; Walker, J.P.; Mougin, 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
Directional radiative measurements on forest, hay and young maize during the EAGLE2006 field campaign
A0163: EGU2007-A-09046; HS3-1MO4P-0163
Gherboudj, I.; Filion, R.; Panicconi, 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-situ 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)
Convenor: Kosuth, P.
Co-Conveners: 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.
Run-off generating soil moisture patterns in subtropical regions

16:00–16:15; EGU2007-A-07620; HS4-1MO4O-003
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.; Günther, 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)
Convenor: Bloem, E.
Co-Conveners(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
Kambara, 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-Mentiken kinetics and stable carbon isotopes

9:00–9:15; EGU2007-A-06285; HS8-1MO1O-003
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
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.; Trémolières, 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.; Willseheid, A.
Determination and validation of age structures as an improved measure of hydrological dynamics
13:00–13:15; EGU2007-A-01804; HS8-1MO2O-003
Mertens, J.; Degryse, F.; Amery, F.; Cheyns, K.; De Troyer, I.; Feyen, J.; Smolders, E.
Identification of hydraulic transport processes and diffuse nutrient pathways with natural and applied tracers

Gooddy, D.C.; Lapworth, D.J.; Harrison, I.; Kim, A.W.; Lapworth, D.J.; Harrison, I.; Kim, A.W.
Tracer tests in vertical groundwater circulation flow fields

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

13:45–14:00; EGU2007-A-08742; HS8-1MO3O-005
Rousseau-Gueutin, P.; Gonçalves, J.; Cruchaudet, M.; Altmann, S.; Violette, S.
Using stable isotope analyses (δ18O) to characterise the water-air flow transport in the vadose zone of geolocial carbonate formation from Radon-222

14:00–14:15; EGU2007-A-08790; HS8-1MO3O-006
Tracer tests in vertical groundwater circulation flow fields through dual porosity aquifers

14:15–14:30; EGU2007-A-01239; HS8-1MO4P-0171
Cucchi, F.; Treu, E.; Zini, L.
Using stable isotope analyses (δ18O) and geochemistry monitoring of mountain springs (Friuli Venezia Giulia, Northern Italy)

14:30–14:45; EGU2007-A-09734; HS8-1MO3O-007
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-008
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
A0179; EGU2007-A-01715; HS8-1MO4P-0179
Ruoff, 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.; Masu, 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.
87Sr/86Sr, 18O, 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.; Ihniger, 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 to two karst systems, in Southern Switzerland

A0185; EGU2007-A-06697; HS8-1MO4P-0185
Loisy, C.; Franceschi, M.; Cerepi, A.; Mao, LS
Geochemistry and hydrogeochemical modeling of the unsaturated zone of geologic 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
Meeting Programme

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
Sumner, W.; Weidl, A.
Technical aspects on sediment monitoring crossing international borders

A0199; EGU2007-A-08250; HS20-1MO4P-0199
Gallart, E.; 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
Liebault, 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-Conveners: Westrich, B., Owens, P.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 15:30–17:00

11:00–11:15; EGU2007-A-09173; HS24-1MO2O-0003
Mobilisation of sediment-associated Pb from historical smelting and milling sites on the River Sheaf, Sheffield, UK

11:45–12:00; EGU2007-A-02728; HS24-1MO2O-0006
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
HS33 Monitoring network design and new instrumentation in hydrology
Convener: Borga, M.
Co-Conveners(s): Grathwohl, P.
Lecture Room 28 (B)
Chairperson: BALABANIS P.
Volzt, 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 Directories
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.
Maximizing 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.
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.; Battle 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 Tümpeling, W.
Transport of suspended particulate matter during flood events: The importance of the monitoring strategy

END OF SESSION
Magnetism, Palaeomagnetism, Rock Physics & Geomaterials

MPRG03 Paleomagnetism in orogenic systems (co-listed in TS)

Convener: besse, j.
Co-Conveners: 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.

13:30–13:45; EGU2007-A-00958; MPRG03-1MO3O-001

Magnetostratigraphy of Eocene syntectonic sediments in the Balzce anticline (southern Pyrenees): laying the foundations for 3D & 4D reconstructions.

13:45–14:00; EGU2007-A-04408; MPRG03-1MO3O-002

Gilder, S.; Chen, Y.; Charrueu, J.
Paleomagnetic study of Egyptian crystalline rocks to better understand the geologic evolution of Egypt

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.
Orogenal 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
Palaemagnetism of Permain 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; Abrajevitx, 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.; Mesi, B.L.; Polat, A.; Akpınar, 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

Puyo, E. L.
Diachronous rotational movement along the Southwestern Pyrenean thrust front

17:00 END OF SESSION
MPRG15 The role of fluids in faults and fracture zones - mechanical aspects

Conveners: Baud, P.
Co-Conveners: 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)

Faulting related initiation and growth of compaction localization in porous sedimentary rocks (solicited)

Hydraulic imaging of faults and fractures using a predictive statistical reservoir model

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 - transport aspects

Conveners: Schubnel, A.
Co-Conveners: Fortin, J., Benson, P.
Lecture Room 34
Chairperson: N.N.

Slip on ‘weak’ faults by the rotation of regional stress in the crust – the vein record of coseismic loading and postseismic stress relaxation (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)

Earthquake migration within a normal fault and implications on rock permeability

Fault zone permeabilities over geological timescales: constraints from sedimentary basins (solicited)
Meeting Programme

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
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
Experimental initiation of fluid venting structures in unconsolidated granular and cohesive sediments

A0240; EGU2007-A-05500; MPRG16-1MO3P-0240
Telenga, K.; Stückbert, H.
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
Gebrumichael, 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
Vilariini, G.; Krajewski, W.F.
Detailed evaluation of the research-version of TMPA three-hourly 0.25° × 0.25° 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.; Koening, 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
Lim, W.; Machado, L.; Morales, C.; Viltard, N.; Angelis, C.
Rainfall sensitivity analyses for the HSB sounder during Dry-to-Wet/AMCLBA 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
Thai Mai, Dang
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 Assessilimating 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
Scharren, K.; Spik, O.; Mayer, Ch.; Münzer, U.; Dingwell, D.B.
Jökulhaups 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
Grieger, J.; Alessandrini, S.; Evangelisti, M.; Gommes, 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.; Bjerklev, D.; Brasswell, R.
Surveying and Monitoring River Systems from Satellite Platforms

XY0310: EGU2007-A-10018; NH1.01-1MO5P-0310
Greece, 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; NH1.03-1MO1O-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; NH1.03-1MO1O-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; NH1.03-1MO1O-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; NH1.03-1MO1O-004
Funatsu, B.; Claud, C.; Chaboureau, 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; NH1.03-1MO1O-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; NH1.03-1MO1O-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; NH1.03-1MO2O-001
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
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-Bojita, 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
Thuering, 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
Orlowski, 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.; Spitikotopoulos, 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.L.; Giberons-Baüena, J.; Egozcue, J.I.
The use of Compositional Data to classifyfate 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.L.; Egozcue, J.J.
Scale and evaluation of a Poisson-GPD model
XY0332; EGU2007-A-10111; NH1.03-1MO5P-0332
Fosumpaur, P.; Holecek, M.; Nachazel, K.
Modelling of synthetic rainfall-runoff flood patterns
XY0333; EGU2007-A-10140; NH1.03-1MO5P-0333
Loukas, A.; Vasilides, L.; Tzabiras, J.; Zanis, P.
Downscaling of monthly precipitation and temperature for drought assessment

XY0318; EGU2007-A-03525; NH1.03-1MO5P-0318
Pinto, J.G.; Neuhaus, C.P.; Reiers, 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

XY0317; EGU2007-A-02363; NH1.03-1MO5P-0314
Casanova, C.
Operational cloud classification for the Iberian Peninsula using Meteosat-8 and Aqua-Airs image fusion
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.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00

Chairperson: ARA TTANO, 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; Ò 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

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.; Franzì, 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.; Ribieìe, M.; Peeì, D.; Majes, B.
Geotechnical Investigations and Measurements on the Gradiìe€e Landslide, Š Slovenia
XY0342; EGU2007-A-07009; NH3.01-1MO5P-0342
Gambillara, R.; Centurini, A.; Ghirotti, M.; Martin, S.
Geomechanical characterisation of Liro and Livò 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.; Baldò, 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
Meeting Programme

NH3.03 Multidisciplinary monitoring, characterization and early warning projects on large landslides

Convenor: Blikra, L.
Co-Conveners: 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
Krahnge, L.K.; Gerhardsen, AG
Aknest/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
Loviisolo, M.; Foglino, F; Blikra, L.H.
DMS monitoring for early warning at the Åknes 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.; Gill, J.A.
Continuous control of slow movements in landslides

15:00 COFFEE BREAK

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
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.; Peh, 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 / geometics approach to understanding the movement of a large, complex slowly moving landslide

16:45–17:00; EGU2007-A-08806; NH3.03-1MO4O-006
Bart, 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

Convenor: Blikra, L.
Co-Conveners: 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
Vilimek, 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-05152; 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 years period: results from the “La Clapière” slope (French south Alps, France). (cancelled)

XY0356; EGU2007-A-03945; NH3.03-1MO5P-0356
Gruber, A.; Retiner, J. M.
Dating of mass movements by rock glaciers: Examples from the Eastern Alps
XY0357; EGU2007-A-08248; NH3.03-1MO5P-0357
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 rockavalanche (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
Dehs, 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.; Teleca, L.; Calice, G.; Pergola, N.; Tramutoli, V.
GRID technologies to remotely control distributed sensors for 4d geoelectrical tomography: first results in landslide monitoring

XY0368; EGU2007-A-03329; NH8.01/NP4.04-1MO10-002
Zaliapin, I.; Ghil, M.
A differential delay model of ENSO variability: quantitative predictability and structural instability

XY0369; EGU2007-A-03760; NH8.01/NP4.04-1MO10-003
Mistre, O.; Hallegatte, S.
Predictors of extreme hurricane intensities over the North Atlantic

XY0370; EGU2007-A-07660; NH8.01/NP4.04-1MO10-005
Berecz, A.; Naveau, P.; Vrac, M.; Friederichs, P.
On the derivation of fundamental probability distributions for extreme precipitation

XY0371; EGU2007-A-06806; NH8.01/NP4.04-1MO10-006
Bernacchia, A.; Naveau, P.
Detecting anomalous spatial patterns with the cumulative 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, rockfalls 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
Byrinda, S.; Shebalin, P.; Narteau, C.; Le Mouël, 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
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 (Mw>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 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.; Pizzolato, 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

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

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

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 WAEL, J.

13:30–13:45; EGU2007-A-01133; NH8.03-1MO3O-001
Galve, J.P.; Bonachea, J.; Remondo, J.; Gutierrez, 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.; Gutierrez, 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
Kauffmann, 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
15:30–15:45; EGU2007-A-04614; NH8.03-1MO4O-001
van Beynen, P.; Matsuck, 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 Boljunivica 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
Poemio, 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

17:00 END OF SESSION
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.; Yeheihi, Y.; Bein, A.; Crouvi, O.; Baer, G.; Shitivelman, 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.; Bruzzone, 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.; Middelmann, 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

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
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
Tsunami modelling with unstructured grids (solicited)

11:15–11:30; EGU2007-A-03790; NH11.04-1MO2O-004
MEISSNER, C.; SCHADLER, 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

15:00 COFFEE BREAK

Chairperson: DI BALDASSARRE, G.

15:30–15:45; EGU2007-A-11176; NH11.04-1MO4O-001
MUZY, A.; INOCCIENI, 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.; SIRKOULIS, 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
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 quasi-quantitative risk as Appraisal of damage and quasi-quantitative risk assessment in environmental disaster.

16:30–17:00; EGU2007-A-03297; NH11.04-1MO4O-005
BONAFDE, 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
Abbuzzeze, J.M.; Salmari, D.; Tamagnini, C.
Finite element modelling of debris flow propagation

XY0419; EGU2007-A-00611; NH11.04-1MO5P-0419
LIU, C.N.; Wu, C.C.
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
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.; Zdrov, 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.; Calcatera, D.; Parise, M.
Spatially-distributed landslide susceptibility assessment in the Munocene catchment, Calabria, Italy

XY0427; EGU2007-A-03207; NH11.04-1MO5P-0427
Stancalci, G.; Craciunescu, V.; Flueraru, 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 Santalo, 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 Abderrazak, 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.; Iriagaray, 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
Ciraudo, 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.; Lupiano, 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 Baghara-Scilla coastal sector (Calabria, Southern Italy).

XY0437; EGU2007-A-04603; NH11.04-1MO5P-0437
Suleiman, E.; Hansen, R.
Numerical modeling of submarine landslide-generated tsunamis for Alaska tsunami hazard assessment

XY0438; EGU2007-A-04955; NH11.04-1MO5P-0438
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.; Heggel, 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
Mastrorenzo, 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
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.; Ippolito, 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 Riftutional and mapping at different bands of electromagnetic spectrum

XY0448; EGU2007-A-09602; NH11.04-1MO5P-0448
Crosta, G.B.; Hungor, 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
The sediment carrying capacity in the medium flood river channel of Lower Yellow River

A cellular automaton for the factor of safety field in landslides modeling

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): Dijkstra, H., Crommelin, D.
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
Yeh, S.-W.; Kirtman, B.
Tropical internal atmospheric variability and ENSO
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-02539; NP2.01-1MO3O-005
Franzke, C.; Crommelin, D.T.; Fischer, A.; Majda, A.J.
A Hidden Markov Model perspective on regimes and metastability in atmospheric flow
14:45–15:00; EGU2007-A-01996; NP2.01-1MO3O-006
Weisheimer, A.; Doblas-Reyes, F.J.; Palmer, T.N.; Berner, J.
Seasonal-to-decadal probabilistic forecasts in the ENSEMBLES project (solicited)
15:00–15:15; EGU2007-A-08600; NP2.01-1MO3O-007
Swanson, K.
Planetary-scale organization of atmospheric wave/mean flow interaction (solicited)
15:15–15:30; EGU2007-A-05947; NP2.01-1MO3O-008
Primeau, F.
Elongation and contraction of the western boundary current extension in a shallow-water model: a bifurcation analysis (solicited)
15:30–15:45; EGU2007-A-09787; NP2.01-1MO3O-009
Ortiz Beviá, M.J.; Alvarez García, F.J.; Cabos Narváez, W.D.
Changes in ENSO predictability in IPCC coupled climate simulations
15:45–16:00; EGU2007-A-03177; NP2.01-1MO3O-010
Weisheimer, A.; Doblas-Reyes, F.J.; Palmer, T.N.; Berner, J.
Seasonal-to-decadal probabilistic forecasts in the ENSEMBLES project (solicited)
16:00–16:15; EGU2007-A-08409; NP2.01-1MO3O-011
Uttieri, M.; Cianelli, D.; Strickler, J.R.; Zambianchi, E.
The relationship between fractal dimension and encounters in three dimensional trajectories

NP3.01 Scale, scaling and nonlinear variability in aquatic biogeoecosystems (co-listed in BG & OS)
Convener: Schmitt, F.
Co-Convener(s): Nikora, V.
Lecture Room 5
Chairperson: Nikora, V.
8:30–8:45; EGU2007-A-00483; NP3.01-1MO1O-001
Uttieri, M.; Cianelli, D.; Strickler, J.R.; Zambianchi, E.
The relationship between fractal dimension and encounters in three dimensional trajectories

17:00 END OF SESSION
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)

Chairperson: Lovejoy, S.
Co-Convener(s): Tuck, A., Falkovich, G., Barros, A.
Lecture Room 22

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-08188; NP3.03-1MO3O-001
Rinaldo, A.
Scaling in ecosystems and the linkage of macroecological laws (solicited)

10:45–11:00; EGU2007-A-08346; NP3.03-1MO3O-002
Schaake, J
Preprocessing atmospheric precipitation forecasts to produce ensemble forcing for US NWS hydrologic forecasts

11:00–11:15; EGU2007-A-10584; NP3.03-1MO3O-003
Ngan, K.; Bartello, P.; Straub, D.N.
Dissipation of synoptic-scale flow by small-scale turbulence

11:15–11:30; EGU2007-A-10529; NP3.03-1MO3O-004
Weger, N.; Lehning, M.; Clifton, A
Upscaling wind tunnel observation of drifting snow sublimation to the mountain range scale

11:30–11:45; 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

11:45–12:00; EGU2007-A-05855; NP3.03-1MO3O-006
Warner, T.; Hahmann, A; Rostkier-Edelstein, D; Swerdlin, S; Vandenberghhe, F
The use of the MM5 and WRF models for climate downscaling

12:00 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
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; OS1-1MO1O-007
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.; Hütter, S.
Observed and modeled MOC related flow into the Caribbean

12:00 LUNCH BREAK

Chairperson: N.N.

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.; Jungclaus, 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-07116; 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
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
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
Meeting Programme

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.

16:15–16:30; EGU2007-A-06144; OS1-1MO4O-004
Guemas, V.; Salas-Mélia, 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 Climber 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.; Jungclaus, 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
Wåhlin, A. K.; Cenèse, 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-Núez, 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.; Ballabraga, J.; García-Ladona, E.; Kalaroni, S.; Font, J.
Argo observations in support of SSS modeling efforts in the perspective of SMOS data exploitation
OS3 Ocean Tracers and Anthropogenic CO2 (co-listed in BG & CL) – Posters

Convener: Schlosser, P.
Co-Conveners: 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 isopycnic 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 30°S

XY0510; EGU2007-A-05973; OS3-1MO5P-0510
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.; Giovanello, G.; Ravegnani, F.; Giglio, F.
Growth-rate of atmospheric CO2 and δ13C 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.; Zemmelink, 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.

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
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-Conveners: 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
Soltillo, 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
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

XY0527; EGU2007-A-09384; OS4-1MO5P-0527
On the use of SF6 for estimation of anthropogenic CO2 in the upper ocean.

XY0528; EGU2007-A-09979; OS4-1MO5P-0528
Assessing the quality of a pre-operational model for the portuguese coast
OS8 Variability in the Southern Ocean (co-listed AS,CL,BG,CR) – Posters

Convenor: Provost, C.
Co-Conveners: 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

XY0552; EGU2007-A-03608; OS8-1MO5P-0552
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
Modeling Antarctic krill (Euphausia superba) development and circulation

XY0554; EGU2007-A-08193; OS8-1MO5P-0554
Fahrbach, E.; Boel, O.; Hoppema, M.; Klatt, O.; Roehrd, G.; Schröder, M.; Wositzi, 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.; Becquervot, 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.; Omen, S.
Bottom pressure and circulation in the South Atlantic

XY0559; EGU2007-A-08587; 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 sub-tropical fronts

XY0565; EGU2007-A-05286; OS8-1MO5P-0565
Klepikov, A.; Andriki, 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

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
Dulieae, 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-Almeaunea, F.; García-Lafuen, J.; Sánchez, J.C.
Vertical structure of tidal currents over Esparat and Camarinal sills, Strait of Gibraltar

XY0572; EGU2007-A-02220; OS9-1MO5P-0572
Criado-Almeaunea, F.; Sánchez-Román, A.; Del Río Vera, J.; García-Lafuen, J.; Sánchez, J.C.
Steric and mass-induced Mediterranean sea level trends from 15 years of altimetry data

XY0573; EGU2007-A-02937; OS9-1MO5P-0573
Lovato, T.; Androssov, A.; Fieca, 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-Lafuen, 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.; Lefevre, j.; Quefeulou, p.; Ben-tamy, a.B.
Impact of operational oceanography on wave modelling in the Mediterranean Sea

XY0579; EGU2007-A-04924; OS9-1MO5P-0579
Censi, P.; Larocca, D.; Sprovier, M.; Placenti, F.; 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 GAVTOS project

XY0581; EGU2007-A-05482; OS9-1MO5P-0581
Merckelbach, L.; Smeed, D.; Testor, F.
Observing deep ocean convection with gliders
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.; Miserocchi, 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

PS1.4 Experimental Planetology - Space simulations in laboratory
Convener: Colangeli, L.
Co-Conveners(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
Ferris, F.; Giacomuzzo, C.; Pavarini, 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

Convener: 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
Usowicz, B.; Lipiec, J.; Usowicz, 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.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-Conveners(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-Conveners(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
**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

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

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 as inferred from visible-near-infrared spectroscopy by OMEGA/Mars Express

**11:00–11:15:** EGU2007-A-09342; PS2.2-1MO2O-004

Mineralogy variations across Syrtis Major and surroundings as inferred from visible-near-infrared spectroscopy by OMEGA/Mars Express

**11:15–11:30:** 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

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

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

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.; Fouquet, 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
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
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 Ionsphere using Mars Surface Radar Echo

17:00 COFFEE BREAK

Chairperson: SAFAEINILI, A.

17:30–17:45; EGU2007-A-09454; PS2.2-1MO5O-001
Correlation between third layer formation in the Martian ionsphere and meteor streams at Mars

17:45–18:00; EGU2007-A-03285; PS2.2-1MO5O-002
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, RLJ; 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.J.; 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.; Bouger, 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
Matieszvili, 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.; Lilensten, 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
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.; Hinson, D.
Transient waves in the Martian atmosphere from assimilation of MGS/TES data

16:15–16:30; EGU2007-A-02232; PS2.3-1MO4O-004
Mateshvili, 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.

16:30–16:45; EGU2007-A-09218; PS2.3-1MO4O-005
Lewis, S. R.; Montabone, L.; Read, P. L.
Supercold pockets in the Martian mesosphere

16:45–17:00; EGU2007-A-06167; PS2.3-1MO4O-006
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

17:00 END OF SESSION
PS2.3 Atmospheres of terrestrial planets – Posters

Convener: Markiewicz, W.
Co-Conveners: 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
Kochmasov, 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; Kuklikov, 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
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 Olimpus

XY0613; EGU2007-A-03782; PS2.3-1MO2P-0613
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

PS2.5 Spectroscopy and Radiative Transfer in Planetary Atmospheres

Convener: Martin-Torres, J.
Co-Conveners: Crisp, D., Flaud, J., Rothman, L., Mlynczak, M.
Lecture Room 8
Chairperson: J. MARTIN-TORRES & J-M. FLAUD

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.; Bénian, Y.; Jolly, A.; Ferradaz, T.; Guillen, J.-C.; Raulin, F.; Schwill, 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
Quintero, A; Falcon, N
Lightning Generation in Titan due to the Electrical Self-polarization Properties of Methane

10:00 COFFEE BREAK

Chairperson: L. ROTHMAN & M. MLYNCZAK

10:30–10:45; EGU2007-A-09812; PS2.5-1MO1O-001
Halthore, R. N.
An update on the "excess" or the "anomalous" absorption problem (solicited)

10:45–11:00; EGU2007-A-00234; PS2.5-1MO1O-002
Flaud, J.-M.
Laboratory (C2H6) and terrestrial (NO+) IR spectroscopy (solicited)

11:00–11:15; EGU2007-A-01799; PS2.5-1MO1O-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-00181; PS2.5-1MO1O-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; PS2.5-1MO1O-005
Rinsland, C.
ACE (Atmospheric Chemistry Experiment) Measurements of the upper troposphere and stratosphere (solicited)

11:45–12:00; EGU2007-A-10104; PS2.5-1MO1O-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 – Posters

Convener: Martin-Torres, J.
Co-Conveners(s): Crisp, D., Flaud, J., Rothman, L., Mlynczak, 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(a1Dg, v) and O2(b1Sg, v) in the Earth middle atmosphere. Retrieval of the ozone concentration altitude profile from the intensities of emissions at 1.27 vm 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
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.; Mlynczak, 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.; Herrmans, C.; Jenouvrier, A.; Vandaële, A.C.; Carleer, M.
HDO and D2O line parameters by Fourier Transform Infrared Spectroscopy: The 8800-10800 cm-1 spectral region

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.; Oroseti, R.; Coradin, A.; OB.
Kuiper-belt objects and 26AI

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-01057; 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
Coradin, A.; Ammannito, F.; Capacci, F.; Capria, M.T.; De Sanctis, M.C.; Filacchione, G.; Piccioni, G.; Dami, M.; Barbus, A.; Russell, C.T.
Imaging spectroscopy of millibillillie: 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
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, 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, H.-W.
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.; Bharadwaj, A.; De Sanctis, M.C.; Mazzotta Epifani, R.; Kuleshova, V.A.; Yankovsky, V.A.; Kuleshova, V.A.
Study of C2N2 in a cometary coma

PS4 Small Bodies and Dust – Posters

Convener: Krueger, H.
Co-Conveners(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.

XY0640: EGU2007-A-04436; PS4-1MO2P-0640
Barthelemy, M.; Zender, J.; Heath, D.; Vazquez, J.L.; Wirth, K.; Mauand, N.; Ortiz, I.; Dowson, J.; Arvset, C.; Parilla, E.
The ROSETTA data inside the Planetary Science Archive
Circulation dynamo in complex plasma

Melt Structures in Comets

The large particle component of the dust from comet 67P/Churyumov-Gerasimenko

Laboratory calibration of Rosetta/COSIMA: preparation for comet 67P/Churyumov-Gerasimenkov

Fluorescence Model of Water Hot-Bands in Comets

Modelled Solar Wind and Magnetospheric Ion Impact on Mercury’s Surface in response to elevated, prolonged, solar activity in December, 2006

Locations of the plasma boundaries at Venus - Venus Express ASPERA-4 observations

Photo Electron Boundaries at Mars and Venus

A general shape and ion contents of the wakes behind Mars and Venus

For some TV meteors in 2002

Sources of the Zodiacal Cloud

Foreshock cavities and ULF waves

The quasi-perpendicular bow shock as a temporal barrier and accelerator of magnetospheric particles

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.
Meeting Programme

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
Israilevich, 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.; Thomasen, 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
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
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
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 the Outer Magnetosphere of the Saturn

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
On the charged particle environment of Titan during the T9 flyby

XY0685; EGU2007-A-08316; PS5-1MO2P-0685
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
3D multispecies hybrid simulations of Titan’s highly variable plasma environment- Comparison with Cassini MAG data

XY0688; EGU2007-A-04507; PS5-1MO2P-0688
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.; T. Motschmann, U.; Glassmeier, K. H.; Bertucci, C.; Dougherty, M. K.
Electron data analysis of Saturn’s ionosphere during the T9 flyby

XY0690; EGU2007-A-00109; PS5-1MO2P-0690
Krydyk, V.
Particles dynamics and their non-thermal radiation in a 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
Tsoulias, 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
SM3 Techniques of near-surface seismic and georadar imaging – Posters

Convener: Nielsen, L.
Co-Conveners(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, I.; Mateo, MA; Lo Iacono, C; Gracia, 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 Limanete/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, I.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

SM4 Computational wave propagation

Convener: Stupazzini, M.
Co-Conveners(s): Festa, G.
Lecture Room 26
Chairperson: N.N.

13:30–13:45; EGU2007-A-09911; SM4-1MO3O-001
Martin, R.; Komatitsch, D.; Ezziaini, 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
Rabinowicz, 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-Conveners: Festa, G.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
Posters 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.; Baruq, H.; Duquet, B.; Pratt, F.

A0259; EGU2007-A-00475; SM4-1MO5P-0259
Malysky, D.; Mujla, O.; Pak, R.; Kozlovskiy, E.
Recent modeling of seismic waves in layered media.

A0260; EGU2007-A-04250; SM4-1MO5P-0260
Yedin, M.; Seymon, 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 – Posters

Convener: Wegler, U.
Co-Conveners: Korn, M., Margerin, L., Roux, P.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 13:30–15:00
Posters Area Hall A
Chairperson: N.N.
A0267; EGU2007-A-04988; SM5-1MO3P-0267
Krasnoschekov, D.N.; Kuzik, P.B.; Ovtchinnikov, V.M.
PKiKP coda features at precritical distances

A0268; EGU2007-A-10593; SM5-1MO3P-0268
Ruijgrok, E.; Campman, X.; Draganov, D.; Wapenaar, K.; Rondenay, S.
Application of seismic interferometry to teleseismic array data

A0269; EGU2007-A-03839; 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-06475; 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-00882; 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
SM7 Testing Current Approaches to Inversion for Earth Structure and Earthquake Sources: Resolution, Robustness and Reliability

Convener: Maupin, V.
Co-Conveners: Mai, P., Ampuero, J.
Display Time: Monday, 08:00–19:30
Display Area: Monday, 08:00–19:30
Poster Area Hall A
Chairperson: N.N.

12:00 END OF SESSION
SM16 New approaches to seismological data mining and real time seismology

Conveners: Rietbrock, A.
Co-Conveners(s): Ohrnberger, M.
Lecture Room 33
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.; Michelin, 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.; Quintilliani, M.; Michelin, 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

Conveners: Rietbrock, A.
Co-Conveners(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
Nippress, 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
SeisComp3 - automatic and interactive real time data processing

Soil System Sciences

SSS2 Soil as a record of the past

Conveners: Carnicelli, S.
Co-Conveners(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.; Maginava, 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

Conveners: Carnicelli, S.
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.; Drai, 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.
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 recrystallization of soil carbonates

A0311; EGU2007-A-05549; SSS2-1MO5P-0311
Pampura, T.; Dembik, 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
Komoróczi, Z.; Székely, B.; Molnár, G.; Catt, L.; Booth, A.; Dövényi, P.
Multimethod geophysical study of anomalous light-grey stripes in Quaternary sediments revealed by aerial photographic

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

SSS10 3D Visualization and Quantification of Soil Pore Geometries (co-listed in HS)

Conveners: Peth, S.
Co-Conveners: 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.
A0315; EGU2007-A-06522; SSS2-1MO5P-0315
Ciampalini, R.; Benvenuti, M.; Carnicelli, S.
Unconformities, surfaces and soils: integrating soil-, morpho- and sedimentary stratigraphy

END OF SESSION

SSS10 3D Visualization and Quantification of Soil Pore Geometries (co-listed in HS) – Posters

Conveners: Peth, S.
Co-Conveners: 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; SSS10-1MO2O-0005
Kulenkampff, J.; Richter, M.; Gründig, M.; Seese, A.
Application of X-ray computed tomography for the visualization of the soil microstructure and soil organic matter

A0317; EGU2007-A-11349; SSS10-1MO2O-0012
Favretto, S.; Chenna, G.
TOMOLAB: a new X-ray microtomography facility for geosciences applications

A0318; EGU2007-A-11298; SSS10-1MO2O-0020
Schevtzova, E.; Pustovoytov, K.
Application of X-ray computed tomography for the visualization of soil microstructure and soil organic matter

11:00–11:15; EGU2007-A-08186; SSS10-1MO2O-003
Kulenkampff, J.; Richter, M.; Gründig, M.; Seese, A.
Quantitative morphology of soil porosity based on X-ray tomography

11:15–11:30; EGU2007-A-10901; SSS10-1MO2O-004
Mele, G.; Kaestner, A.; Terrible, F.
Water distribution in and between soil aggregates: X-ray tomography and modelling

12:00 END OF SESSION
Meeting Programme

A0319; EGU2007-A-11020; SSS10-1MO5P-0319
Kuka, K.; Weller, U.; Vogel, H.J.; Franke, 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.
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 Pe-S relationship for two-phase flow in 3D heterogeneous porous media: experiment and modeling

A0324; EGU2007-A-03609; SSS12-1MO5P-0324
Stumpf, 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.; Šimůnek, J.; Jarvis, N.; van Genuchten, M.
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: experimental investigations in a specific laboratory soil column
A0333; EGU2007-A-11275; SS12-1MO5P-0333
Braudau, E.; Salahat, M.; Mohtar, E.H.; Najim, M.A.
Soil water potential: measurement and modeling of the
tensiometric curve

A0334; EGU2007-A-03518; SS12-1MO5P-0334
Kutleč, M.; Jendele, L.; Krejča, M.
Comparison of empirical, semi-empirical and physically
based models of soil hydraulic functions

A0335; EGU2007-A-05905; SS12-1MO5P-0335
Deb, S. K.; Miyazaki, T.; Kojima, M.
The diversion capacity of curved-shape capillary barrier
interface

A0336; EGU2007-A-01539; SS12-1MO5P-0336
Hincapié, I.; Fassler, J.; Vogt, P.; Germann, P.
Rivulet approach to preferential infiltration in a soil column

A0337; EGU2007-A-03726; SS12-1MO5P-0337
Rajkai, RK; Fodor, FN
Compaction effect on soil hydraulic conductivity

A0338; EGU2007-A-03743; SS12-1MO5P-0338
Are redox-patterns of Stagnosol subsoils related to preferen-
tial flow paths?

A0339; EGU2007-A-10595; SS12-1MO5P-0339
Trinks, S.; Stoffregen, H.; Wessolek, G.
Modelling the heterogeneity of artificial debris layers of
urban soils

A0340; EGU2007-A-11276; SS12-1MO5P-0340
Ghanbarian, B.; Liqhat, A.M.
Prediction soil water retention curve from soil particle-size
analysis using fractal geometry

A0341; EGU2007-A-01819; SS12-1MO5P-0341
Skierucha, S
Temperature correction of TDR determined soil water
content values

A0342; EGU2007-A-02696; SS12-1MO5P-0342
Lehmann, P.; Shokri, N.; Vontobel, P.; Or, D.
Preferential evaporation in the presence of textural contrasts

A0343 Preferenceal 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): Bächler, 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
Pavan, E.V.; Buechner, J.; Fraenz, M.; Korth, A.; Forma-
con, 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 mecha-
nism 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-01769; ST2/PS5.2-1MO4P-0706
Faganello, M.; Califano, F.; Pegoraro, F.
Two Fluid collisionless simulations on the Kelvin-
Helmholtz instability and vortex induced inertial reconnec-
tion in the external region of the magnetotail

XY0707; EGU2007-A-01769; ST2/PS5.2-1MO4P-0707
Kostomarov, D.P.; Kostomarov, D.P.
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
Podgorny, A. I.; Podgorny, I. M.; Meshalkina, N. S.
MHD Simulation of Magnetic Field Evolution in Preflare State above the Active Region AR 0365

XY0714; EGU2007-A-04512; ST2/PS5.2-1MO4P-0714
Araneda, J.; Marsch, E.; Viñas, A.
Collisionless Damping of Parametrically Unstable Alfven 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.; Dobreva, P.; Marcucci, M.F.; Coco, I.; Savin, S.
Comparison of Numerical Modelling and Cluster Observations of Magnetosheath Flow near the Cusp

XY0720; EGU2007-A-10248; ST2/PS5.2-1MO4P-0720
Ferenicz, O.E.; Steinbach, P.; Ferenicz, 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

ST7 Open session on the magnetosphere (including Hannes Alfén Medal Lecture) – Posters

Convener: Milan, S.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 13:30–15:00
Poster Area Hall X/Y
Chairperson: N.N.

XY0722; EGU2007-A-00099; ST7-1MO3P-0722
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.;<br />
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.
Alfven ship waves: emission of ULF waves by substorm injected particles

XY0728; EGU2007-A-01965; ST7-1MO3P-0728
Paloccchia, 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
Clauer, K.
Two-point observations of magnetosheath fluctuations

XY0734; EGU2007-A-04090; ST7-1MO3P-0734
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
The characteristics of thin current sheets in the magnetosheath

Retinò, A.; Buchert, S.; Hamrin, M.

XY0739; EGU2007-A-04753; ST7-1MO3P-0739
Shue, J.-H.; Ieda, A.; Lui, ATV; Parks, G. K.; Mukai, T.
Two classes of earthward plasma sheet fast flows

XY0740; EGU2007-A-04779; ST7-1MO3P-0740
Erikkson, T.; Blomberg, I.; Schaefer, S.; Glassmeier, K.-H.
Sunward propagating Pc5 wave observed in the post-midnight magnetosheath

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.; Tserkovnikov, 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
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.; R\’eme, H.
Properties of magnetic structures within the quasi-parallel shock: evidence for refraction

XY0751; EGU2007-A-06295; ST7-1MO3P-0751
De Michielis, 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; Ivecenko, 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
Block, C.; Gérard, J.-C.; Coumans, V.; Hubert, B.; Connors, M.
Global morphology of substorm growth phases observed by the IMAGE-S112 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.; Khodiatsev, 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.; Grebowsky, J.; Sibeck, D.; Mauk, B.; Fox, N.; Giles, B
Statistical correlation between GPS scintillations and HF backscatter

XY0762; EGU2007-A-09370; ST7-1MO3P-0762
Trenchi, L.; Marcucci, M.F.; Pallocchia, G.; Bavassano Cattaneo, M. B.; Remo, 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.; Jacquey, C.; Dandouras, I.; Lucek, E. Observations of Reconnection Onset at the Magnetopause

XY0767; EGU2007-A-10718; ST7-1MO3P-0767 Brown, P.; dunlop, M.W.; balogh, A.; carr, C.; gloat, J.; Lucek, E. Calibration techniques for magnetometers implementing on-board de-spinning algorithms - filling the gaps within the Cluster dataset.


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. High resolution measurements of electron distributions in the proximity of near Earth neutral lines by Cluster


XY0773; EGU2007-A-07692; ST8-1MO4P-0773 Berthomier, M.; Berthelier, J.-J.; Fontaine, D.; Amiaud, L. Multi-point and multi-instrument – Posters: Cluster/FAST conjunctions as a tool to investigate auroral acceleration


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


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.; Lanasso, 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 Brunescu, C.; Marghitu, O.; Klecker, B.; McFadden, J. Cluster/FAST conjunctions as a tool to investigate auroral acceleration

XY0785; EGU2007-A-10673; ST8-1MO4P-0785 Vaivd, 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)


Lower hybrid waves at the terrestrial bow shock: Revisited
Krasnoselskikh, V; Yearby, K

Interactive Software for Processing and Visualizing Multi-point and Multi-Instrument Data (solicited)
XY0792; EGU2007-A-01005; ST8-1MO4P-0792
Karpachev, A.; Biktaš, L.; Maruyama, T.
Multi-satellite observations of the ionospheric structures (solicited)

Multi-scale features of aurora and electric field fluctuations at the high latitudes

Multi-satellite and ground station network observation of a substorm onset
Hamrin, M.; Börlin, N.; Rönmark, K.; Vedin, J.; Buchert, S.
Estimating time and space derivatives using GALS

Multi-scale features of aurora and electric field fluctuations at the high latitudes
Kozelov, B. V.

Transpolar ionospheric currents derived from Ørsted and from ground
Wang, H.; Ridley, A.; Ma, S.Y.; Luehr, H.
Multisatellite and ground station network observation of a substorm onset
De Keyser, J.; Darrouzet, F.; Roth, M.; Décréau, P.M.E;

Transpolar ionospheric currents derived from Ørsted and from ground
Echim, M.M.; Roth, M.; De Keyser, J.
Coupling between magnetospheric and ionospheric scales in discrete auroral arcs formation

Conjunct measurements of ULF pulsations
Clausen, L.; Yeoman, T.K.

Conjunct measurements of ULF pulsations
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., Pottelette, R.
Lecture Room 11
Chairperson: POTTELETTE, R.
18:00–18:15; EGU2007-A-04243; ST9-1MO5O-003 Hansz, J.; Schreiber, R.; Pickett, J.; de Feraud, 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.; Lébreton, J.P. First in-situ observations of strong ionospheric perturbations generated by a powerful VLF ground-based transmitter


18:45–19:00; EGU2007-A-10315; ST9-1MO5O-006 Atamanuik, B.; Volokitin, S. A. Nonlinear saturation of Farley-Buneman instability

19:00 END OF SESSION

ST10 Coupling processes of radiation belts and plasmasphere

Convener: Laako, H. Co-Conveners(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.; Witberger, 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.; Garnett, D.P.; Pickert, J.S.; Trakhtengerts, V.Y.; Demekhov, A.G.; Cornilleau-Wehrlin, N.; Daly, P.W.; Fazakerley, A. Hiss and chorus emissions; loss and source mechanisms for energetic particles (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’večr’ëau, 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


11:45–12:00; EGU2007-A-07390; ST10-1MO2O-005 Lichtenberger, J. Determination of plasmapause 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-Conveners(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. 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.; Faghih, A. Age and microfacies of the Jahrum formation, Zagros Mountains, Iran

A0352; EGU2007-A-01874; SSP1-1MO5P-0352 Steuber, T. Seasonal dynamics of a modern sabkha surface

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Meeting Programme
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.
Dettiral 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, GJ; Fantong, WY; Suh, CE; Njome, SM; Sparks, RSJ; Ayounge, 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, E.; 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 Bakhtiyari Formation at Ghilat and Garu-Charmakran Mountain+s, NW of Shiraz, Iran

A0365: EGU2007-A-06688; SSP1-1MO5P-0365
Tolosas-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
Prosko, U.; Hanebuth, T.
Holocene sedimentation in the Banc d’Arguin, Mauritania

A0369: EGU2007-A-08729; SSP1-1MO5P-0369
Lasalle, S.; Guillot, F.; Avérbuch, O.; Pellendard, P.; Deconinck, J.F.; Devleeschouwer, X.; Herbósch, A.
Volcanic origin of K-bentonite: criteria from zircons

A0370: EGU2007-A-09086; SSP1-1MO5P-0370
Mikes, T.; Tolosa-Sedelgado, R.; von Eynatten, H.
Garnet composition and provenance analysis: towards accurate source assignment of single grain analyses

A0371: EGU2007-A-09684; SSP1-1MO5P-0371
Körödy, 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 Quai-quantitative evaluation of pollution risk in an important area of the industrial site of Taranto (Southern Italy).
(canceled)

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.; Avérbuch, O.; Pellendard, P.; Deconinck, J.F.; Devleeschouwer, X.; Herbósch, 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...
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.; Narndon, 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.; Wagrreich, 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
Sunner, 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, J.L; 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

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
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
Indian Ocean Monsoon Variability recorded in Holocene High-Resolution Speleothem Records From Soqotra 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.; Spöl, C.; Kramers, J.
Early Holocene climate events recorded in fast growing stalagmites from the SE-fringe of the Alps (Austria)
**SSP22 Understanding the linkages of geosphere and biosphere evolution during Cenozoic and Mesozoic times (co-sponsored by IAS)**

**Convener:** Herrle, J.  
**Co-Conveners:** Erba, E., Weissert, H.

**Display Time:** Monday, 08:00–19:30  
**Authors in Attendance:** Monday, 15:30–17:00

**Poster Area:** Hall A

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**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

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**A0395:** EGU2007-A-08470; SSP22-1MO4P-0395  
**Parente, M.; Frijia, G.; Di Lucia, M.**  
Stepwise larger foraminifera extinction at the Cenomanian-Turonian boundary: a role for nutrients?

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**A0396:** EGU2007-A-09465; SSP22-1MO4P-0396  
**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

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**A0397:** EGU2007-A-01332; SSP22-1MO4P-0397  
**Maghfouri moghaddam, I**  
Microbiostatigraphy of the Tatbur Formation(Upper Cretaceous)of the Zagros Range

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**A0398:** EGU2007-A-02118; SSP22-1MO4P-0398  
**Forræn, D.**  
Foramol ramp evolution in different tectonic settings: examples from internal and external Cenozoic Alpine basins (Western Italy)
Tectonics and Structural Geology

TS0 Open session – Posters

Convener: Ranero, C.
Co-Conveners(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.; Madaras, 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.; Chwatel, W.
Complementary geophysical investigations revealing camouflaged tectonic structures in the Northern Burgenland (Austria)

XY0805; EGU2007-A-04841; TS0-1MO3P-0805
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.; Fusselli, C.
Rheological behaviour of the crust from Neapolitan Volcanic Zone to Apulia foreland, Southern Apennine (Italy)

XY0807; EGU2007-A-01320; TS2.1-1MO3P-0807
Peacock, D.C.P.; 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 carbonateanite grainstones, Lettomanopello 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, Violia region, central Greece

XY0812; EGU2007-A-02062; TS2.1-1MO3P-0812
Baud, P.; Vajdova, V.; Vinciguerra, S.; Wong, T.; Reuschle, T.
Compacting 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.
The effects of dolomite gouge on permeability

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.; Mazzioli, S.M.; Parente, M.P.
The impact of constitutive modeling of porous carbonate rocks on wellbore stability analysis

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.; Akviv, 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.; Grunnaalde, I.; Gedmundsson, A.
How fracture systems control fluid transport in shallow-water carbonate rocks: an example from the Gargano Peninsula, Italy

TS2.1 Faulting in carbonate rocks: new insights on deformation mechanisms, petrophysics, and fluid flow properties – Posters

Convener: Tondi, E.
Co-Conveners(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.
TS2.3 Controls on the 3D Orientation of Brittle Fractures: Integrating Theory with Field & Laboratory Measurements

Conveners: Healy, D.
Co-Conveners: 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 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
Polymodal faulting by crack or anticrack interaction (solicited)

XY0828: EGU2007-A-07884; TS2.3-1MO3P-0828
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
Oskina, D.N.; Yakovlev, F.L.; Voitenko, V.N.
Second rank fractures and 3D stress & strain 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).

XY0831: EGU2007-A-07896; TS2.4-1MO3P-0831
Enjolvy, R.; Monié, P.; Arnaud, N.; Vauzeix, A.
A comparative study of the variability of argon isotopic reactions 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 40Ar/39Ar step heating analysis

XY0833: EGU2007-A-06778; 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
**Meeting Programme**

**XY0834**: EGU2007-A-02289; TS2.4-1MO3P-0834


**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


**XY0837**: EGU2007-A-02732; TS2.4-1MO3P-0837


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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**TS3.2 Seismogenic coupling zones - state and processes**

Convenor: Krawczyk, C.

Co-Conveners: 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


**14:00–14:15**: EGU2007-A-06466; TS3.2-1MO3O-003


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


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

**Vannucci, 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**

**15:30–15:45**: EGU2007-A-09439; TS3.2-1MO4O-001


**15:45–16:00**: EGU2007-A-11527; TS3.2-1MO4O-002


**16:00–16:15**: EGU2007-A-08766; TS3.2-1MO4O-003


**16:15–16:30**: EGU2007-A-04248; TS3.2-1MO4O-004


**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**

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**TS3.3/NH4.4 Earthquake Geology (co-organized by NH)**

Convenor: Caputo, R.

Co-Conveners: Pavlides, S.

Lecture Room 5 (I)

Chairperson: CAPUTO, R.

**8:30–8:45**: EGU2007-A-01780; TS3.3/NH4.4-1MO1O-001


**8:45–9:00**: EGU2007-A-01642; TS3.3/NH4.4-1MO1O-002


**9:00–9:15**: EGU2007-A-00010; TS3.3/NH4.4-1MO1O-003


**9:15–9:30**: EGU2007-A-02560; TS3.3/NH4.4-1MO1O-004


**9:30–9:45**: EGU2007-A-01780; TS3.3/NH4.4-1MO1O-001


**9:45–9:55**: EGU2007-A-02670; TS3.3/NH4.4-1MO1O-002


**9:55–10:00**: EGU2007-A-02212; TS3.3/NH4.4-1MO1O-006

**Estrada, B.**, Clark, D.; Dentith, M.; Wyrrwoll, K. New insights on intraplate seismicity from a “tectonically stable” region in the southwest of Australia.

**10:00–10:15**: EGU2007-A-00010; TS3.3/NH4.4-1MO1O-003

**Estrada, B.**, Clark, D.; Dentith, M.; Wyrrwoll, K. New insights on intraplate seismicity from a “tectonically stable” region in the southwest of Australia.

**10:15–10:30**: EGU2007-A-02560; TS3.3/NH4.4-1MO1O-004

9:30–9:45; EGU2007-A-07854; TS3.3/NH4.4-1MO1O-005
Shafie 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
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-09802; TS4.1-1MO1O-003
Brodhag, S.; Herwegh, M.; Berger, A.; Pfifflner, A.
The role of static processes on microstructure and textures

9:15–9:30; EGU2007-A-04956; TS4.1-1MO1O-004
Trepman, 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.; Ullmeyer, 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-Azpíroz, M.; Lloyd, G.E.
Lattice preferred orientation and seismic fabric of metas- asites 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
Fusseis, 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-Conveners(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
Trepman, 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-Azpíroz, 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.; Stünitz, 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 Slötemaker, 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.; Schléder, 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.; Malthe-Sorensen, 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-Álto unit (Nevado Filaibre complex, eastern Betics)

XY0848; EGU2007-A-10220; TS4.1-1MO3P-0848
Doman, D.; Riller, U.
The importance of discontinuous deformation in the eastern Sudbury Igezne Complex, Canada.

XY0849; EGU2007-A-08773; TS4.1-1MO3P-0849
Pueyo Anchuela, Ó.; Gil Imaz, A.; Ipas Llorén, J.F.; Pocovi 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-08811; TS4.1-1MO3P-0851
Suettova, Elena; Cherniavskiy, Vladi
Mechanics of time-dependent compaction in accumulating sediments

XY0852; EGU2007-A-03547; TS4.1-1MO3P-0852
Clariana, P.; García-Sanseguardo, J.
Micro and mesostructural evidences of north-verging folds in the eastern sector of Pullares massif. Axial zone, central Pyrenees

XY0853; EGU2007-A-04438; TS4.1-1MO3P-0853
Gutiérrez, M.; García-Sanseguardo, 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.; Ulleemeyer, K.
Blastomylonites of the Paleoproterozoic Loftahammars-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: Teysier, C.
Co-Conveners(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, E; 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
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)
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: 3D analogue modelling 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.; Haunzenberger, C.A.
Two Orogens – one Shear Belt: 1Ga of repeated deformation

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.

TS8.4/GD06.1/GMVP16 Structure and Dynamics of Mid-Ocean Ridges (co-organized by GD & GMPV) – Posters

Convener: Briais, A.
Co-Conveners: 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/GMVP16-1MO3P-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/GMVP16-1MO3P-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/GMVP16-1MO3P-0874
Fournier, M.; Chamot-Rooke, N.; Fabri, 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/GMVP16-1MO4P-0875
Maia, M.
The PLURIEL cruise: insights on temporal evolution of a ridge-hotspot interaction.

XY0876; EGU2007-A-06972; TS8.4/GD06.1/GMVP16-1MO4P-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/GMVP16-1MO4P-0877
Simonov, V.A.; Kovyzin, S.V.; Shkarev, E.V.
Physico-chemical conditions of intrusive complexes forming in the Sierra-Leone Region(Central Atlantic)

XY0878; EGU2007-A-03056; TS8.4/GD06.1/GMVP16-1MO4P-0878
Godard, M.; Lagabrielle, 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/GMVP16-1MO4P-0879
Lissenberg, C.J.; Godard, M.; Lagabrielle, Y.; Alard, O.; Gréau, Y.; Harvey, J.
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/GMVP16-1MO4P-0880
Lambart, S.; Laporte, D.; Schiano, P.
Focused flow and basalt-peridotite interactions beneath mid-ocean ridges: an experimental study
TS8.5/GD06.2/GMPV17 Tracing hydrothermal circulation at Mid-ocean ridges using geochemistry, geophysics and modelling – Posters

Convener: Chavagnac, V.
Co-Conveners: 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.

XY0881: EGU2007-A-03288; TS8.4/GD06.1/GMPV16-1MO4P-0881
Dusumur, 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

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
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.
Serpentinites 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-Conveners: Trumbull, R., Uenzelmann-Neben, G., Combrinck, L., Neben, S.
Lecture Room 7
Chairperson: RITTER, O.
8:30–8:45: EGU2007-A-11178; TS10.1-1MO1O-001
Lutjeharms, J.; Swart, S.; Durgadoo, J.
Aspects of the greater Agulhas Current system (solicited)
8:45–9:00: EGU2007-A-02125; TS10.1-1MO1O-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; TS10.1-1MO1O-003
Gohl, K.; Parsieglia, N.; Uenzelmann-Neben, G.
The Agulhas-Karoo Geoscience Transect: tectonic processes along the sheared South African continental margin
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)
Fernandes, R.M.S. Combrinck, W.L.; Combrinck, 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
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-Conveners: 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 XV
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.; Krahn, G.; Reston, T.; Visbeck, M.
Seismic Reflections Within the Water Column South of South Africa: Indications for the Agulhas Retroreflection

XY0898; EGU2007-A-09841; TS10.1-1MO3P-0898
König, M.; Jakat, W.; Gohl, K.; Uenzelmann-Neben, G.
Structure and evolution of the Mozambique Ridge and Mozambique Basin

XY0899; EGU2007-A-07202; TS10.1-1MO3P-0899
Parsiegla, 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.
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
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.; Mandea, 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
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.; Hacksparser, P.; Glaesmacher, U.; Saad, A.; Hadler Neto, J.
Low-temperature rift and post-rift evolution of the southeastern 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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<td>IG – Isotopes in Geosciences: Instrumentation and Applications</td>
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<td>MPRG – Magnetism, Palaeomagnetism, Rock Physics &amp; Geomaterials</td>
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<td>NH – Natural Hazards</td>
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<td>ST – Solar-Terrestrial Sciences</td>
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<td>SSP – Stratigraphy, Sedimentology and Palaeontology</td>
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<td>SC – EGU Short Courses</td>
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<td>F – Forums</td>
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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-Conveners: Valdes, P., Lézine, A., Lohmann, G.
Lecture Room 4 (H)
Chairperson: GODDERIS, Y.

8:30–8:45; EGU2007-A-11557; US4-1TU1O-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; US4-1TU1O-002
Peltier, W.R.; Liu, Y.
A Carbon dioxide "Attractor" in the Neoproterozoic (solicited)

9:15–9:45; EGU2007-A-05267; US4-1TU1O-003
Poulson, 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; US4-1TU1O-004
Berthelin, M.; Brouin, J.; Fluteau, F.
A Permian glacial episode in Oman: palynologic study and of the Permo-Carboniferous glacilacustrine Al Khala 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; US4-1TU2O-001
Goddéris, 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; US4-1TU2O-002
Donnadieu, Y.; Goddéris, 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; US4-1TU2O-003
Buffetaut, E.
A K/T boundary climate paradox (solicited)

11:45–12:15; EGU2007-A-05395; US4-1TU2O-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
Educational Symposia

ESI GIFT Workshop: Geosciences in the City
Convener: Laj, C.
Co-Convener(s): Cifelli, F., Funiciello, 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.
Aerosol 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-00830; AS1.04-1TU3P-0004
Hatziathanasiou, 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
Comparison of satellite derived AOD values with PFR measurements in Sodankylä and Jokioinen

XY0008; EGU2007-A-06315; AS1.04-1TU3P-0008
Rezaei, Y.; Mobasher, M.R.
A fast method for removing the Aerosols from MODIS images in northern Iran

XY0009; EGU2007-A-09137; AS1.04-1TU3P-0009
Dinter, T.; von Hoyningen-Huene, W.; Kokhanovsky, A.; Burrows, J. P.; Diouiri, 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
The Atmospheric Soot Network (ASN): a resource for atmospheric modelers and experimentalists alike

XY0013; EGU2007-A-06745; AS1.04-1TU3P-0013
Bonacquisti, V.; Palmeiri, 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
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 HS$_2$SO$_4$ and HINO$_3$$_3$ in different type of cirrus clouds

XY0022; EGU2007-A-08756; AS1.04-1TU3P-0022
Mendon, 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
Neural network satellite retrievals of nocturnal stratocumulus cloud properties

Remote sensing millimeter wave measurements for retrieval of minor constituents in a cloudy atmosphere with Dinelli, B. M.; Carli, B.

Meteosat-8/SEVIRI for stratocumulus clouds. Berg, H.W.J; Boers, R.

Display Time: Tuesday, 08:00–19:30

Retrieval of cloud liquid water path retrievals from SEVIRI and MODIS

Validation of cloud liquid water path retrievals from SEVIRI and MODIS

Intercomparison of Cloud Property Retrievals from MSG-SEVIRI and MODIS

Simulation of microphysical and optical characteristics of stratocumulus clouds, using cloud optical properties

Neural network satellite retrievals of nocturnal stratocumulus cloud properties

Neural network satellite retrievals of nocturnal stratocumulus cloud properties

Banner Clouds at Mount Zugspitze in Germany

Evaluation of ground-based retrieved droplet concentration

Application of different 3D radiative flux parameterizations in the global atmospheric circulation model ECHAM 5

The impact of ice supersaturated regions and thin cirrus clouds on radiation

Optimisation of critical relative humidity over ice for cirrus cloud formation in Sundqvist parameterisation

Tests of the bulk cloud microphysics parameterizations in the detailed explicit cloud model

Simulation of microphysical and optical characteristics of frontal mixed clouds

Dynamics of cloud formation in atmosphere

Internal dynamics of cirrus clouds - some sensitivity studies

Regime Transitions due to Icecloud-Radiation Interaction in an Aquaplanet GCM

Cloud properties from AIRS

Observations of ice cloud properties from Odin-SMR

The impact of ice supersaturated regions and thin cirrus clouds on radiation

Optimization of critical relative humidity over ice for cirrus cloud formation in Sundqvist parameterisation

Tests of the bulk cloud microphysics parameterizations in the detailed explicit cloud model

Simulation of microphysical and optical characteristics of frontal mixed clouds

Dynamics of cloud formation in atmosphere

Internal dynamics of cirrus clouds - some sensitivity studies

Regime Transitions due to Icecloud-Radiation Interaction in an Aquaplanet GCM
XY0054; EGU2007-A-01305; AS1.04-1TU4P-0054
Williams, K. D.; Tsiloudis, 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.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 10:30–12:00
Poster Area Halls X/Y
Chairperson: N.N.

van Dijk, A.; van Wijnen, H.; Slaper, H.
CFC-emission, UV-exposure and skin-cancer: global scenarios for the 21st 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

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.; Mihlinevsky, 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.
Shipborne 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.; Stachelini, 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.; Stadtmann, H.; Ruhn, H.
Comparison of the facial UV exposure using electronic 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-Conveners: Gray, L.
Lecture Room 10 (E1)
Chairperson: N.N.
15:30–15:45; EGU2007-A-09932; AS1.08-ITU40-001
Bushell, A.
Modelling the quasi-biennial oscillation in the UK Met Office middle atmosphere GCM

15:45–16:00; EGU2007-A-09032; AS1.08-ITU40-002
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-ITU40-003
Bruehl, C.; Steil, B.; Roeckel, P.; Giorgetta, M.
The influence of the QBO on long-lived chemical tracers in the CCM ECHAM5/MESSy1 and in satellite data

16:15–16:30; EGU2007-A-11103; AS1.08-ITU40-004
Kilifarska, N.A.; Mukhtarov, P.
Upper Troposphere-Lower Stratosphere (UTLS) – Main Arena for the Interplay between Solar Variability and Stratospheric Winds’ QBO

16:30–16:45; EGU2007-A-08727; AS1.08-ITU40-005
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-ITU40-006
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-Conveners: 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-ITU40-007
Marine slicks due to inhomogeneous currents. Field observations.

XY0074; EGU2007-A-09836; AS1.08-ITU3P-0076
Lyapunov diffusion, tropical pipe and the QBO

XY0077; EGU2007-A-09216; AS1.08-ITU3P-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-ITU3P-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-ITU3P-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-Conveners: Wells, N.
Lecture Room 1 (G)
Chairperson: MAKIN, V., WELLS, N.
15:30–15:45; EGU2007-A-02632; AS2.02-ITU4O-001
Gulev, S.K.
Reconstruction of surface turbulent fluxes in the North Atlantic: 1880-2004

15:45–16:00; EGU2007-A-01608; AS2.02-ITU4O-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-ITU4O-003
Brusch, St.; Lehner, S.; Stellenfleth, J.-S.
Remote sensing of severe storm system

16:15–16:30; EGU2007-A-05729; AS2.02-ITU4O-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-ITU4O-005
Kudryavtsev, V.; Shirma, V.; Dulov, V.; Malinovsky, V.
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.

16:45–17:00; EGU2007-A-09761; AS2.02-ITU4O-006
Caulliez, G.; Makin, V.K.; Kudryavtsev, V.N.
On vertical structure of wind-driven sea surface currents (solicited)

17:00–17:15; EGU2007-A-09761; AS2.02-ITU4O-007
Ginis, I.; 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-ITU4O-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-Conveners: 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-ITU3P-0080
Marine slicks due to inhomogeneous currents. Field observations.
XY0081; EGU2007-A-04766; AS2.02-1TU3P-0081
Zhamsueva, G.; Zayakhinov, A.; Tsypytyov, 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
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
Wilkenfeld, 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
Dhomps, A.L.; 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

XY0092; EGU2007-A-00909; AS2.02-1TU3P-0092
Dahech, S.; Beltrando, G.
Enhancement of turbulent mixing over thermally heterogeneous surfaces

XY0093; EGU2007-A-03005; AS2.02-1TU3P-0093
Stoll, R.; Porte-Agel, F.
Performance of dynamic subgrid-scale models in large-eddy simulations of turbulent flow over two-dimensional sinusoidal hills

XY0094; EGU2007-A-09901; AS2.02-1TU3P-0094
Perov, V.; Sukoriansky, S.; Galperin, B.
Atmospheric surface layer parameterization in a weather prediction system HIRLAM

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.

XY0095; EGU2007-A-01057; AS2.02-1TU3P-0095
Esau, I.
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.; Menneveau, C.; Parlane, M. B.
Boundary condition models and large eddy simulation of pollen transport in the atmospheric boundary layer (solicited)

10:45–11:00; EGU2007-A-09966; 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-10958; AS2.03-1TU2O-004
Ovinoh, 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
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 SIRTA 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 modeling of velocity in the surface layer to develop a trajectory diaspor 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
Syarakov, 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
Kurokaw, 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
Grzychka, M.; Etling, D.; Raasch, S.
Large eddy simulation of a cold air outbreak during ARCTEX98: 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
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-Conveners: Argentini, S., Anderson, P., Heinemann, G.
Lecture Room 1 (G)
Corresponding Chairperson: NEFF, W.

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.; Pietrans, 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.; Andres, 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-11254; AS2.04-1TU3O-006
Conveners, 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-Conveners: 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-00881; AS2.04-1TU4P-0111
Grachev, A.; Persson, O.
On the factors controlling the 2-m air temperature in the Antarctic 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-02969; 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)
AS3.02 Aerosol Chemistry and Microphysics (General Session)

Convener: Kiendler-Scharr, A.
Co-Conveners: 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
In situ production of HULIS in atmospheric aerosol from the solar photolysis of small molecular weight dicarboxylic acids

14:00–14:15; EGU2007-A-01828; AS3.02-1TU3O-002
Hoffmann, M. R.; Guzman, M. I.; Colussi, A. J.
Photo-induced uptake of ozone onto humic acids film and submicron aerosols

14:15–14:30; EGU2007-A-04102; AS3.02-1TU3O-003
van Pinxteren, D.; Brüggemann, E.; Herrmann, H.
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.; Schulz, 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
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.
Source apportionment of carbonaceous aerosols with radiocarbon (solicited)

16:45–17:00; EGU2007-A-11131; AS3.02-1TU4O-005
D'Anna, B.; Jammoul, A; George, C; Stenlm, 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: Prevet, A.
Co-Conveners: Larsen, B.
Lecture Room 10 (E1)
Chairperson: N.N.

8:30–8:45; EGU2007-A-006920; AS3.09-1TU1O-001
Szidat, S; Ruff, M; Wacker, L; Perron, N; Sandradewi, J; Alfarra, MR; Prévôt, ASH; Hallquist, M; Shannigrahi, AS; Baltensperger, U
Source apportionment of carbonaceous aerosols with radiocarbon (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
Deecesari, S.; Facchini, M. C.; Fuzzi, S.; Rinaldi, M.; Mirea, 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.
AS3.11 The Tropospheric Ice Phase

Convener: Curtius, J.
Co-Conveners: 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

AS3.11 The Tropospheric Ice Phase – Posters

Convener: Curtius, J.
Co-Conveners: 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 Sulfate Particles: New Experiments in the Aerosol Chamber AIDA

XY0125; EGU2007-A-09255; AS3.11-1TU4P-0125
Oancea, A.; Focsu, 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.; Gaggeler, H. W.; Pinzer, B.; Schneebei, 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.; Immiler, 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.; Cholarton, T.; Brown, P.; Blyth, A.
Formation of ice particles in cumulus clouds in the UK

XY0130; EGU2007-A-06566; AS3.11-1TU4P-0130
Raupach, S.; Pfiffner, T.; 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.; Pütthmann, W.; Jäschke, 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.; Cholarton, 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
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 Assembly) 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.; Jäschke, W.; Nillus, B.; Stirzkozhev, 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 Bohn, 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
Salzmans, M.; Lawrence, M. G.; Phillips, V.T.; 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
Kampf, 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.; Frissius, 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.
The effects of ice-phase microphysics on tropical cyclone formation in Lokalmodell (LM) simulations

Biogeosciences

BG2.01 DOM biogeochemistry and ecosystem function: from soils to oceans (co-listed in OS)

Convener: Uhere, G.
Co-Conveners: Sondergaard, M., Battin, T., Tranvik, L.
Lecture Room 19
Chairperson: N.N.
The two contrasting carbon cycles of the Amazon River system: Rapid turnover of most organic matter versus transport of refractory remnants (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?

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.; Samija, 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 Kowalczuk, P.
The decade of observations of optical properties of Chromophoric Dissolved Organic Matter in the Baltic Sea. (solicited)

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.; Labuscher, H.; Meunier, L.; Hug, S. J.
The role of light-induced transformations of DOM for Fe(II) oxidation kinetics in aquatic systems

Ammonium photo-production in aquatic systems: synthesis and ecological significance (solicited)

Responses of auto- and heterotrophic nanoplankton to photochemical transformation of DOM

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 Dreeves, 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.)

Leaching and transformation of 14C labeled DOM in two soils under oxic and anoxic conditions

Enhanced bioavailability of dissolved organic matter after artificial soil aggregate disruption

BG0005; EGU2007-A-07502; BG2.01-1TU3P-0005 Petch, S.; Schlawski, 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, E.; 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

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-10139; BG2.01-1TU3P-0012 Labanieh, N.; Santinelli, C.
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
Mann, P.J.
Relation between organic matter and sediment along the coast of the Bay of Bengal (BOB), Bangladesh.

BG0016; EGU2007-A-01217; BG2.01-1TU3P-0016
Hashibul Islam, Md.; Mahmood, N; Rahman Chowdhry, Z
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?

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
Itekkot, 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.; Roevros, 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
Watamente, 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.; Dèllille, 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.
Sources and transport of freshwater and their influence on carbon dynamics in the Hudson Bay

15:45–16:00; EGU2007-A-00770; BG2.02-1TU4O-002
Gruber, N.; Frenzel, H.; Marchesiello, P.; McWilliams, J.C.; Nagai, T; Plattner, G-K
On the role of eddies for coastal productivity and carbon export to the open-ocean

16:00–16:15; EGU2007-A-07157; BG2.02-1TU4O-003
Harlay, J.; D’Hoop, Q.; Borges, A.V.; Suykens, K.; Van Oostende, N.; Sabbe, K.; Roevros, N.; Groom, S.; Chou, L.
Biogeochemistry of a late marginal coccolithophorid bloom in the Bay of Biscay

16:15–16:30; EGU2007-A-07743; BG2.02-1TU4O-004
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

15:45–16:00; EGU2007-A-02513; BG2.02-1TU4O-005
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)

16:00–16:15; EGU2007-A-07157; BG2.02-1TU4O-003
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.
Cadmium and phosphate in coastal Antarctic waters: is there a global relationship?
Dissolved inorganic carbon dynamics in the Gulf of Biscay (June 2006)

Variations of the partial pressure of carbon dioxide in the upper Scheldt estuary from 1993 to 2006

Preliminary results of continuous oxygen measurement above a Posidonia oceanica seagrass bed in the Bay of Calvi (Corsica)

Impact of Zostera noltii meadow cycle on iron and phosphorus dynamics in tidal mudflat (Arcachon Bay, France)

Phosphorus cycling in marine sediments off Namibia

Particle dynamics in the wake of Kerguelen Island traced by thorium isotopes (Southern Ocean, KEOPS program)

Carbon dioxide fluxes in the Benguela region

Non-lithogenic (autigenic and anthropogenic) uranium enrichments in the coastal marine sediments of the central Gulf of California

Carbon and oxygen dynamics in shelf and coastal seas: a physical-biogeochemical modelling and satellite approach

Geochemistry of sediment trace metals from both the urban and non-lithogenic forested mangroves of the Ca Mau Province (Vietnam)

Carbon dioxide fluxes across the atmosphere-ice-water interfaces in the Siberian and Alaskan shelf seas.

Carbon dioxide dynamics in the tropical Ebrié lagoon (Ivory coast)

DOC concentrations variability in the seashore zone of the Gdansk Bay, Baltic Sea

Dissolved inorganic carbon dynamics in the Gulf of Biscay

Particulate transport processes from the Tokyo Bay to the Open Ocean

Release of nitrite and ferrous iron from marine aggregates: anoxic nanozones?

Depletion of phosphorus in a shallow estuary along the Northwest African coast: from satellite data to an idealized study of the coastal upwelling ecosystem

Carbon and oxygen dynamics in shelf and coastal seas: a physical-biogeochemical modelling and satellite approach
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 scarp and canyons

BG0048: EGU2007-A-08811; BG6.03-1TU2P-0048
Deep-water oyster cliffs at La Chappelle 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.; Henriet, 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
Akmetzhanov, 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.; Khripounoff, A.; Mas, Y.
Current and turbiditic events observed in the VAR Canyon.

BG0055: EGU2007-A-09523; BG6.03-1TU2P-0055
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.; Misercroci, S.; Boldrin, A.; Gotii, M.A.; Tesi, T.
Nature and source of the organic matter collected by sediment traps in the Barì 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
Cold-Water Coral Ecosystem Functioning through Time in the Deep Sea: The example of cold-water coral carbonate mounds in the northeast Atlantic (fromIODP307 to Euro-MARC - CARBONATE)

BG0062: EGU2007-A-06418; BG6.06/NP6.09-1TU4P-0062
Schapira, M.; Seuront, L.
Role of turbulent history on phytoplankton nutrient uptake

Peters, F.; Guadayol, O.; Marra Ç, 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
Chelebus, N.; Matcik, M
Numerical simulations of the local circulation at the border between water masses with different absorption capabilities (cancelled)

Losa, S. N.; Schroeter, J.; Wright, D.
Estimating primary production in the North Atlantic
Climate: Past, Present, Future

CL21 Generality of Climate Models and their Components (co-listed in AS & NP)
Convener: Arritt, R.
Co-Conveners: Rockel, B., Williamson, D.
Lecture Room 14
Chairperson: N.N.
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
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.; Tascone, C.
Explicitly resolved mesoscale motions in high resolution global simulations
14:15–14:30; EGU2007-A-01296; CL21-1TU3O-004
Williams, K. D.; Tsilouidis, 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
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-Conveners: 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-Conveners: 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
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/CL35-1TU3O-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/CL35-1TU3O-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/CL35-1TU3O-006
Makarieva, A.M.; Gorshkov, V.G.
Biotic pump of atmospheric moisture as driver of the hydrological cycle on land (solicited)

15:00 COFFEE BREAK

Lawrence, D.M.
The diurnal cycle, convection, and the soil moisture – precipitation feedback

15:45–16:00; EGU2007-A-02157; CL22/CL35-1TU4O-003
Allieri, 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/CL35-1TU4O-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

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-03117; CL22/CL35-1TU4O-007
Kukkonen, I.T.; Safanda, J.; Cermak, V.; Kivekäs, L.
Geochemical studies and palaeoclimatic implications of the 2.5 km deep Outokumpu deep drill hole, Finland

16:45–17:00; EGU2007-A-10278; CL22/CL35-1TU4O-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
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
Mołod, A.; Salmoun, 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
Bogaert, P.W.; Teuling, A.J.; Troch, P.A.
A state-dependent parameterization for root-zone – groundwater 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.; Steiglitz, 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.; Lucascu, B.
Surface temperature variations and their frequency-dependent subsurface effects on the Romanian territory

XY0186; EGU2007-A-04310; CL22/CL35-1TU5P-0186
Dedek, P.; Safandra, 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.
Infering 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) – Posters

Convener: Wild, M.
Co-Conveners: 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**

**Russek, V.; Ohvril, H.; Teral, H.**

Multi-year Global Analysis of the Aerosol Direct Radiative Effect from Satellite TOMS Data

11:30–11:45

**XY0189; EGU2007-A-01902; CL23-1TU5P-0189**

**Wild, M.; Ohmura, A.; Makowski, K.**

Impact of global dimming and brightening on global warming

11:45–12:00

**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

12:00–12:15

**XY0191; EGU2007-A-02886; CL23-1TU5P-0191**

**Norris, J.; Wild, M.**

Solar dimming and brightening over Europe in observations and AR4 global climate models

12:15–12:30

**XY0192; EGU2007-A-03315; CL23-1TU5P-0192**

**Norris, J.; Wild, M.**

Effect of cloud cover changes on solar dimming/brightening at worldwide GEBA sites

12:30–12:45

**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 using deep convective systems

12:45–13:00

**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

13:00–13:15

**XY0195; EGU2007-A-10150; CL23-1TU5P-0195**

**AMPAS, V.; Baltas, E.; Papanichail, D.**

Sensitivity analysis of diurnal global solar radiation to meteorological parameters

13:15–13:30

**XY0196; EGU2007-A-10464; CL23-1TU5P-0196**

**Behrens, K.**

Did “dimmed” Global Radiation occur in Central Europe already 100 years ago?

13:30–13:45

**XY0197; EGU2007-A-03913; CL23-1TU5P-0197**

**Ruckstuhl, C.; Philipona, R.; Zelenka, A.; Moesch, M.**

Solar irradiance changes in Switzerland since 1981

13:45–14:00

**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

14:00–14:15

**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

14:15–14:30

**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

14:30–14:45

**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

14:45–15:00

**XY0202; EGU2007-A-03323; CL23-1TU5P-0202**

**Gröbner, J.; Los, A.**

Calibration of Pyrgeometers: the Influence of the Spectral Sensitivity

15:00–15:15

**XY0203; EGU2007-A-02076; CL23-1TU5P-0203**

**Alpert, P.; Kishcha, P.**

Global dimming or regional dimming - anthropogenic effects on solar insolation

15:15–15:30

**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

15:30–15:45

**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

15:45–16:00

**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

16:00–16:15

**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

16:15–16:30

**XY0208; EGU2007-A-06417; CL23-1TU5P-0208**

**Wonsick, M.; Pinker, R. T.; Liu, H.**


16:30–16:45

**XY0209; EGU2007-A-06544; CL23-1TU5P-0209**

**Wang, H.; Pinker, R. T.**

Surface Downward Short-Wave Fluxes Estimated from MODIS Level-2 Swath Products
Atlantic circulation even under 2xCO2 stabilisation
Land-ice melting causes strong multi-century slowdown of
Marti, O.

Response of Carbon-14 in atmosphere and ocean to changes during the last 25,000 years
The Okhotsk Sea - Changes in Intermediate Water ventilation during the LGM and Heinrich events
Siani, G.; Kageyama, M.

Hydrological changes in the Mediterranean Sea during the 230 Y ears
North Atlantic Climate and deep-ocean Flow during the last 25 Ka
Impacts of the North Atlantic gyre circulation on Holocene climate off Northwest Africa
Thal, T.; Müller, P .; Schneider, R.R.

Stability and restoring timescales of the glacial Atlantic
Boessenkool, K.P.; Hall, I.R.; Elderfield, H.; Yashayaev, I.

Hydrological changes in the Mediterranean Sea during the LGM and Heinrich events

Ocean margin densities and paleoestimates of the Atlantic meridional overturning circulation
Hirschi, J.; Lynch-Stieglitz, J.

The variability of the North Atlantic deep water formation bi-stability of the thermohaline circulation
Ortega, P .; Marsh, R.; Price, A. R.; Lunt, D. J.

Applications of 3d EOFs to multi-decadal variability and predictability of the Atlantic thermohaline circulation
Cohard, R.; SUTTON, R HA WKINS, E

Circulation patterns and ventilation variability from thermocline waters in the Northeast Pacific: Records for the last 25 Ka
Uchida, M.; Ohkushi, K.; Kimoto, K.; Shibata, Y.

Is the stability of the Atlantic MOC changed by global warming?
Hergerua, J. C.; Kashgarian, M.; Herbert, T.; Charles, C.

The atmospheric response to North Atlantic freshwater forcing
Laepple, T.; Kubatzi, K.; McVicar, A.; Lohmann, G.

The role of ocean and atmosphere feedbacks in maintaining bi-stability of the thermohaline circulation
Alhammoud, B.; Meijer, P.; Béranger, K.; Tuenter, E.

The variability of the North Atlantic deep water formation and the Atlantic meridional overturning circulation during the last millennium
Ortega, P.; Montoya, M.; González-Rouco, J.F.

Towards a traceable model hierarchy to assess the stability of the MOC

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

XY0212; 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

XY0213; EGU2007-A-00797; CL26-1TU4O-002
Weber, S.L.

XY0214; EGU2007-A-03290; CL26-1TU5P-0214
Alhammoud, B.; Meijer, P.; Béranger, K.; Tuenter, E.
A simulation of the precession-minimum and present-day Mediterranean thermohaline circulation.

XY0215; EGU2007-A-04715; CL26-1TU5P-0215
Gyllencreutz, R; Kissel, C
Late glacial 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
Hergueru, 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
van der Swaluw, 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.; Kubatzi, K.; McVicar, A.; Lohmann, G.
The atmospheric response to North Atlantic freshwater forcing

XY0222; EGU2007-A-09814; CL26-1TU5P-0222
Gourlan, 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.
CL4 record of the North Atlantic – North Pacific seesaw in MOC during early deglacial times (cancelled)

XY0227; EGU2007-A-10806; CL26-1TU5P-0227
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
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

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
Hethzinger, 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.

Bradley, R.S.
Reconstructions of climate over recent millennia: problems and prospects (Hans Oeschger Medal Lecture) (solicited)

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 surrogated climate

12:00 LUNCH BREAK

Chairperson: N.N.

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
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, XL; 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.; Saladie, 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
The pulse of Holocene glaciations in New Zealand’s Southern Alps

XY0231; EGU2007-A-01596; CL28-1TU5P-0231
Barriopedro, D.; Moyano, R.; Hernández, E.
Highly branched isoprenoid biomarkers as indicators of sea-ice diatoms: implications for historical sea-ice records and future predictions

XY0232; EGU2007-A-05096; CL28-1TU1O-002
garcia-herrera, r.; diaz, h.f.; garcia, 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)
The Little Ice Age revisited
Bakke, J.; Paasche, Ø
The Little Ice Age revisited

A 115 year high-resolution ice core record from Swarmaya Zemlya, Central Russian Arctic

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

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.; Abelmann, A.; Esper, O.; Fischer, H.; Kunz-Pirrung, M.
Records from Antarctic ice and Southern Ocean climate archives &#8211; 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, glacimarine 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 glacimarine 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

Conveners: Florindo, F.
Co-Conveners(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
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.; Pantjoa, 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 paleoecoreconstructions

XY0255; EGU2007-A-01205; CL31-1TU5P-0255
Gupta, S.M.; MalnPgren, 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 Garcia, 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.; Accetella, 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.; Verosub, K.L.; Florindo, F.F.; Acton, G.A.
Magnetostratigraphy and Environmental Magnetism of Eltanin Core 27-21, Ross Sea Sector (Antarctica)

XY0264; EGU2007-A-08599; CL31-1TU5P-0264
Jovane, L.; Verosub, K.L.; Florindo, F.F.; Acton, G.A.
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 palaeoclimate records - recent advances in IODP and ICDP

Conveners: Brinkhuis, H.
Co-Conveners(s): Roehl, U., Cronin, T.
Lecture Room 25
Chairperson: BRINKHUIS, H.; ROEHL, U.; CRONIN, T.

8:30–8:45; EGU2007-A-02152; CL36-1TU1O-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 “Tahtii sea level”. (solicited)

8:45–9:00; EGU2007-A-07300; CL36-1TU1O-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; CL36-1TU1O-003
Westerhold, T.; Röhl, U.; Raffl, I.; Forcaciari, 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; CL36-1TU1O-004

9:30–9:45; EGU2007-A-11306; CL36-1TU1O-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; CL36-1TU1O-006
XY0267; EGU2007-A-02416; CL36-1TU5P-0267

Sécard, 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: IODP Expedition #310, Tahiti

XY0268; EGU2007-A-05492; CL36-1TU5P-0268


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


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

Sangiovanni, F.; Brumsack, H.-J.; Schouten, S.; Brinkhuis, H.; Willard, D.A.; Reichart, G.-J.; Stickley, C.E.; Kaminiski, M.A.; Sinninghe Damsté, 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, J.

Eocene palaeoenvironments and biostratigraphy in the Arctic: A diatom and chrysophyte perspective

XY0272; EGU2007-A-03469; CL36-1TU5P-0272


Middle Eocene cyclicity in Central Arctic Ocean sediments: preliminary results

XY0273; EGU2007-A-10304; CL36-1TU5P-0273


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 palaeoenvironments 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-10870; 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


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 Chichxulub 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

XY0283; EGU2007-A-01027; CL36-1TU5P-0283

Authors in Attendance: Tuesday, 17:30–19:00

Display Time: Tuesday, 08:00–19:30

Convener: Brinkhuis, H.

Con-Convener(s): Roehl, U., Cronin, T.

Time: Tuesday, 08:00–19:30

Poster Area Halls XYZ

Chairperson: BRINKHUIS, H.; ROEHL, U.; CRONIN, T.

CL38/GI12 Earth System Modelling: Strategies and Software (co-organized by GI, co-listed in AS, HS & OS)

Conveners: Budich, R.

Co-Conveners(s): Redler, R.

Lecture Room 14

Chairperson: BUDICH, R.

15:30–15:45; EGU2007-A-01542; CL38/GI12-1TU4O-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/GI12-1TU4O-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/GI12-1TU4O-003

Coffino, A.; 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/GI12-1TU4O-004

Deckel, 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/GI12-1TU40-005
Armstrong, C; Ford, R; Riley, G
Flexible Coupling with BFG

16:45–17:00; EGU2007-A-07149; CL38/GI12-1TU40-006
C3Grid: Benefits for scientists

CL38/GI12 Earth System Modelling: Strategies and Software (co-organized by GI, co-listed in AS, HS & OS) – Posters

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
OASIS4: a code coupler for the climate modelling CICLE 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
The INGV-CMCC Earth System Model: Configuration and technical results

XY0290; EGU2007-A-10245; CL38/GI12-1TU5P-0285
Döscher, R.; Wyser, K.; Meier, H.E.M; Graham, P
RCAO, the Rossby Centre Atmosphere-Ocean-Ice model

XY0292; EGU2007-A-05155; CL38/GI12-1TU5P-0292
Sundari, S.; Vadhyan, 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)

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)

11:00–11:15; EGU2007-A-09884; CR20-1TU2O-003
Isaksen, K.; Benestad, R.
Permafrost thermal response to the extreme winter and spring temperatures of 2005/2006 on the Arctic islands Svalbard

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: Popocatépetl and Iztaccíhuatl volcanoes (Mexico)

12:00–12:15; EGU2007-A-11532; CR20-1TU2O-006
van Gasselt, S.; Hauber, E.
Cold-Climate Landforms and Processes on Mars (solicited)

CR80 Mass and energy balance of snow and ice

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

12:00 END OF SESSION
13:45–14:00; EGU2007-A-04489; CR80-1TU3O-002

14:00–14:15; EGU2007-A-03884; CR80-1TU3O-003
Giesen, R.H.; Oerlemans, J. Modelling the 20th century surface mass balance of Hardangerjokulen, southern Norway.

14:15–14:30; EGU2007-A-09071; CR80-1TU3O-004
Asztalos, J.; Kirnbichler, 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.; Diolaiti, 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

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

A0002; EGU2007-A-03439; CR80-1TU5P-0002
Smeets, C.; Van den Brook, M. R. Summer energy balance in the ablation zone of the Greenland ice sheet.

A0003; EGU2007-A-03552; CR80-1TU5P-0003

A0004; EGU2007-A-04137; CR80-1TU5P-0004

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

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.; MÅïler-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 quantity.

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
Corripio, J.; Molnar, P.; Dadic, R. Glacier surface melt modelling: inter-comparison of two energy-balance and two temperature-index approaches and their sensitivity to the input data quantity.

15:00–15:15; EGU2007-A-11307; CR80-1TU3O-007
Meeting Programme

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.; Chapronnière, 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
Comparative analysis of climate change impacts in the Yarlung Tsangpo (Upper Brahmaputra) and Upper Danube river basins – the BRAHMA TWIN Project.

17:00–17:15; EGU2007-A-06569; CR90-1TU4O-006
Buylaert, W.; Celleri, R; De Bièvre, B.; Buytaert, W.
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-Conveners: 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 annual mean precipitation gradient measured in a lee mountain catchment, South Island, New Zealand

A0018; EGU2007-A-09687; CR90-1TU5P-0018
Rößler, O.; Winiger, M.; Löfler, 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.; Méridol, L.
44 Years of climate reanalyses in the French Alps (1958-2002): methodology, validation and results for meteorological parameters and related snow cover conditions.

A0021; EGU2007-A-05070; CR90-1TU5P-0021
Dedieu, J.P.; 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
Roesler, 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
Brenic, M.; Vrec, 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.; Schäfer, 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
Lambrick, 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

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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; CR100-1TU1O-001
Jin, Y.Q.
Multiple scattering and emission from inhomogeneously layered snowpack

8:45–9:00; EGU2007-A-09173; CR100-1TU1O-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; CR100-1TU1O-003
Alexandrov, V.Y.; Sandven, S.
Estimation of the relation between ice thickness and ice freeboard

9:15–9:30; EGU2007-A-09695; CR100-1TU1O-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; CR100-1TU1O-005
Hall, D.; Williams, R.; DiGirolamo, N.

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-0036
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

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.

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-07064; CR135-1TU3O-002
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
Smersrud, 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.

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-Conveners: 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
Schoeder, 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
Lietzke, 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
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-Mélie, 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

Meeting Programme

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Geochemistry, Mineralogy, Petrology & Volcanology

GMPV1 Understanding physical and chemical signals from active volcanoes

Convener: Neuberg, J.
Co-Conveners: Burton, M.
Lecture Room 21 (O)
Chairperson: Neuberg, J.

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-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

14:15–14:30; EGU2007-A-04970; GMPV1-1TU3O-003
de Zeeuw-van Dalfsen, E.; Jaupart, C.; Pinel, V.
Using a flow model to explain geodetic data, preliminary results from Eyjafjallajökull, Iceland

14:30–14:45; EGU2007-A-05075; GMPV1-1TU3O-005
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.

Moretti, R.; Aiuppa, A.; Papale, P.
Pressurization vs. flushing in the modelling of volcanic gases at basaltic volcanoes

15:45–16:00; EGU2007-A-05475; GMPV1-1TU3O-007
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-05575; GMPV1-1TU3O-008
Cigolini, C.; Ripepe, M.; Laiolo, M.; Coppola, D.; Olivieri, G.
New developments in radon monitoring at Stromboli Volcano (Italy)

16:15–16:30; EGU2007-A-05675; GMPV1-1TU3O-009
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-05775; GMPV1-1TU3O-010
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 Soufrière Hills Volcano, Montserrat (solicited)

17:00 END OF SESSION

GMPV1 Understanding physical and chemical signals from active volcanoes – Posters

Convener: Neuberg, J.
Co-Conveners: 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
Viniguerra, 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.; Tessmer, 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
Ottemoller, 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

281
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
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
Gasperini, 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
Sr-O isotope geochemistry and mineral chemistry of recent volcanic rocks from Ischia island (Phlegraean 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
GMVP5 Advances in the knowledge of the magmatic and eruptive history of European active volcanoes – Posters

Conveners: Keller, J.
Co-Conveners(s): Civetta, L.
Display Time: Tuesday, 08:00–18:30
Authors in Attendance: Tuesday, 13:30–15:00
Poster Area Hall A
Chairperson: CIVETTA, LUCIA

A0076: EGU2007-A-03686; GMVP5-1TU3P-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; GMVP5-1TU3P-0077
Amado, P.; Aparicio, A.; Garcia, A.
Tectonic - volcanism relations in the Santiago rift (Tenerife, Canary Islands, Spain)

A0078: EGU2007-A-02351; GMVP5-1TU3P-0078
Mitchell, N.C.; Beier, C.; Rosin, P.; Quartau, R.; Tempera, F.
Submarine lava flows around the coasts of Pico Island, Azores

A0079: EGU2007-A-00470; GMVP5-1TU3P-0079
Laiolo, 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 paroxistical events at Stromboli volcano

A0080: EGU2007-A-02621; GMVP5-1TU3P-0080
Barberi, G.; Zhang, H.; Scarfi, L.; Cocina, O.; Castelano, M.; Chiarabba, C.; Patané, D.
Crustal evidence of a low velocity Vp and Vs volume beneath Stromboli Volcano, Italy

A0081: EGU2007-A-03431; GMVP5-1TU3P-0081
Martinez-Arévalo, C.; Musumeci, C.; Barberi, G.; De Gori, P.; Patané, D.
Receiver Function Analysis at Stromboli Volcano (Italy)

A0082: EGU2007-A-04796; GMVP5-1TU3P-0082
The rheology of Vesuvius magmas

A0083: EGU2007-A-02630; GMVP5-1TU4P-0083
De Gori, P.; Martinez-Arévalo, C.; Giampiccolo, E.; Patané, D.; Chiarabba, C.
High-resolution compressional wave attenuation tomography during the Mt. Etna 2002-2003 flank eruption

A0084: EGU2007-A-01786; GMVP5-1TU4P-0084
Monteiller, V.; Got, J.-L.; Patane, D.; Barberi, G.; Cocina, O.
Double-difference tomography at Mt Etna volcano

A0085: EGU2007-A-09701; GMVP5-1TU4P-0085
Norini, G.; Bellotti, F.; Branca, S.; Coltell, M.; De Beni, E.; Groppelli, G.; Lentini, F.
Spatial database for the new geological map of Mount Etna (Italy)

A0086: EGU2007-A-10087; GMVP5-1TU4P-0086
Bobrowski, N.; Guifrida, G.B.; Vita, F.; Sollami, A.; Ingugliato, S.
Bromine and sulfur studies during the Mt. Etna 2006 eruption

A0087: EGU2007-A-05747; GMVP5-1TU4P-0087
Mangiacapra, A.; Rutherford, M.; Civetta, L.
Pre-eruption conditions of Minopoli2 shoshonitic magma from melt inclusions and experimental studies

A0088: EGU2007-A-04062; GMVP5-1TU4P-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.

GMVP18 The Role of Accessory Minerals in Metamorphic and Igneous Processes

Conveners: Harlov, D.
Co-Conveners(s): Finger, F.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 13:30–15:00
Poster Area Hall A
Chairperson: HARLOV, D.

8:30–8:45; EGU2007-A-04387; GMVP18-1TU1O-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; GMVP18-1TU1O-002
Thöni, M.; Miller, Ch.; Postl, W.; Weißensteiner, G.
Sm-Nd partitioning between garnet, feldspar and high-REE accessory minerals (Ap, Xtm, Mzn): new constraints on timing and duration of the “Permian-Triassic event” (Eastern Alps)

9:00–9:15; EGU2007-A-06248; GMVP18-1TU1O-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; GMVP18-1TU1O-004
Putnis, A.; Jansen, A.; Geisler, T.; Putnis, C.V.
The mechanism of hydrothermal alteration of ilmenite.

9:30–9:45; EGU2007-A-01748; GMVP18-1TU1O-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; GMVP18-1TU1O-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; GMVP18-1TU2O-001
Finger, F.; Hovis, G.; Harlov, D.
Role of Fluids In Regional Granulite-Facies Metamorphism (solicited)

10:45–11:00; EGU2007-A-06132; GMVP18-1TU2O-002
Montel, JM; Aparicio, A.; Garcia, A.
The giant monazites occurrence in Manangotry (Madagascar)
Meeting Programme

11:00–11:15; EGU2007-A-06922; GMPV18-1TU2O-003
Gardès, 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 provenance 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 gneiss-migmatite core complex of the Great Caucasus

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-Conveners(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.; Thony, W.F.; Tropper, P.; Mair, V.
Thermorhometry 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
Semytiksa, 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.; Zahradiuk, 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, Ottré, 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.; Lov, 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
Skridelaitie, 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, Szabó, Zs
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.; Khaletnev, 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-10599; 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-Conveners(s): Avril, B.
Lecture Room 20 (N)
Chairperson: WINKLER, B.
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-ITU3O-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-ITU3O-003
Fabian, K.; McEnroe, S.; Robinson, P.
Lamellar magnetism carries the natural remanent magnetisation in ilmenohematite from Modum, Norway

14:15–14:30; EGU2007-A-06070; GMPV20/BG5.10-ITU3O-004
Kantor, I.; Dubrovinsky, L.; McCammon, C.
Pressure-induced spin crossover in ferropericlase: an alternative concept.

14:30–14:45; EGU2007-A-08322; GMPV20/BG5.10-ITU3O-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, AlO(OH), up to 50 GPa from experiment and theory

14:45–15:00; EGU2007-A-09301; GMPV20/BG5.10-ITU3O-006
Walte, N.P.; Heidelbach, F.; Rubie, D.C.; Frost, D.J.
LPO and Perovskite–post-Perovskite phase transition of CaIrO3 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-ITU4O-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-ITU4O-002
Olsen, LA; Balic-Zunic, T; Makovicky, E
From lillianite to â-Pb3Bi2S6: a crystal chemical study of Pb3Bi2S6 at high pressure

16:15–16:30; EGU2007-A-02268; GMPV20/BG5.10-ITU4O-003
Coif, 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-ITU4O-004
Blanchard, M.; Wright, K.
Incorporation modes of hydrogen in ringwoodite: a DFT study

16:45–17:00; EGU2007-A-07625; GMPV20/BG5.10-ITU4O-005
Tatham, D.; Prior, D.
In situ heating and deformation experiments in the SEM

17:00 END OF SESSION


Convener: Winkler, B.
Co-Conveners(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-ITU1P-005
Avril, B.
EuroMinSci Programme - An overview

A0106; EGU2007-A-00415; GMPV20/BG5.10-ITU1P-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-ITU1P-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-ITU1P-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-ITU1P-0109
Fabian, K.; Scherbakov, 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-ITU1P-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-ITU1P-0111
Deguen, R.; Albuossière, 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-ITU1P-0112
Becker, JKB; Bons, PDB
A new approach to 3D front-tracking simulation of grain growth

A0113; EGU2007-A-08136; GMPV20/BG5.10-ITU1P-0113
Pennock, G.M; Drury, M.R.
The effect of deformation on subgrain misorientations
Meeting Programme

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
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.; Cibin, 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-Eskisehir-Turkey) region

A0123; EGU2007-A-07426; GMPV20/BG5.10-1TU1P-0123
Krivolutskaya, N.A.; Sobolev, A.V.; Kuzmin, D.V.; Svirskaya, N.M.
 Olivine 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
Haghnavaz, M.; Esmaili, 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-Conveners: 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 IRLS 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.

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
Urschil, 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
Meeting Programme

XY0308; EGU2007-A-09823; G1-ITU5P-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
Mendes Cerveira, P.J.; Heinkelmann, R.; Weber, R.; Schuh, H.
Assortativity in the datum definition of VLBI analysis and its implication on the terrestrial reference frame

XY0314; EGU2007-A-09578; G1-1TU5P-0314
Near-seasonal periods in GNSS station time series

XY0315; EGU2007-A-06586; G1-1TU5P-0315
Khazaradze, G.; Suriñach, E.; Gárate, J.; Davila, J. M.
Crustal deformation in eastern Betics from CURTeNeO GPS network

XY0316; EGU2007-A-01904; G1-1TU5P-0316
Moghtased-Azar, K.; W. Grafarend, E
Deformation analysis based on intrinsic geometry

XY0317; EGU2007-A-02183; G1-1TU5P-0317
Application of the nonlinear regression (LS) on the 3D and 2D coordinates transformation problem (case of Algeria).

XY0318; EGU2007-A-01029; G7/GD15-1TU4O-001
Ozener, H.
Recent Crustal Movements and Results of Studies on The North Anatolian Fault System

XY0319; EGU2007-A-05314; G7/GD15-1TU5P-0319
Caporali, A.; Massironi, M.
Hydraulic triggering of earthquakes following the 1976 M=6.5 Friuli (Northern Italy) and 1998 M=6 Bovec (Slovenia) events

XY0320; EGU2007-A-08183; G7/GD15-1TU5P-0320
Barkin, Yu.V.; Shuanggen, J.
On variations of the mean radius of the Northern and Southern Hemispheres of the Earth

XY0321; EGU2007-A-08467; G7/GD15-1TU5P-0321
Barkin, Yu.V.
To explanation of the height variations at Medicina and Syowa stations

XY0322; 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

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

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.

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.
**XY0352; EGU2007-A-08961; G12-1TU5P-0352**

**Ferhat, G.; van der Woerd, J.; Ferry, M.; Masson, F.; Meghraoui, M.; Hinderer, J.** "Alps-GPS/Quakenet" partners, and Continuous GPS network monitors the Upper Rhine Graben deformation

**XY0353; EGU2007-A-00410; G12-1TU5P-0353**

**Grácová, M.; Schenk, V.; Mantlík, F.; Schenkova, Z.; Kottnauer, 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

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**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; GD03-1TU3O-001**

**Deuss, A.; Andrews, J.**

Seismological observations of mantle discontinuities, and their mineral physical interpretation (solicited)

**13:45–14:00; EGU2007-A-09069; GD03-1TU3O-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; GD03-1TU3O-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; GD03-1TU3O-004**

**Boschi, L.; Becker, T. W.; Steinberger, B.**

Mantle plumes: dynamic models and seismic images

**14:30–14:45; EGU2007-A-02575; GD03-1TU3O-005**

**Piazzoni, A.S.; Bunge, H.-P.; Steinle-Neumann, G.**

Linking mineral physics and geodynamic mantle models

**14:45–15:00; EGU2007-A-02039; GD03-1TU3O-006**

**Matas, J.; Bukowski, M.S.T.**

Anelasticity in the lower mantle: influence on the temperature dependence of seismic velocities

**15:00 COFFEE BREAK**

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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; GD03-1TU4O-001**

**Soldati, G.; Deschamps, F.; Boschi, L.**

Radial models of viscosity and seismic velocity-to-density scaling from geophysical observables

**A0131; EGU2007-A-03958; GD03-1TU4O-002**

**Tosi, N.; Martinec, Z.**

The effect of short- and long-wavelength lateral viscosity variations on geoid predictions

**A0132; EGU2007-A-03587; GD03-1TU4O-003**

**Armienti, P.; Gasperini, D.**

New perspectives on mantle heterogeneity

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**16:15–16:30; EGU2007-A-10611; GD03-1TU4O-004**

**Starkey, N.; Stuart, P.M.; Ellam, R.M.; Basu, S.; Fitton, JG.**

High 3He/4He in the Deep Earth: Preservation of Primordial Mantle or Early Depletion?

**16:30–16:45; EGU2007-A-10294; GD03-1TU4O-005**

**Bunge, H.-P.**

Thermal structure across the CMB and deep mantle

**16:45–17:00; EGU2007-A-04894; GD03-1TU4O-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**

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**17:30–17:45; EGU2007-A-08576; GD03-1TU5O-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; GD03-1TU5O-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; GD03-1TU5O-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; GD03-1TU5O-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; GD03-1TU5O-005**

**Breuer, M.; Harder, H.; Hansen, U.**

On potential driving mechanisms of core convection - a numerical study

**18:45 END OF SESSION**
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
Tantserev, 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 probabilitic 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 isostatic 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.; Sevčik, 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
Solitis, T.; Brestensky, J.; Sevčik, S.
MAC/MC - modes in variously stratified fluid layer with anisotropic diffusive coefficients

A0145; EGU2007-A-08843; GD03-1TU1P-0145
On the seismic focal zone of the Hercynian tectonic cycle and the kimberlite formation of tectonic-magmatic activation 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
Meeting Programme

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 Hosaini, M.; Joodaki, Gh.
Continuous representation of crustal deformation in southern central Alaska

A0164; EGU2007-A-05289; GD08-1TU2P-0164
Mashhadi Hosaini, 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
Baccoli, 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.; Jechumšľová, 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 geodynamics 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-Conveners: Roure, F.

Poster Area Hall A
Chairperson: ROURE, F.

Authors in Attendance: Tuesday, 13:30–15:00
Display Time: Tuesday, 08:00–19:30

Lecture Room 23
Chairperson: SCHECK-WENDEROTH, M.

9:00–9:15; EGU2007-A-11287; GD10-1TU1O-003
Buiter, S.; Torsvik, T.
Basis inversion constrained by numerical models and plate reconstructions: a Barents Sea example

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

9:15–9:30; EGU2007-A-06405; GD10-1TU1O-003
Torsvik, T.
Basis inversion constrained by numerical models and plate reconstructions: a Barents Sea example

8:30–8:45; EGU2007-A-11289; GD10-1TU1O-001
Cloetingh, S.; van Wees, J.D.; Beckman, F.
Thermo-mechanical models for basin (de)formation: beyond the McKenzie model (solicited)

9:30–9:45; EGU2007-A-11289; GD10-1TU1O-005
Podladchikov, Y.Y.; Medvedev, S.; Faleide, J.; Hartz, E. H.; Simon, N. S.
Mechanical anisotropy of the lithospheric mantle and continental rifting: Observations and models

9:45–10:00; EGU2007-A-10468; GD10-1TU1O-006
Hartz, E. H.; Podladchikov, Y. Y.; Simon, N. S.
Thermo-mechanical models for basin (de)formation: beyond the McKenzie model (solicited)

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-Conveners: Roure, F.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 13:30–15:00
Chairperson: ROURE, F.
A0175: EGU2007-A-07958; GD10-1TU3P-0175
Ritzmann, O.; Faleide, J.I.; Plänke, S.; Myklebust, R.
Geophysical structure of the Barents Sea crust and upper mantle compared to Western Siberia

A0176: EGU2007-A-08038; GD10-1TU3P-0176
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
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
Muslîmov, 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.; Pitsiskiy, 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 (Voring and More 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.

GM7 Surface and Subsurface Karst Geomorphology

Convener: De Waele, J.
Co-Conveners(s): Plan, L., Audra, P.
Lecture Room 7
Chairperson: DE WAELE, J.
10:30–10:45; EGU2007-A-01435; GM7-1TU2O-001
Kauffmann, 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.; Piovotti, 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.; Spotte, I.; Konz, M.; Gechter, D.; Huggenberger, P.
Effects of tectonic structures, groundwater pumping, and mining activity on evaporite subrosion and resulting land subsidence
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
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 morphology 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-01842; GM7-1TU5P-0358
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)

XY0359; EGU2007-A-01842; GM7-1TU5P-0359
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)

XY0360; EGU2007-A-02097; GM7-1TU5P-0360
Onac, B.P.; Effenberger, H.; Breban, R.
Rare minerals in the phosphate-rich deposit from the Cioclovina 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

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)

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, T.
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.; Bücker, 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., WILLET, S

II. Rates and Mechanisms of Coupling

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

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

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.; Couthard, 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
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

Simpson, G.; Willett, S.; Stoliar, 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.; Muecku, 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
Stiwe, 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-Conveners: 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.; Caitlin, 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 the Rhine catchment

XY0368; EGU2007-A-09273; GM11-1TU5P-0368
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
XY0369; EGU2007-A-07422; GM11-1TU5P-0369
Poisson, B.; Carretilier, 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
Rohlf, 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°-50°S)

XY0376; EGU2007-A-06403; GM11-1TU5P-0376
Possible coupling between climatically induced lake level change, volcanic eruptions and seismitectonic activation in the Rukwa-Rungwe-Nyasa rift, SW Tanzania

XY0377; EGU2007-A-10207; GM11-1TU5P-0377
Kirstein, L.A.
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.
Re-evaluating Scandinavia’s Apatite Fission Track data set

XY0379; EGU2007-A-09428; GM11-1TU5P-0379
Van Hemelryck, H.; Van Oost, K.; Govers, G.; Mercckx, 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.
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
Soil and atmospheric controls on the a13C of riverine dissolved inorganic carbon in the Nyong river basin (South Cameroon)

XY0384; EGU2007-A-08036; GM11-1TU5P-0384
Wulf, H.; Elsenbeer, H.; Mäker, M.; Bookhagen, B.
Contemporary surface processes in the Satluj region of North India.

XY0385; EGU2007-A-06201; GM11-1TU5P-0385
Alvarez-Marron, J.; Menéndez, R.; Glamach, M.U.
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.; Meelli, 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
Moliex, 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
Tsini, C.; Ganas, A.; Soulakellis, N.; Kairis, O.; Valmis, S.
Morpho-tectonics 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 Balatonfö region

XY0391; EGU2007-A-00351; GM11-1TU5P-0391
Gogoașe Nistoran, D. E.; Armas, I.; Popa, R.; Pincovschi, I.
Assessing hillslope-streamchannel couple in landscape evolution: Prahova sub-Carpathian area, Romania

XY0392; EGU2007-A-08795; GM11-1TU5P-0392
Likšer, F.; Läuffer, 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
Slovenian Seismic Network

Analysis of Real Time Seismic Data Transmission Used by
Rovelli, A.; Taddei, R.

Geosciences Instrumentation and Data Systems

G11 Open session on Geoscience Instrumentation (co-listed in GMPV, G, HS, MPRG, NH, OS & SM) – Posters

Convenor: Korepanov, V.

Co-Convener(s): Svedhem, H., Harri, A.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 17:30–19:00

Chairperson: N.N.

XY0398; EGU2007-A-00067; GI1-1TU5P-0398

Malevinskii, S.V.; Konоваленко, A.A.

Radio telescope RT-70 in world networks of radio interferometers with very long baselines

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.; Tedde, R.

GECO: 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

Palinkás, V.

Experiences with the ZLS Burrus gravimeter

XY0407; EGU2007-A-10312; GI1-1TU5P-0407

Faz, A.; Martinez-Pagan, P.; Aracil, E.; Acosta, J.A.; Martinez-Martinez, S.; Maruri, U.

Geochromical 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, L.; Mervielle, M.; Pincon, JL.; 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, M.

Description of the HiCum method dedicated to periodic signals analysis

XY0413; EGU2007-A-00015; GI1-1TU5P-0413

Ndougsa-Mbarga, T.; Manguelle-Dicoum, E.; Kant-Sharma, K.

Integration of the finite element approach(es) 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 geodynamics 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)

Convenor: 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; 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

Rayner, P; Jordan, A; Ramonet, M; Vesala, T; Papale, D; Ciais, P.

Atmospheric measurements from the Ochsenkopf Tall Tower: a multi-species approach to studying the carbon cycle
Meeting Programme

9:00–9:15; EGU2007-A-10210; GI2-1TU0-003
Merlaud, A.; De Maziere, M; Van Roozendael, M; Hermans, C; Everaerts, J; Cornet, A
Regional monitoring of tropospheric NO2 and CO using remote sensing from a HALOE-UV

9:15–9:30; EGU2007-A-00488; GI2-1TU0-004
Khan, M.A.H; Mead, M.I.; Nickless, G.; Shallcross, D.E.
Sorbert tube sampling and automated thermal desorption system linked with ECD/MS/IRMS for halocarbon analysis

9:30–9:45; EGU2007-A-00417; GI2-1TU0-005
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; GI2-1TU0-006
Clais, 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, I; Stachlewiska, 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; Boudevilain, B
Tomography sensitivity tests and comparisons of water vapor fields with radar data

11:15–11:30; EGU2007-A-09142; GI2-1TU2O-004
High-resolution GPS tomography in the mountainous Canton of Valais (Switzerland)

11:30–11:45; EGU2007-A-03134; GI2-1TU2O-005
Alexandroff, M.; Lacis, 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, R
Development of a Community Airborne Platform Remote-Sensing Interdisciplinary Suite (CAPRIS)

12:00 END OF SESSION

13:30–14:00; EGU2007-A-05542; GI3-1TU3O-001
Masson, 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
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
REMOTE-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
Waldmann, C.; Richter, L.; Wood, S.
Deep Sea Crawlers for scientific Applications - an Overview about the State-of-the-Art

15:00–15:15; EGU2007-A-11248; GI3-1TU3O-006
Collins, K.J.
AUV science in extreme environments into the next decade

15:15 END OF SESSION

17:00 COFFEE BREAK

G14 Instrumentation related to polar regions and the IPY (co-listed in AS, BG, CR & OS)

Convener: Rose, M.
Co-Conveners(s): Meldrum, D.
Lecture Room 2
Chairperson: N.N.

15:30–15:45; EGU2007-A-05214; GI4-1TU4O-001
Williams, G.; Wilkinson, J
AUV science in extreme environments into the next decade

15:45–16:00; EGU2007-A-10945; GI4-1TU4O-002
Linton, G.
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.; Magnussen, 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
Bottlenheim, 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.; Osaka, 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; GI4-1TU5O-001
Rose, M. C.
Variable speed wind generator control in Antarctica.

17:45–18:00; EGU2007-A-11193; GI4-1TU5O-002
Uttal, T.; Makhtas, A.; Paatero, J.; Hansen, B.; Intrieri, J.
Establishing a new Climate Observatory in Tiksi, Russia

18:00–18:15; EGU2007-A-04395; GI4-1TU5O-003
Weaver, R.; Kaminski, M.; Ballagh, I.
NSIDC DAAC Data Sets and Services for the IPY

18:15–18:30; EGU2007-A-02201; GI4-1TU5O-004
Frearson, N.; Corr, H.
Making aliased images from sub-sampled signals, your friends!

18:30–18:45; EGU2007-A-09619; GI4-1TU5O-005
Wilhelms, F.
Sub-glacial penetration from an ice driller’s and a biologist’s perspective

18:45–19:00; EGU2007-A-09214; GI4-1TU5O-006
The Ground-based Scanning Radiometer (GSR): a Tool for Polar Atmospheric Research

19:00 END OF SESSION

 alice@example.com

G19 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
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
Log data and borehole image analysis of Hole-B, Taiwan Chelungpu-fault Drilling Project

XY0420; EGU2007-A-10472; GI9-1TU5P-0420
Glover, P.W.; 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.
TAITSCAN-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: Böschl, 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; HS1-1TU1O-001
Savenije, H.
Can we encourage scientists to work together? The WaterNet example. (solicited)

9:05–9:35; EGU2007-A-10041; HS1-1TU1O-002
Wilson, J.L.
Can hydrologic scientists learn to speak up and with one voice? (solicited)

9:35–10:05; EGU2007-A-06052; HS1-1TU1O-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; HS1-1TU2O-001
BOLGOV, M.
the building of hydrological community (solicited)

11:00–11:30; EGU2007-A-08241; HS1-1TU2O-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; HS1-1TU2O-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; HS1-1TU3O-001
Ludden, J.
What tools does Europe have to encourage community building in the geosciences, and how well do they work? (solicited)
Meeting Programme

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

Conveners: Kosuth, P.

Co-Conveners(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
Gennero, 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; Cauchope, 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.; Ramilien, 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
sheli, 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 ENVISAT 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.; Günnter, A.; Merz, B.
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.; Bilkert-Koivula, M.; Mäkinen, J.; Vehviläinen, M.; 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

Conveners: Ludwig, R.

Co-Conveners(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.; Seipl, 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.; Bastiaansen, 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-Conveners: Birk, S., Gabrovsek, F., Sauter, M., Zechner, E.
Lecture Room 31
Chairperson: MALOSZEWSKI, P.

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
Hoetzl, H.; Flexer, A.; Guttmann, 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-Conveners: 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 a 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.; Rehrl, 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 modeling 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.; Schwecke, 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.; Wohlinich, S.
Multiple tracer tests for assessing fracture properties of sedimentary hard rocks

A0206; EGU2007-A-00542; HS11-1TU4P-0206
Chryskikopoulos, 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
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.

9:00–9:15; EGU2007-A-06174; HS14-1TU1O-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; HS14-1TU1O-004


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; HS14-1TU1O-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; HS14-1TU1O-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**
Effect of root water uptake on water dynamics of soil with preferential pathways

Effect of water table fluctuations on solute transport: column experiments and modelling

The influence of low permeability lenses on artificial groundwater recharge

The Role of the vadose Zone

The effect of initial water saturation on the solute transport

Hydraulic conductivity and entrapped air in heterogeneous
heterogeneous cambic soil

Numerical simulation of surface-subsurface flow interaction during border irrigation

Estimation of groundwater recharge in a stony soil based on monitoring of soil hydraulic data

et al., 2004) and the role of soil moisture and solute transport, root exudates and soil organic matter

Effect of root water uptake on water dynamics of soil with preferential pathways

Meta-modelling of the pesticide fate model MACRO for observed with neutron transmission technique

Towards a comparative study of unsaturated flow models at different spatial scales: the monitoring activity at the point and plot scales

The effect of initial water saturation on the solute transport

The influence of low permeability lenses on artificial groundwater recharge

Non-point-source groundwater vulnerability assessments at regional scale by coupling of GIS and transfer function

The Role of the vadose Zone

Regionalisation of stream temperatures in Austria by external drift Top-kriging

Estimation of groundwater recharge in a stony soil based on monitoring of soil hydraulic data

A comparative study of unsaturated flow models at different spatial scales: the monitoring activity at the point and plot scales

Effect of water table fluctuations on solute transport: column experiments and modelling

The effect of initial water saturation on the solute transport

Effect of root water uptake on water dynamics of soil with preferential pathways

Numerical simulation of surface-subsurface flow interaction during border irrigation

Estimation of groundwater recharge in a stony soil based on monitoring of soil hydraulic data

Meta-modelling of the pesticide fate model MACRO for observed with neutron transmission technique

Towards a comparative study of unsaturated flow models at different spatial scales: the monitoring activity at the point and plot scales
Meeting Programme

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.; Magoon, L.; 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.; Kamkentheiler, M.
Quantifying and locating water stored within a catchment thanks to ground geodesy

A0244; EGU2007-A-02581; HS33-1TU4P-0244
Bechini, R.; Cremonein, 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.; Grau, G.; Ruiz, L.; Gascuel-Odoux, C.; Aquilina, L.; Mérat, 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
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.; Parlanje, 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.

END OF SESSION

HS37 Sustainable catchment management: assessing water quality on the catchment scale

Convener: Bornmann, H.
Co-Convener(s): Fohrer, N., Voltz, M., Bogena, H.
Lecture Room 28 (B)
Chairperson: N.N.

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.; Margoun, C.; Guillemin, C.; Gouy, V.; Carluer, 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
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.; Wheater, 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-Conveners: Abrahart, R., See, L., Toth, E., Dawson, C., Han, D., Coulthaly, P., Jain, A., Shamseldin, A.
Lecture Room 30 (C)

Chairperson: N.N.
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12:00 LUNCH BREAK

Chairperson: N.N.

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
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 Schuykill 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, CW; Abrahart, RJ
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; Buch, 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; Gualev, 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, PLM.; 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
Negro, F.; Pisciotto, A.; Favara, R.; Renda, P.
The runoff map of Sicily

A0276; EGU2007-A-08487; HS46-1TU4P-0276
Pisciotto, A.; Negro, F.; Favara, R.; Renda, P.
Hydrogeological model of the central-eastern sector of Sicily

A0277; EGU2007-A-01538; HS46-1TU4P-0277
Szucs, 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-Conveners(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 Isabena 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 flash 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.; Günther, 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.; Santos, G.
Evaluation of flow regime in the Mediterranean streams using flashiness index

A0303; EGU2007-A-08696; HS49-1TU4P-0303
Müller, E.N.; Araujo, J.C.; Batalla, R.; Francke, T.; Günther, 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-Conveners(s): Williamson, D.
Lecture Room 34
Chairperson: N.N.

15:30–15:45; EGU2007-A-07659; MPRG05-1TU4O-001
Larrasoaña, J.C.; Roberts, A.P.; Musgrave, R.J.; Gracia, E.; Piñero, E.; Vega, M.; Martinez-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 Karajda Range section, Azerbaijan

16:30–16:45; EGU2007-A-05986; MPRG05-1TU4O-005
Lovlie, RL; Paasche, ØP
Sedimentary sources within a glacierized catchment identified by magnetic signatures and grain size distribution
Magnetic properties of atmospheric particulate matter (PM10) in the Latium region (Italy): an empirical approach to evaluate natural and anthropogenic inputs

Sagnotti, L.; Macrì, P.; Egli, R.

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 (Hylocomium 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, A.
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

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
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
Illickworth, A J; Williams, C R; Thompson, R J
Independent evaluation of the integrated ZZDZR 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.

Alpert, P.; Raytisfeld , 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)
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; NH1.04-1TU3O-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, F.J.; 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
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.; Mere, 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-Conveners: Arattano, M., Ancey, C.
Lecture Room 27
Chairperson: MCARDELL, B

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.; Deboef, 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, O. i. 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-Conveners: 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.; Bailliflard, 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

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-Conveners: 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
Tohe, 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
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)
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.; Loperte, A.; Pascale, S.; Perrone, A.; Rutigliano, P.; Sdao, F.; Satirano, A.
A jointly application of geomorphologic, geodetic and
gooleotechnical techniques for monitoring landslide surface
deforations: 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
tyrhenian coastal area between Bagnara Calabra 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-05744; NH3.09-1TU5P-0436
Roje-Bonacci, T
The rockslides on high cut-offs in the Dinaric karst in Croatia

XY0425; EGU2007-A-02526; NH3.09-1TU5P-0425
Mišević, P.; Roje-Bonacci, T.; Števaniae, 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
thermovigravometric 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 Mucrone 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
Meeting Programme

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 SCIDICCA (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, J.Z.; 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): Zezere, 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.; Valentinò, R. 
A model for triggering mechanism of shallow landslides

XY0438; EGU2007-A-03509; NH3.13-1TU5P-0438
Zezere, 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.; Beguería-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 slowly-moving slides 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.; Fantò, 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.; Toftan, V.; Ettorre, V. 
Landslide intensity prediction for different typologies and at different scales: towards an upsampling 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)

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
Delporte, 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
Influence of slab properties on human-triggered snow slab avalanches in coastal towns in Iceland

Partly by spring water - Krkonose Mountains, Czech republic

Obstacles and pitfalls in quantifying avalanche risks to roads

Infrasound measurements of avalanche activity

XY0457; EGU2007-A-06387; NH7.01-1TU3P-0457


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.; Witt, 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.

RKO - a Guideline for a Risk based Planning of Countermeasures against Natural Hazards

NH8.02/BG1.06 Heavey-metal contamination of water, air, soil, and foodcrops (co-organized by NH and BG) (co-listed in SSS) – Posters

Convener: Malamud, B.

Co-Conveners(s): Dermatas, D., Marshall, F., Saghatelyan, A.

Display Time: Tuesday, 13:30–15:00

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.; 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.; Petruzelli, 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.; Grange, C.E.; Soares, M. R.; Silva, L.C.F; Maniero, M.A.

Parameters of selenium adsorption in Brazilian Oxisols

XY0467; EGU2007-A-05563; NH8.02/BG1.06-1TU2P-0467

Frade Junior, E.F.; Mouta, E.R.; Guedes, A.C.T; Ferri, T

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.; FĂ¶llmi, 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.; FĂ¶llmi, 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
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
Concentration and distribution of mercury in the West Siberian peatlands

XY0487; EGU2007-A-02087; NH8.02/BG1.06-1TU2P-0487
Ndidi, F.; Fullkerson, 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.; Konstantimides, 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-05287; NH8.02/BG1.06-1TU2P-0491
Saghatelyan, 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.; Naibbandyan, 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 filtering rice 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 filtering rice 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 'eclismpus 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
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.; Dolenc, M.; Dobnikar, M.; Tasev, G.; Pivko, B.
Influence of mining related activity on heavy metals in water and sediment from the Kaliminaci Lake (NE Macedonia)

XY0503; EGU2007-A-01712; NH8.02/BG1.06-1TU2P-0503
Rogan, N.; Dolenec, T.; Serafimovski, T.; Dolenc, 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
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

XY0507; EGU2007-A-00970; NH8.02/BG1.06-1TU2P-0507
Reyes, C.; Duenas, R.; Saltikov, C.
The role of multitheme c-type cytochromes in Shewanella sp. ANA-3 with respect to iron (III) reduction

NH8.04/BG1.04 Spatial and temporal patterns of wildfires: 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
Power, M.; Marlon, J.; Ortiz, N.; THE IGBP PALEOFIRE PROJECT
16:00–16:15; EGU2007-A-10041; 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

17:00 COFFEE BREAK
17:30–17:45; EGU2007-A-04221; NH8.04/BG1.04-ITUSO-001
Florucci, P.; Gaetani, F.; Minciardi, R.
Wildfire regime and territorial features

17:45–18:00; EGU2007-A-10819; NH8.04/BG1.04-ITUSO-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-ITUSO-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-ITUSO-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-ITUSO-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-ITUSO-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

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
Flood risk management service for the Bavarian Danube basin within EC FP6 Integrated Project PREVIEW
Cosmic impact risk: early warning and response capacity
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.; Zacccone, 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.; Bloschl, G.
Geostatistics for automatic estimation of environmental variables – simple solutions

17:30–17:45; EGU2007-A-11539; NH12-1TU6O-001
Fabbri, K.; Nagy-Rothengass, M.
Towards an information infrastructure for environmental risk management in Europe (solicited)

17:45–18:00; EGU2007-A-11540; 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, E.; 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
Lüwe, P.; Häner, R.; Fleischer, J.; Günther, M.; Wächter, J.
The role of SWE for interoperability in GITHEWS (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

19:00–19:15; EGU2007-A-06160; NH12-1TU6O-001
Ahmadian, Soamai; Mansourian, Ali; Snajd-Sereshet, M.
Investigation of Different Algorithms for Modeling Optimum Path Finding for Emergency Evacuation (solicited)

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

Convenor: Timmermann, A.
Co-Conveners: 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.; Garcia-Concepcion, O.; Ramirez-Sanchez, H.; Meulenber-Peña, A.; Garcia-Guadalup, M.
Synoptic-statistical dependence of the midsummer (Canícula) in the Mexican Republic during “El Niño” Years

XY0522; EGU2007-A-00298; NP2.01-1TU3P-0522
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.; Dommenget, 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
NP2.03 Nonlinear low-frequency variability in atmosphere-sphere, ocean and the climate system (co-listed in CL & OS) – Posters

Convener: Dethloff, K.
Co-Conveners: 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-ITU3P-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-ITU3P-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-ITU3P-0537
Zhu, X.; Fraedrich, K.; Blender, R.
Variability of the Meridional Overturning Circulation

XY0538; EGU2007-A-10643; NP2.03-ITU3P-0538
Kollosche, M.; Sempf, M.; Dethloff, K.
Atmospheric Regime Behaviour in the Southern Hemisphere

XY0539; EGU2007-A-00962; NP2.03-ITU3P-0539
Pisničkena, 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-ITU3P-0540
Dolaptchiev, S.; Klein, R.
Model equations for atmospheric motions on planetary scales

XY0541; EGU2007-A-05600; NP2.03-ITU3P-0541
Feliks, Y.; Ghil, M.
Interannual, synchronized oscillations over the North Atlantic, Eastern Mediterranean and Ethiopian Plateau

XY0542; EGU2007-A-08992; NP2.03-ITU3P-0542
Chekroun, M.; Ghil, M.; Simonnet, E.
Rigorous treatment of limit cycles in periodically forced quasi-geostrophic models

XY0543; EGU2007-A-04791; NP2.03-ITU3P-0543
Pierini, S.
Geometrical effects in a double-gyre model of the Kuroshio Extension

NP3.01 Scale, scaling and nonlinear variability in aquatic biogeosystems (co-listed in BG & OS) – Posters

Convener: Schmitt, F.
Co-Conveners: Nikora, V.; Morozov, S.; Brand, S.
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-ITU4P-0545
Nikora, V.
Biophysical Coupling in Benthic Ecosystems: Scales, Hydrodynamic Equations, Double-Averaging Methodology

XY0546; EGU2007-A-09975; NP3.01-ITU4P-0546
Li, M.-Y.; Michalak, A. M.; Adriaens, P.
Reproducing Spatial Variability Using A Novel Multi-Scale Model: An Example with Dioxin Data from Sediments in an Estuarine River

XY0547; EGU2007-A-00455; NP3.01-ITU4P-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-ITU4P-0548
Huang, Y.X.; Schmitt, F.G.; Li, 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-Conveners: 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-ITU4P-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-ITU4P-0550
Kordzadze, A.; Surnava, 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-ITU4P-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-ITU4P-0552
Jackson, I.; Hallberg, R.; Legg, S.
A parameterisation of shear-driven turbulence for ocean climate models.

XY0553; EGU2007-A-11402; NP3.02-ITU4P-0553
Zhang, F.; Wei, N.; Rotunno, R.; Snyder, C.
A multisite error growth conceptual model for moist atmospheric predictability
A multiscale model for the interaction of bulk microscale hot towers with convective scale motions

A new anisotropic dynamic model for LES: Application to stable boundary layers

Out of equilibrium statistical mechanics and stochastic dynamics of two dimensional flows

The scaling properties of meteorological analyses and numerical models of the atmosphere

The Space-time evolution of atmospheric structures: the role of the vertical velocity

Long-range Correlations in the Atmospheric Greenhouse Effect and the Ozone Dynamics: Facts and Illusions (cancelled)

Multifractal non-stationarity effects on atmospheric extreme events

Causes and consequences of the critical periods in the Earth history

Long-term memory in 1000 years simulated temperature records

Scaling properties of fine resolution point rainfall and inferences for its stochastic modelling

The L^{1/2} particle number law in rain

Multifractal time series

A log-FARIMA truncated model generating discrete time stochastic projection method under the uncertainty formulation of

Out of equilibrium statistical mechanics and stochastic dynamics of two dimensional flows

A multiscale model for the interaction of bulk microscale hot towers with convective scale motions

Statistical-geometric tools for studying vector and tensor-based parameterizations for geophysical transport processes

Using the multi-domain Chebyshev spectral method to approximate the electric charge density in 3D resistivity forward modelling problem

Statistical-geometric tools for studying vector and tensor-based parameterizations for geophysical transport processes

The L^{**1/2} particle number law in rain (cancelled)
NP.06 Dynamics of Seismicity Patterns and Earthquake Triggering (co-listed in SM) – Posters

Convenor: Hainzl, S.
Co-Conveners(s): Zoeller, G., Main, I.
Display Time: Tuesday, 08:00–19:30

XY0579; EGU2007-A-00324; NP3.06-1TU4P-0579
Matcharashvili, T.; Chelidze, T.; Khutishvili, T.; Zhukova, N.; Mephardize, E.
Control of temporal distribution of stick slip acoustic emission by periodic electromagnetic forcing

XY0580; EGU2007-A-00625; NP3.06-1TU4P-0580
Matcharashvili, T.; Peinke, J.; Chelidze, T.; Gogiashvili, J.L.; Lursmanashvili, O.; Jakavkhishvili, 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.; Gabrielson, 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
Mignon, 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
Chao, C.; Ma, K.
Stress evolution associated 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

NP.07 Scale, Scaling, and nonlinearity in Solid Earth (co-listed in GMPV, NH, SSS & TS) – Posters

Convenor: Cheng, Q.
Co-Conveners(s): Gaonac’h, H., Tarquis, A.
Display Time: Tuesday, 08:00–19:30

XY0588; EGU2007-A-08352; NP3.06-1TU4P-0588
Christopher, A.; Smith, E.G.C.
Modelling temporal earthquake occurrence from days to decades

XY0589; EGU2007-A-08173; NP3.06-1TU4P-0589
Haydiz, 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.; Daminielli, 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.; Milikereit, 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
Martinez-Diaz, J. J.; Alvarez-Gomez, J. A.; Garcia-Mayordomo, J.; Insua, J.
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.; Béhoux, N.; Masson, F.; Ritz, J.-P.
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.; Zednik, J.; Koteck, J.
Does deep CO2 discharge listen to distant and local earthquakes?

XY0598; EGU2007-A-09034; NP3.06-1TU4P-0598
Leemarchand, N.; Grasso, J.-R.
Interrelationship between earthquakes and volcano eruptions
XY0601; EGU2007-A-01546; NP3.07-1TU4P-0601
Dependence of multifractal analysis on image resolution and noise (solicited)

XY0602; EGU2007-A-02420; NP3.07-1TU4P-0602
Sotolongo-Costa, O.; Gamez, R.; Posadas, A.
Dynamical 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 properties (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 series processing in Geosciences

XY0610; EGU2007-A-10874; NP3.07-1TU4P-0610
del Monte, J.P.; Aguado, F.; 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.; Phituela, 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)

XY0614; EGU2007-A-05232; NP3.08-1TU4P-0614
de Lima, J.LMP; 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.
Characterization of fractured media: laboratorial tests and numerical modelling

XY0616; EGU2007-A-10652; NP3.08-1TU4P-0616
Nunes, J.P.; de Lima, J.P.; Singh, VP.; 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
Nunes, J.P.; Moreau, F.; Dauteuil, O.
Scaling of fracture network in Al hijeb lias aquifer (Morocco)

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.; 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 hydrological 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

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

de Lima, J.LMP; Duarte, CAF; Isidoro, JMGP; de Lima, MIP
Runoff and associated transport processes in urban areas
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-08065; 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-08059; 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
Mikosovský, 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-Lopez, 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.; Tiamo, K. F.
Describing seismic pattern dynamics by means of Ising Cellular Automata (solicited)

XY0636; EGU2007-A-05775; NP4.01-1TU3P-0636
Jiménez, A.; Tiamo, K. F.; Posadas, A. M.
Functional networks in earthquake networks

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-05249; 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; sainrouni, A; toda, J; cunillera, J
Application of NN for improve extremal temperature forecasts over catalonia.

XY0645; EGU2007-A-10666; 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
Koutsouyiannis, 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.; Polesh, J.; Godtliebsen, F.
A propagation-separation approach to estimating the autocorrelation in a time-series

XY0651; EGU2007-A-01600; NP4.02-1TU3P-0651
Divine, D.; Godtliebsen, 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
NP4.03 Simple dynamical models from data: a tool for parametrizations and diagnostics (co-listed in CL) – Posters

Conveners: von Hardenberg, J.
Co-Conveners (s): D’Andrea, F.
Display Time: Tuesday, 08:00–19:30
Poster Area Halls X/Y
Chairperson: N.N.

XY0658; EGU2007-A-03022; NP4.03-1TU3P-0658
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

XY0659; EGU2007-A-04444; 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 intermitttnity 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) – Posters

Conveners: Kossobokov, V.
Co-Conveners (s): Keilis-Borok, V., Panza, G., Simon, F., Roulhan, B.
Display Time: Tuesday, 08:00–19:30
Poster Area Halls X/Y
Chairperson: MOHTARI, 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-02099; 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.; Fukuo, 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
Pupa, 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)

XY0687; EGU2007-A-07461; NP5.01-1TU5P-0687
Binter, R.; Broecker, J.; Penzer, J.; Smith, L.A.
Contrasting methods of ensemble interpretation (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
An analysis of different bias-correction algorithms in a synthetic environment

XY0698; EGU2007-A-07389; NP5.01-1TU5P-0698
Machete, R. L.; Broecker, J.; Kilminset, 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.

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
Objectives of the THORPEX working group on data assimilation and observing strategies for high impact weather forecast improvements

Correction of the Barotropic Mode in Data Assimilation Experiments with AMIC

Key Analysis Errors and Airborne Wind LIDAR Measurements

Mass retrieval and a posteriori error analysis using non-linear inverse modelling techniques applied to atmospheric tracers

Estimating background-error covariances for variational ocean data assimilation using an ensemble method

Comparison of the SIRF and EnKF on the Lorenz two scale system

State and parameter estimation for a coupled ocean–atmosphere model

Improved methods for bias correction with ensemble filters in seasonal forecast systems

Operational flood risk management based on ensemble predictions – Mulde case study

Operational flood risk management based on ensemble predictions – Mulde case study

Pair Dispersion in Turbulence

Transport dynamics in the Western Mediterranean: Stretching fields and hyperbolic lines (solicited)

From Ensembles to Predictive Distribution Functions

How many models should be used for multi-model ensembles in catchment hydrology?

Bayesian calibration of earth systems models

Data assimilation: using Indistinguishable States to solve Berliner’s problem of chaotic likelihoods

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From Ensembles to Predictive Distribution Functions

How many models should be used for multi-model ensembles in catchment hydrology?
Meeting Programme

9:00–9:15; EGU2007-A-05110; NP6.01-1TU1O-003
Ide, K.; Wiggins, S.
A method for the estimation and analysis of transport processes 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
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)
Conveners: Rey, V.
Co-Conveners(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.; Terletski, 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
Conveners: Montabone, L.
Co-Conveners(s): Chashechkin, Y.; Redondo, J.
Lecture Room 22
Chairperson: RÉDONDO J.M.

Shipston, 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
Conveners: Dalziel, S.
Co-Conveners(s): Fruh, W.
Lecture Room 22
Chairperson: DALZIEL S.

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
Conveners: Dalziel, S.
Co-Conveners(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.; Kemarskaya, O.N.; Kopensova, 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, A.
Absolute calibration of the Jason-1 altimeter during the cruise along the Drake passage by ship - buoy GPS measurements

XY0735; EGU2007-A-05072; NP6.04-1TU3P-0735
Zurita-Gotor, P.
Evaluation of quasi-geostrophic turbulent closures in a two-layer model with barotropic structure

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: YAGUE, 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
Chenel, 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

Ocean Sciences

OS7 High latitude changes in ocean, ice and climate (co-listed in CR & CL)
Convener: Döscher, R.
Co-Convener(s): Mauriten, C.
Lecture Room D
Chairperson: DOSCHER, R.
8:30–8:45; EGU2007-A-04623; OS7-1TU1O-001
Koenig, M.; The LULI Laboratory Team
Laboratory Astrophysics Experiments At LULI Laboratory (solicited)

8:45–9:00; EGU2007-A-06960; OS7-1TU1O-002
Sorriso-Valvo, L.; Carbone, V.; Marino, R.; Bruno, R.; Noullez, A.
Sea ice ice thickness from 26 years of US Navy submarine cruises

9:00–9:15; EGU2007-A-05027; OS7-1TU1O-003
Decadal Arctic Climate Variability and the role of oceanic and atmospheric heat transports

9:15–9:30; EGU2007-A-01927; OS7-1TU1O-005
Walczowski, W.; Piechura, J.
Northward propagation of warm signal within the West Spitsbergen Current

9:30–9:45; EGU2007-A-01927; OS7-1TU1O-005
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
OS8 Variability in the Southern Ocean (co-listed AS,CL,BG,CR)

Conveners: Provost, C.
Co-Conveners(s): Fahrbach, E.
Lecture Room D
Chairperson: PROVOST, C.

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
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.; Schodlok, 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.; Ansorge, 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
Planetary and Solar System Sciences

PS1.4 Experimental Planetology - Space simulations in laboratory – Posters

Conveners: Colangelo, 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
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
Carbonic acid produced by UV/EUV photon irradiation of interstellar ice analogues

PS2.0 Open Session on Terrestrial Planets – Posters

Conveners: Ziethe, R.
Co-Convener(s): Benkhoff, J.
Display Time: Tuesday, 08:00–19:30

**Authors in Attendance: Tuesday, 13:30–15:00**

Poster Area Halls X/Y
Chairperson: N.N.

XY0740: EGU2007-A-05417; PS2.0-1TU1P-0740
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 BepiColombo/MMO: The physical basis of the MMO Science Operation Plan

XY0744: EGU2007-A-11379; PS2.0-1TU1P-0744
Hayakawa, H.; AXA/BepiColombo Project
AXA/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.; Cremone, 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
Luecke, S.; Deutsch, A.; Kreher-Hartmann, B.; Berntd, 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.; Alouissié, T.; Brito, D.
Dendritic core crystallization of iron meteorites parent bodies

XY0755: EGU2007-A-01938; PS2.0-1TU1P-0755
Ziethe, R.; Nystenegger, O.; Benz, W.
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?
**Meeting Programme**

**PS2.1 Venus Express: one year in orbit**

Convener: Titov, D.
Co-Conveners: Svedhem, H.
Lecture Room 15 (F2)
Chairperson: N.N.

Taylor, FW
Venus: Comparative Planetology (Invited) (solicited)

13:45–14:00; EGU2007-A-11595; PS2.1-1TU3O-002
Venus Express – One Year in Orbit (solicited)

14:00–14:15; EGU2007-A-11286; PS2.1-1TU3O-003
Highlights of the first year of the Venus Express observations (solicited)

14:15–14:30; EGU2007-A-11283; PS2.1-1TU3O-004
SPICA/ SOIR investigation of the upper atmosphere of Venus (solicited)

14:30–14:45; EGU2007-A-09742; PS2.1-1TU3O-005
The Venus upper haze from SPICA/ SOIR infrared experiments on Venus-Express

Piccioni, G.; Drossart, P.; VIRTIS-Venus Express Team
Observations of Venus by VIRTIS on Venus Express (solicited)

15:15 COFFEE BREAK

Chairperson: N.N.

Yung, Y.; Liang, M.; Jiang, X.; Lee, C.; Bezard, 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
Morphology and dynamics of the Venus upper cloud layer (solicited)

16:15–16:30; EGU2007-A-08560; PS2.1-1TU4O-004
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
The structure of the Venus neutral atmosphere from the Radio Science Experiment VExRa

16:45–17:00; EGU2007-A-07445; PS2.1-1TU4O-006
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 MAGIC 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 ionospheric indicative of lightning

18:15–18:30; EGU2007-A-08803; PS2.1-1TU5O-004
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
The Venus Entry Probe mission proposal (solicited)

19:00 END OF SESSION

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**XY0758; EGU2007-A-00946; PS2.0-1TU1P-0758**
Klitashvili, L.
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"
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.
Ground-based high spatial resolution mapping of Venus dynamics in the upper atmosphere by IR heterodyne spectroscopy

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, É.; Bézard, B.; Drossart, P.
Analysis of VIRTIS-H nightside spectra in the 2.3-µm 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
Ground-based observations of the Venus 1.27-micron O2 airglow and rotational temperature

XY0768; EGU2007-A-11284; PS2.1-1TU2P-0768
First cloud-track winds from the Venus Express VMC images (solicited)

XY0769; EGU2007-A-09237; PS2.1-1TU2P-0769
Young, E.; Bullock, M.; Raftin, S.; Coyote, S.; Taverner, T.; Limaye, S.
Zonal winds in Venus’ lower and middle cloud deck from IRIF 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 mid-infrared observation of microstructures at the Venus cloud-top level (solicited)

XY0772; EGU2007-A-11290; PS2.1-1TU2P-0772
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.; Andreew, 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.; Hoey, 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 Venussian bow shock (solicited)

XY0780; EGU2007-A-09051; PS2.1-1TU2P-0780
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
Barthelmey, M.; Zender, J.; Heathier, 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
Convenor: 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.; Kuznetsov, 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-00789; PS2.2-1TU2P-0790
Jian, J. J.; Ip, W. H.
The Spatial Distribution and Seasonal Evolution of Cryptic Region

XY0791; EGU2007-A-08195; PS2.2-1TU2P-0791
Azuma, N.; Ohba, Y.; Maeda, T.; Ishii, T.
I Mechanical properties of dust and ice mixtures expected in the Martian polar caps and permafrost

XY0792; EGU2007-A-04758; PS2.2-1TU2P-0792
Kochesnov, G.
Zeolite-rich spreusteins after alkaline rocks or smectites of unknown origin find the martian rover Spirit and OMEGA, HRSC instruments of Mars Express?

XY0793; EGU2007-A-00589; PS2.2-1TU2P-0793
Ultramafic Rocks at Gusev Crater, Mars, and their Relationship to Martian Meteorites.

XY0794; EGU2007-A-08411; PS2.2-1TU2P-0794
Mensae, Mars.

XY0795; EGU2007-A-01725; PS2.2-1TU2P-0795
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

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
Martin-González, P.; de Pablo, M.A.; Pacifici, A.
Alignments mapping and structural analysis of western sector of Nephehntes Mensae, Mars.

XY0799; EGU2007-A-07796; PS2.2-1TU2P-0799
MARSIS Active Ionospheric Sounding: a survey of electron density profile results

XY0800; EGU2007-A-04682; PS2.2-1TU2P-0800
Detection of an upper layer in the topside ionosphere of Mars using the Mars Express ionospheric sounder

XY0801; EGU2007-A-05430; PS2.2-1TU2P-0801
Saiger, P.; Preusker, F.; Wachtischi, M.; Asche, H.; Oberst, J.; Jaumann, R.; Neukum, G.
Analysis of Mars data using ArcOBJECTS, ModelBuilder and MySQL

XY0802; EGU2007-A-06816; PS2.2-1TU2P-0802
Michael, G.; Walter, S.; Neukum, G.
HRSCview: A web-based data exploration system for Mars Express HRSC

XY0803; EGU2007-A-07559; PS2.2-1TU2P-0803
Thomas, N.; Bell, J.F.; Grant, J.; Herkenhoff, K.; McElwen, A.S.; Russell, P.; THE HIRISE TEAM
HiRISE photometric observations of the Opportunity landing site and Mawrth Vallis.

XY0804; EGU2007-A-04587; PS2.2-1TU2P-0804
Kanao, M.; Futanaka, 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

XY0805; EGU2007-A-05150; PS2.2-1TU2P-0805
Kirchner, D.L.; Garnett, D.A.; Winningham, J.D.; Safaeinili, A.; Plaut, J.; Picardi, G.
Auroral ionization patches on the nightside of Mars

XY0806; EGU2007-A-02229; PS2.2-1TU2P-0806
Averkamp, T.F.; Nielsen, E.; Plaut, J.; Picardi, G.
Electron densities in the ionosphere of Mars from the frequency of electron plasma oscillations detected by Mars Express

XY0807; EGU2007-A-04617; PS2.2-1TU2P-0807
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

XY0808; EGU2007-A-04632; PS2.2-1TU2P-0808
Duru, F.; Garnett, D.A.; Morgan, D.D.; Plaut, J.J.; Picardi, G.
MARSIS Active Ionospheric Sounding: a survey of electron density profile results

XY0809; EGU2007-A-09435; PS2.2-1TU2P-0809
Detection of an upper layer in the topside ionosphere of Mars using the Mars Express ionospheric sounder

XY0810; EGU2007-A-05430; PS2.2-1TU2P-0810
Leer, K.; Gilli, G.; Gurnett, D.A.; Morgan, D.D.; Plaut, J.J.; Picardi, G.
Auroral ionization patches on the nightside of Mars

XY0811; EGU2007-A-04587; PS2.2-1TU2P-0804
Kanao, M.; Futanaka, 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

XY0812; EGU2007-A-04617; PS2.2-1TU2P-0807
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

XY0813; EGU2007-A-04632; PS2.2-1TU2P-0808
Duru, F.; Garnett, 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

XY0814; EGU2007-A-04632; PS2.2-1TU2P-0808
Duru, F.; Garnett, 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

PS4 Small Bodies and Dust
Convener: Krueger, H.
Co-Conveners: Schwemm, G., Müller, T.
Lecture Room & Chairperson: N.N.
14:00–14:15; EGU2007-A-06404; PS4-1TU1O-004
Bergh, C.; Vernazza, P.
Properties and temperature determination of the icy surface of the TNO 136108 (2003 EL61)

14:45–15:00; EGU2007-A-09731; PS4-1TU3O-005
Murray, J.B.
New interpretation of the clustering of long-period comet aphelion distances
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

12:15 LUNCH BREAK

Chairperson: N.N.

Cowee, M.M.; Russell, C.T. Discontinuity in Jupiter’s main auroral oval. and the effects of ENA detection

13:45–14:00; EGU2007-A-09492; PS5-1TU3O-002
Thermal electrons in Saturn's magnetotail
drews, H.J.; Russell, C.T.

14:00–14:15; EGU2007-A-03102; PS5-1TU3O-003

14:15–14:30; EGU2007-A-05667; PS5-1TU3O-004
Perspectives of solar system environment observations by means of ENA detection
Orsini, S.; Milillo, A.; Di Lellis, A.M.

14:30–14:45; EGU2007-A-04627; PS5-1TU3O-005
Kurth, W.S.; Persoon, A.M.; Kurth, W.S.; Wahlund, J.E.; Dougherty, M.K.; Southwood, D.J. The origin of Saturn’s variable radio modulation period

14:45–15:00; EGU2007-A-06428; PS5-1TU3O-006
Vasyliunas, V Periodicities in the magnetosphere of Saturn: making the distinctions

15:00–15:15; EGU2007-A-06066; PS5-1TU4O-001

15:15–15:30; EGU2007-A-09212; PS5-1TU4O-003

16:00–16:15; 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

16:15–16:30; EGU2007-A-04945; PS5-1TU4O-005

16:45–17:00; EGU2007-A-09969; PS5-1TU4O-006

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. Dougerty, 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

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

19:30 END OF SESSION
Seismology

SM2 Controlled and natural source seismic investigations of crust and upper mantle

Convener: Carbonell, R.
Co-Conveners: Thybo, H.
Lecture Room 26
Chairperson: THYBO, H
10:30–11:00; EGU2007-A-05805; SM2-ITU2O-001

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-ITU2O-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-ITU2O-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-ITU2O-004

Dinc Akdogan, A.N.; Arroyo, I.; Thorwart, M.; Koulokov, I.; Rabbel, W.; Flueh, E.
A combined tomographic inversion of two independent amphibious networks in Costa Rica

11:45–12:00; EGU2007-A-03627; SM2-ITU2O-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-ITU3O-001

Oncken, O.; Sobolev, S.
Deep architecture and processes of an active orogen – the Andes (solicited)

14:00–14:15; EGU2007-A-04180; SM2-ITU3O-002

Groß, K.; Buske, S.; Shapiro, S. A.; Wigger, P.; TIPEQ Research Group, X.
Advanced seismic imaging of deep seismic reflection data

14:15–14:30; EGU2007-A-09166; SM2-ITU3O-003

Thybo, H.
Influence of magmatism on the Moho

14:30–14:45; EGU2007-A-06191; SM2-ITU3O-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-ITU3O-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

Can, B.; Gurbuz, C.
The crustal and upper mantle shear wave velocity structure beneath Eastern Turkey

15:45–16:00; EGU2007-A-06662; SM2-ITU4O-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-ITU4O-003

Dolgikh, G.I.; Khodkevich, E.D.; Novotny, V.V.
Spectral analysis of the Earth crust microdeformations in the land-ocean transition zone

16:15–16:30; EGU2007-A-01882; SM2-ITU4O-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-ITU4O-005

Kovalsky, V.; Alekseenk, V.; Ginsky, B.
Earth’s global tomography with the use of vibrating sources

16:45–17:00; EGU2007-A-01021; SM2-ITU4O-006

Fowlexer, R.
Conserving soil or water: accelerating the adoption of Conservation Agriculture in South East Africa

17:00 END OF SESSION
SM2 Controlled and natural source seismic investigations of crust and upper mantle – Posters

Conveners: Carbonell, R. Co-Conveners: Thybo, H. Display Time: Tuesday, 08:00–19:30 Authors in Attendance: Tuesday, 17:30–19:00 Poster Area Hall A Chairpersons: 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

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

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

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

A0351; EGU2007-A-04070; SM2-1TU5P-0351
Silvennoinen, H.; Kozlovskaya, E; Ylimestone, 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

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 CELEBRA TION2000 project

A0356; EGU2007-A-06693; SM2-1TU5P-0356
Zych, A.; Kopp, H.; Bohm, M.; Asch, G. Accurate depths to Moho beneath the highlands of southern Norway resolved by teleseismic receiver functions

A0357; EGU2007-A-06685; SM2-1TU5P-0357
Wylegalla, K.; Schweitzer, J. Accurate depths to Moho beneath the highlands of southern Norway resolved by teleseismic receiver functions

A0358; EGU2007-A-04070; SM2-1TU5P-0358
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

A0359; EGU2007-A-06585; SM2-1TU5P-0359

A0360; EGU2007-A-07679; SM2-1TU5P-0360
Roselli, P.; Piana Agostinetti, N.; Braun, T. Crustal and Upper-Mantle three-dimensional stratification and Anisotropy from Receiver Functions (Northern Apennines-Italy)

A0361; EGU2007-A-08840; SM2-1TU5P-0361
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

A0362; EGU2007-A-06117; SM2-1TU5P-0362
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.

A0363; EGU2007-A-06135; SM2-1TU5P-0363
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

Sébe, 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

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.; Rümpker, 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.; Zandi, 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.; Thbyo, 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 – Posters

Convener: Artemieva, I.
Display Time: Tuesday, 08:00–19:30

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 chronostatigraphy 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)
Meeting Programme

Chairperson: N.N.
Lecture Room 6 (K)

Convener: TA YMAZ, T.

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
Walthier, M; Plenefisch, T
Automated solution 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
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 HUHKA 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, SIT; WG, BEAR; WG, EMMA
Continental mantle root deep analysis: a 620-km-long cross section of the Archean Karelian cratong (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 cratong (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 Marapara Sea (solicited)

18:00–18:15; EGU2007-A-04153; SM13-1TU5O-003
Konstantinou, K.; Melis, N.; Boukouras, K.; Stavarakakis, 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.; Hübischer, 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.; Özlayabay, 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 & focal mechanisms: 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.; Yalciner, A.;
Source Characteristics of Earthquakes along the Hellenic and Cyprian Arcs and Simulation of Historical Tsunamis (solicited)

A0388; EGU2007-A-07086; SM13-1TU2P-0388
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.; Akar, M.; Detailed relocation of aftershock seismicity of the 17 August 1999 Izmit earthquake (solicited)

A0390; EGU2007-A-09678; SM13-1TU2P-0390

A0391; EGU2007-A-10198; SM13-1TU2P-0391

A0392; EGU2007-A-10212; SM13-1TU2P-0392
Irmak, T.S.; Grosser, H.; Ozer, M.F.; Woith, H.; Baris, S.; The 24 October 2006 Genlik Earthquake (M=5.2) (solicited)

A0393; EGU2007-A-11133; SM13-1TU2P-0393
Irmak, T.S.; Taymaz, T.; Ozer, M.F.; Asperities and barriers map of Colliorito 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)
Conveneer: Cerda, A.
Co-Conveneer(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, JLPMP; Souza, CS; Singh, VP; Azevedo, JMM; de Lima, MIP; 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


10:00 COFFEE BREAK
Meeting Programme

Laloy, E.; Bielders, 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; SSS13-1TU4O-002
Flanagan, D.
Erosion prediction technology development in the United States.

16:00–16:15; EGU2007-A-01213; SSS13-1TU4O-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; SSS13-1TU4O-004
Casadei, M.; Farabegoli, E.; Tosi, M.
Modeling the effect of agricultural practice on soil loss and surface hydrology in mediterranean clayey hillslopes

16:30–16:45; EGU2007-A-00006; SSS13-1TU4O-005
Kinnell, P.
Modelling event runoff using a modification of the Universal Soil Loss Equation

16:45–17:00; EGU2007-A-11299; SSS13-1TU4O-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: Cerda, 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.; Sempera, J.G.; Cerda, 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.; Guerrero, 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-08066; 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.; Mametsov, A.I.
Changes in Eroded Material and Runoff as Affected by Rainfall Depth and Aggregate Slaking in Three Semi-arid Region Soils

A0412; EGU2007-A-05041; SSS13-1TU5P-0412
Ries, J. B.; Wistofr, S.; Fister, W.
Rainfall simulation experiments – drop size, drop size distribution and fall velocity of artificial rainfall
A0414: EGU2007-A-03933; SSS13-1TU5P-0414
Zorn, M.; Miko, M.; Petan, S.; Mikloš, 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.; Boughliassa, 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.; Soriani, M.D.; Llianes, 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.; Giráldez, 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
Ciobotaru, 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; Albala dejo, 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.; Bittelli, 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
Convenor: Forsyth, R. Co-Convenor(s): Bothmer, V. Lecture Room 15 (F2) Chairperson: FORSYTH, R.
8:30–8:45; EGU2007-A-10956; ST3-1TU1O-001
Kretzschmar, M.; Dudok de Wit, T; Lilensten, J.; Aboudarham, J.; Amblard, P.O.; Auchère, F.; Moussas, D. Statistical analysis of Solar Irradiance

8:45–9:00; EGU2007-A-03318; ST3-1TU1O-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; ST3-1TU1O-003
Vilmér, 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; ST3-1TU1O-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; ST3-1TU1O-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; ST3-1TU1O-006

10:00 COFFEE BREAK

Chairperson: BOTHMER, V. 10:30–11:00; EGU2007-A-04527; ST3-1TU2O-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; ST3-1TU2O-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; ST3-1TU2O-003
Vandas, M.; Geranios, A.; Romashets, E. Comparison of observations and a model of magnetic clouds

11:30–12:00; EGU2007-A-02212; ST3-1TU2O-004
Meeting Programme

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., Pottelette, 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 plasma

XY0817; EGU2007-A-07797; ST9-1TU2P-0817
Nordblad, E.; Stasiewicz, K.
Nonlinear Alfven Waves in Plasmas with Collisional Damping and Density Gradients

XY0818; EGU2007-A-00095; ST9-1TU2P-0818
Simoes 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.; Reme, H.; Kucharek, H.; Westergom, 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.; Andre, 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.; Lakshman, 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.; Lembge, 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.; Blecky, J.; Buechner, J.; Rauch, J.L.; Smirnov, V.; Novikov, D.
A nonlinear Alfvenic 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
Blecky, 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.; Kraenz, M.; Korth, A.; Khotyantsev, 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
Parametric study of sweep rates of wave packets of whistler mode chorus

XY0831; EGU2007-A-06629; 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.; Komjima, 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
Characteristics of low latitude boundary layer and the magnetosheath plasma penetration inside the magnetosphere

XY0836; EGU2007-A-11456; ST9-1TU2P-0836
Lu, Q. M.; Tao, J. B.; Lembge, B.; Wang, S.
Electron phase-space holes in a two-dimensional plasma

XY0837; EGU2007-A-07486; ST9-1TU2P-0837
Lu, Q. M.; Tao, J. B.; Lembge, B.; Wang, S.
Electron phase-space holes in a two-dimensional plasma

XY0838; EGU2007-A-05204; ST9-1TU2P-0838
Ekeberg, J.; Stasiewicz, K.; Leyser, T. B.; Eliasson, L.
Role of solitary waves in producing enhanced ion-acoustic lines in incoherent radar spectra

XY0839; EGU2007-A-03502; ST9-1TU2P-0839
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

XY0840; EGU2007-A-04659; ST9-1TU2P-0840
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

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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 Hall 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
Darrouzet, F.; De Keyser, J.; Décéreau, 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, plasmapause 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 Salammbô 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.; Øksavik, 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 Hall 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.
Display Time: Tuesday, 08:00–19:30
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-Durt, 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; ST13-1TU4O-006
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
Neubert, T.; THE CAL TEAM
Global circuit air-Earth conduction current density measurements for solar-terrestrial studies

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
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; SSP4-1TU1O-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; SSP4-1TU1O-005
Ganjeon, D.; Roure, F.; Wolf, S.; Alzaga-Ruiz, H.
Use of 3D integrated stratigraphic and structural model
9:45–10:00; EGU2007-A-03826; SSP4-1TU1O-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.; Hözel, M.; Strauss, P.; Wagreich, M.; Zamolyi, L.
Tectonic evolution of the Alpine-Carpathian junction during the Early Miocene [Karpatic Tectonics]
A0435; EGU2007-A-09476; SSP7-1TU1P-0435
Hözel, 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 Viennese Vienna Basin margin (Badenian, Middle Miocene) and their palaeocological and paleogeographical significance
A0437; EGU2007-A-03316; SSP7-1TU1P-0437
Koukal, V.; Wagreich, M.; Salcher, B.
Pliocene conglomerates (Ruhrbach Formation) in the southern Vienna Basin (Lower Austria)

A0438; EGU2007-A-10121; SSP7-1TU1P-0438
Tîlia, 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
Vasilev, I.; deLeeuw, A.; Matenco, L. C.; Krijgsman, W.; Snell, 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.; Pávelic, D.; de Leeuw, A.; Krijgsman, W.
An integrative study of lacustrine successions of the Sinj Basin (Miocene Dinaride Lake System, SE Croatia) - palaeontology, depositional history, cyclostratigraphy and paleomagnetics
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
KaramiArokhloo, 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; SSP10-1TU1O-001
Recent sedimentological processes in the Var canyon; results from in-situ measurements and recurrent interface coring
8:45–9:00; EGU2007-A-08377; SSP10-1TU1O-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; SSP10-1TU1O-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-06919; 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.; Stüben, D.
What do black shales and red beds have in common?

12:00 LUNCH BREAK

Chairperson: N.N.
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.
Palaeoceanographic 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
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.
Quaternary radiolarian assemblages as indicators for palaeoceanographic 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 Visean, 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 (Zeche Z2): implications for the influence of salt migration-related processes

A0447; EGU2007-A-07816; SSP14/CL44-1TU5P-0447
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
Early Triassic noxious benthic environments in the Lower &#8211; Middle Triassic sediments, the South Kitakami terrane, northeast Japan

A0449; EGU2007-A-04397; SSP14/CL44-1TU5P-0449
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 d18O.

A0451; EGU2007-A-04411; SSP14/CL44-1TU5P-0451
Jadoul, F.; Lanfranchi, A.; Casellato, C.E.; Berra, M.T.; Galli, M.T.
Stratigraphic evolution and palaeogeographic 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 palaeoclimatic signals from the Bugeci 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.; Waillich, G.M.D
Microbial-Foraminiferal Episodes in the Lower Aptian of Oman – the Signature of Oceanic Anoxic Event 1a in shallow-marine Carbonate Deposit?

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.; Tedde Ruggiero, E.

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.; von Itterbeeck, J.; Schulte, P.; Steurhaut, E.; Speijer, R.P.
Stable isotope signature (d13C, d18O) of marine ostracods from the Danian/Selandian boundary (Paleocene, Tunisia)

A0463; EGU2007-A-09698; SSP14/CL44-1TU5P-0463
Luciani, V.; Aagni, C.; Fornaciari, E.; Giussberti, L.; Backman, J.; Rio, D.
High resolution study on planktonic foraminifera across the Paleocene-Eocene thermal maximum in the expanded Tethyan Forada section (Italy): palaeoecological 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
Scherbinina, 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.
Mid-Cretaceous 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)


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 Crotone Basin (Southern Italy) at about 3.7-3.6 Ma.


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

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?


A0478; EGU2007-A-02369; SSP16/CL45-1TU5P-0478 Kuge, T.; Aeschbach-Herlig, W. The way to noble gas paleotemperatures derived from fluid inclusions in stalagmites


A0480; EGU2007-A-02827; SSP16/CL45-1TU5P-0480 DAPHNE Team, The; The DAPHNE Team DAPHNE – Dated speleothems: Archives of the paleoenvironnment

A0481; EGU2007-A-02897; SSP16/CL45-1TU5P-0481 Romanov, D.; Kaufmann, G.; Dreybrodt, W. Modeling stalagmite growth based on physical and chemical principles


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


A0485; EGU2007-A-04500; SSP16/CL45-1TU5P-0485 Muñoz-García, M. B.; Martín-Chivelet, J.; Rossi, C.; Ford, D. C.; Schwartz, H. P. High mountain climate in Northern Spain between 155 and 85 yr 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 d18O and d13C 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


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


Meeting Programme

A0492; EGU2007-A-06374; SSP16/CL45-1TU5P-0492
Scheidegger, Y.; Badertscher, S.V.; Drieser, Th.; Wieler, R.; Heber, V.S.; Kipfer, R.
Microscopical speleothem calcite investigations proving 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
Verfaille, T.; Verheyden, S.; Keppens, E.
Coinciding late Holocene δ13C and δ18O time series in stalagmites from different caves in Belgium.

A0495; EGU2007-A-07396; SSP16/CL45-1TU5P-0495
Pirson, S.; Court-Picon, M.; Damblon, F.; Haezaerts, 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
High resolution climate isotopic record of the Last Interglacial provided by a stalagmite in cave entrance from the Alps

A0500; EGU2007-A-10084; SSP16/CL45-1TU5P-0500
Couchoud, I.; Genty, D.; Blamart, D.; Gilmour, M.
Sedimentary, geochemical and palynological proxies of 3rd order eustatic fluctuations: An example from the Middle Triassic (Anisan) of Central Europe

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 paleoclimatic series based on stalagmites

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SSP20 Epeiric shelves - geochemistry, sedimentology, paleohydrology (co-sponsored by IAS)

15:30–15:45; 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

15:45–16:00; EGU2007-A-03119; SSP20-1TU5O-002
Pratt, B.R.
Tsunamis in ancient epeiric seas

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16:00–16:15; EGU2007-A-03774; SSP20-1TU5O-003
Watzel, 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

16:15–16:30; 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 (Anisan) of Central Europe

16:30–16:45; 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

17:00–18:15; EGU2007-A-03140; SSP20-1TU5O-006
Qing, H.
Dolomitization of Ordovician epeiric carbonate rocks, northern Williston Basin, Southeastern Saskatchewan, Canada

19:00 END OF SESSION

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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
Vatteville, 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.

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.
Modeling polyphased deformation in salt tectonics

16:00–16:15; EGU2007-A-10065; TS1.1-1TU4O-003
Sobolev, S.V.; 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-ITU4O-005
Mourues, R.
Strengths and limits of analogue models involving fluid overpressures

16:45–17:00; EGU2007-A-05030; TS1.1-ITU4O-006
Schlagenhaft, 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-ITU1O-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-ITU1O-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-ITU1O-003
Philipp, S.L.; Bartels, 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-ITU1O-004
Putz, M.; Sanderson, D.
Fault drag – extension, inversion or flanking structures?

9:30–9:45; EGU2007-A-03292; TS1.2-ITU1O-005
Exner, U.; Dabrowski, M.
3D fault drag – triclinic structures or triclinic flow?

9:45–10:00; EGU2007-A-03574; TS1.2-ITU1O-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-ITU2O-001
Fletcher, R. C.
Rheological behavior in decollement folding: Appalachian Plateau (solicited)

11:00–11:15; EGU2007-A-05296; TS1.2-ITU2O-002
Marques, F. O.; Schnid, 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-ITU2O-003
Schmalholz, S.M.
3D Numerical Simulations of Viscous Single-layer Folding

11:30–11:45; EGU2007-A-03264; TS1.2-ITU2O-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-ITU2O-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.
Medvedev, S.; Hartz, E. H.; Podladchikov, Y. Y.
Topography of the Scoresby sound region, East Greenland: understanding the evolution by compiling observations and numerical analyses

13:45–14:00; EGU2007-A-05466; TS1.2-ITU3O-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-ITU3O-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-ITU1P-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-ITU1P-0850
Scherwath, M.; Contreras-Reyes, E.; Grevenmeyer, 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-ITU1P-0850
Contreras-Reyes, E.; Scherwath, M.; Grevenmeyer, I.; Flueh, E.R.
Seismic structure of the incoming Nazca plate offshore Southern Central Chile

XY0853; EGU2007-A-04114; TS3.2-ITU1P-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-ITU1P-0854
Micksch, U.; Krawczyk, C. M.; Ryberg, T.; Eckart, 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-ITU1P-0855
Brasse, H.; Kapinos, G.; Muechtard, L.
The enigma of geomagnetic transfer functions in the Chilean forearc
XY0856; EGU2007-A-06379; TS3.2-1TU1P-0856

XY0857; EGU2007-A-03900; TS3.2-1TU1P-0857

XY0858; EGU2007-A-06331; TS3.2-1TU1P-0858

XY0859; EGU2007-A-10305; TS3.2-1TU1P-0859

XY0860; EGU2007-A-02880; TS3.2-1TU2P-0860

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

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

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 The effect of fluids on thermal and mechanical processes in the plate interface zone.

XY0869; EGU2007-A-08235; TS3.2-1TU2P-0869

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-Conveners: Aiuppa, L.; Minelli, E.; Di Majo, E.; Caputo, R.
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

XY0872; EGU2007-A-00952; TS3.3/NH4.4-1TU1P-0872
Shahpasandzadeh, M.; Javadi, H. R.; Ghasemi, M. R.; Yasaghi, A.; Estabadi, M. Recurrence time of major earthquakes along the Dornuneh fault zone, eastern Iran, inferred from geologic and geomorphic features.

XY0873; EGU2007-A-01490; TS3.3/NH4.4-1TU1P-0873
Moreno, X.; Gracia, E.; Masana, E.; Bartolome, R.; Bozzano, G.; Rubio, E.; Lo Iacono, C.; ReichBerger, K.; DaniBotella, J.J.; Santanach, P.; IMPULS cruise party Active tectonics along the offshore Carboneras Fault (SE Iberian Margin): High-resolution seismologic 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.; Bnzzi, 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

XY0877; EGU2007-A-04450; TS3.3/NH4.4-1TU1P-0877
Carlino, S.; Cubellis, E.; Marturano, A. Macroseismic analysis of historical seismicity in the Ischia–Lacco Ameno area (Southern Italy) and influence of geological conditions on the effects of earthquakes.
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 Foreae, Indonesia

XY0895; EGU2007-A-03696; TS7.1-1TU3P-0895
Glorie, S.; De Grave, J.; Buslov, M.; Van den haute, P.; Bataliev, L.

Mesozoic evolution of the Northern Tien Shan batholith (Kyrgyzstan): a reconnaissance apatite fission-track study of the Moldo Range and the Suusamyr valley

XY0896; EGU2007-A-03736; TS7.1-1TU3P-0896
Dewancke, J.; De Grave, J.; Buslov, M.; Delvaux, D.; Van den haute, P.

Apatite fission-track thermochronology of the Tunka Range, the eastern Sayan Mountains and the southern Baikal rift area: preliminary results

XY0897; EGU2007-A-07711; TS7.1-1TU3P-0897
jiaohua, ZH; zhikun, W; juan, ZH; yuntian, L; kongyou, W; yong, L

Character and dynamic system evolution of metamorphic complexes at paleocontinental margin in Jilin during the transition from late Archaean to early Proterozoic

XY0898; EGU2007-A-10557; TS7.1-1TU3P-0898
Delvaux, D.; De Grave, Y.; Poort, J.; Buslov, M.; Abdulkhatamov, 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.

North-Alpine front in Alps vs. the northeastern Tibet-Basin-mountain coupling in transpressive settings: the North-Alpine front in Alps vs. the northeastern Tibet-Qaidam-Tarim system

XY0900; EGU2007-A-11655; TS7.1-1TU4P-0904
Genser, J.

Subsidence analysis and its consequences for formation mechanisms of the Qaidam basin

XY0901; EGU2007-A-02491; TS7.2-1TU3P-0912
Yin, C.Q.; Zhao, G.C.; Sun, M.; Leung, W.H.

Metamorphic P-T path of the Qaidam basin and Intracarpathian basin junction (Slovenia)

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 Altynt Strike-slip Fault and the uplifting of the Altynt Mountains, western China

XY0904; EGU2007-A-11565; TS7.1-1TU4P-0904
Genger, J.

Subsidence analysis and its consequences for formation mechanisms of the Qaidam basin

XY0905; EGU2007-A-08558; TS7.1-1TU4P-0905
Groger, H.R.; Tischler, M.; Fugemschuh, 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 Intracarpathian basin junction (Slovenia)

XY0907; EGU2007-A-07387; TS7.1-1TU4P-0907
Kargarbandafghi, 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.

Suba-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-Conveners: 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

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 Hsuehshan Range along the Tachiahsi 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 Zhuoishan 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, westernmost 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: N.N.

XY0900; EGU2007-A-03713; TS7.1-1TU3P-0900

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-00079; 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 Khasamandu 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 Altynt Strike-slip Fault and the uplifting of the Altynt Mountains, western China
XY0915; EGU2007-A-05102; TS7.2-1TU4P-0915
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 Orдовидов Macquarie Arc and its accretion to Gondwana

XY0917; EGU2007-A-05516; TS7.2-1TU4P-0917
Belova, A. A.; Dubinina, S. V.; Kuznetsov, N. B.; Ryazantsev, 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.; Sadovsky, L. A.
Arc-continent collision in the Urals: peculiarities in development along the orogen strike

XY0920; EGU2007-A-03168; TS7.2-1TU4P-0920
Kukkonen, J. T.; Lauri, L. S.
Modelling the thermal evolution of a collisional Precambrian orogen: High heat production migmatisic granites of southern Finland

TS7.3 Material transfer at convergent margins – Posters

Convener: Kukowski, N.
Co-Conveners: Willett, S.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 13:30–15:00
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XY0921; EGU2007-A-05788; TS7.3-1TU3P-0921
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.; Vannucci, 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
Kovač, M.; Fulop, A.; Pecskay, Z.
Spatial and temporal evolution of metallogeny in connection with convergent margins magmatism in Oas-Gutai and Tâbes Mts., Eastern Carpathians, Romania

TS7.5 The tectonics and dynamics of subduction: from shallow to deep processes – Posters
Convener: Phipps Morgan, J.
Co-Conveners: 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
Sigmanson, 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.; Balanyuk, L.; Chakravarty, O. N.
Hydrocarbon fluids in subduction zones

XY0927; EGU2007-A-02103; TS7.5-1TU3P-0927
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
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 Indonesia

XY0930; EGU2007-A-06762; TS7.5-1TU3P-0930
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
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
Tomography of OBS data and prestack-depth migration of MCS data from the Sumatra continental margin

XY0933; EGU2007-A-07010; TS7.5-1TU3P-0933
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

Deformation in a subduction channel (1): anatomy of the shallow portion (T< 150°C) of an ancient analogue in the Northern Apennines of Italy

Remitti, F.; Bettelli, G.; Vannucchi, P.

Deforestation in a subduction channel (2): Anatomy of the deeper Portion (T 150°C to 350°C) of an ancient Analogue in the Swiss Alps

TS8.4/GD06.1/GMPV16-1TU3O-006
Granot, R.; Godard, M.; Ildefonse, B.
Origin of olivine-rich gabbroic rocks from the Atlantis Massif (MAR 30°N, IODP Hole U1309D) : petrostructural and geochemical study

XY0940; EGU2007-A-05248; TS7.5-1TU3P-0940
Gorcezyk, 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 thickening 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
Hirai, 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

XY0938; EGU2007-A-03317; TS7.5-1TU3P-0938
Bachmann, R.; Glodny, J.; Oncken, O.
Deforestation in a subduction channel (1): anatomy of the shallow portion (T< 150°C) of an ancient analogue in the Northern Apennines of Italy

XY0939; EGU2007-A-07614; TS7.5-1TU3P-0939
Raimbault, H.; Jolivet, L.
Eclogitization processes and consequences for high-pressure rocks exhumation

XY0940; EGU2007-A-05248; TS7.5-1TU3P-0940
Gorcezyk, 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 thickening 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
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Stress Trajectories in descending lithospheric Slabs and the consequent Water Cycle

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Hirai, 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

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TS Poster Area
Chairperson: N.N.
14:15–14:30; EGU2007-A-07710; TS8.5/GD06.2/GMPV17-1TU30-004
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/GMPV17-1TU30-005
The 71N vent fields at the Arctic Mid-Ocean Ridge (solicited)

14:45–15:00; EGU2007-A-10097; TS8.5/GD06.2/GMPV17-1TU30-006
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/GMPV17-1TU40-001
Seewald, J.; Reeves, E.; Saccocia, P.; Rouxel, O.; Walsh, E.; Craddock, P.; Tivey, M. A.; Craddock, P.; 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/GMPV17-1TU40-002
Konn, C.; Charlou, J.L.; Donval, J.P.; Holm, N.G.; Bouil-lon, S.; Dehaers, 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/GMPV17-1TU40-003
Chavagnac, V.; Monnin, C.
Where can we find anhydrite in the marine environment?

16:15–16:30; EGU2007-A-04009; TS8.5/GD06.2/GMPV17-1TU40-004
Fontaine, F.; Cannat, M.; Escartín, 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/GMPV17-1TU40-005
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 &lt;37.3°N Mid-Atlantic Ridge)

16:45–17:00; EGU2007-A-09864; TS8.5/GD06.2/GMPV17-1TU40-006
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

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: BŁÓSCHL, 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 Neél 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 Neél Medal Lecture) (solicited)

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MEETING PROGRAMME

WEDNESDAY

Union Symposia

US1 Union Award Presentations and Medal Lectures
Convener: Ludden, J.
Lecture Room: Chairperson: LUDDEN, J.
17:30–17:35 Global congratulations to medallists
17:35–17:45 Congratulations to Young Scientists’ Outstanding Poster Paper Awardees
17:45–17:55 Congratulations to the Outstanding Young Scientist Awardees
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; US1-1WE50-006
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., Funiciello, 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; AS1.01-1WE10-001
Kolstad, E. W.; Kristjansson, J. E.; Barstad, I.; Sorteberg, A.; Setra, Ø.
Polar lows and Arctic fronts: mesoscale weather systems at high latitudes (solicited)
8:45–9:00; EGU2007-A-04033; AS1.01-1WE10-002
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; AS1.01-1WE10-003
Schultz, D. M.; Zhang, F.
Baroclinic development within zonally varying flows
9:15–9:30; EGU2007-A-04296; AS1.01-1WE10-004
Wernli, H.
Dynamical analysis of 5-day ECMWF forecast busts over Central Europe
9:30–9:45; EGU2007-A-00335; AS1.01-1WE10-005
Yano, J. I.
Large-scale tropical atmospheric dynamics: waves or balance?
9:45–10:00; EGU2007-A-04736; AS1.01-1WE10-006
Pan, L.
Observational study of the extratropical tropopause
10:00 END OF SESSION

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; Grisolía-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; Grisolía-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
Meeting Programme

XY0007: EGU2007-A-09982; AS1.01-1WE2P-0007
Ölafsson, H.; Ágústsson, H.
The Freysnes down slope 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.; Boetcker, 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.; Grushkevskiy, 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.; Martinus, 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, M.
Stratopause-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.; Tijm, 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.; Kücherenko, 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 LOFZ 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.; Merlijn, M.
Verification of different precipitation forecasts during extended winter-season in Estonia

XY0027: EGU2007-A-02446; AS1.03-1WE3P-0027
Alaghamd, S.; Mohammadi, A.; Mosaed, 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
Bihar, Z.; Szentimrey, T.; Lakatos, M.; Szalai, S.
Verification of radar precipitation measurements with interpolated surface data

XY0031: EGU2007-A-04349; AS1.03-1WE3P-0031
Lorenze, P.; Hernández, E.; Queralt, C.
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 Raindrop Size Distribution

XY0033: EGU2007-A-04767; AS1.03-1WE3P-0033
Michaelides, S.C.; Savvidou, K.; Nicolaides, 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) – Posters

Convener: Michaelides, S.
Co-Conveners: 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
Hatzi k, 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
Pashaardis, 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

XY0044; EGU2007-A-07101; AS1.03-1WE4P-0044
Anagnostopoulou, Chr.; Tolika, K.; Maheras, P.; Reiser, 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.; Ölfsson, 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
Lombard, 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
Aronas, T.; Ölfsson, H.; Rögnvaldsson, Ó.
Evaluation of dynamic downscaling of precipitation in the complex terrain of Iceland

XY0060; EGU2007-A-09601; 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
Tofte, I.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
Friedrichs, P.; Henne, 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
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.; Mezin, 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, PT; Vaughan, G.; Allen, G.
Influence of aerosols on deep convection

12:15 LUNCH BREAK
Chairperson: VAUGHAN, G.

Kunze, M.; ESM-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.; Ulanowski, 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-00440; AS1.09-1WE3O-003
Chaboureau, 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 NOx in Observed Tropical Thunderstorms

14:45–15:00; EGU2007-A-08714; AS1.09-1WE3O-006
Hrechanyy, S.; von Hobe, M.; Grooss, 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.; Bönisch, 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
Several global cloud resolving simulations by NICAM on tropic and mid-latitudes derived from balloon-born observations

14:30–14:45; 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; EGU2007-A-09525; AS1.10-1WE3O-004
Viciani, S.; Mazzinghi, P.; Ulanowski, A.; Ravegnani, F.
Large scale cloud-resolved simulations of Lightning NOx with results from a global chemistry-climate model along flight tracks

15:15 END OF SESSION
AS1.10 Dynamics and chemistry of atmospheric moist convection – Posters

Convener: Yano, J.
Co-Conveners: 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.; Bourrianne, 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, J.Y.; 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
Kuelling, 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, I.; 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, I.; 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
TETTELBAUM, H.; Le Treut, H.; Moustaou, 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 CAWSES program (co-organized by ST)
Convener: Lübken, F.
Lecture Room 12 (E2)
Chairperson: LÜBKEN, F.-J.

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
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.; Stillier, G.; Reddmann, T.; Ruhnke, R.
Stratospheric hydrogen peroxide (H$_2$O$_2$) 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-Conveners: 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
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.; Choularton, 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.; Levizzani, 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-Conveners: 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 pyro-convective 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 predictibility of the response of mixed-phase convective clouds to aerosol perturbations

XY0091; EGU2007-A-08204; AS1.15-1WE2P-0091
Deandreis, C.; Balkanski, Y.; Dufréne, 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-Conveners: Hasager, C.
Lecture Room 29
Chairperson: N.N.

8:30–8:45; EGU2007-A-05800; AS2.01-1WE1O-001
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
Steinfeldl, 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.; Steinfeldl, G.; Kijun, 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.; Bruggemann, 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.; Schlittinemeyer, 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
Rehmann, C.; Kolle, O.; Kutsch, W.; Zerl, 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.; Culoit, 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
Grafelt, R.; Warrach, K.; Amet, 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.; Schroeder-Homscheidt, M.
Ambient air temperature parameterization from remote sensing data

14:30–14:45; EGU2007-A-04520; AS2.01-1WE3O-005
Andrieux, C.; Guilevic, 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
XY0105; EGU2007-A-08737; AS2.01-1WE4P-0105
Tatarínov, 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.; Lazgá, I.; Vincecz, 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
Potuzníková, K.; Sédlák, P.; Šaulí, P.
Wavelet-based study of coherence in turbulent flow within the spruce forest at mountainous site Bílý Kout

XY0110; EGU2007-A-03179; AS2.01-1WE4P-0110
Ohkubo, S.; Kosugi, Y.; Takanashi, S.; Mitani, T.; Tani, M.
Evaluating ecosystem respiration in a Japanese temperate cypress forest

XY0111; EGU2007-A-03460; AS2.01-1WE4P-0111
Mohrán, G.; Timár, G.; Ferencz, Cs.; Lichtenberger, J.
Land Surface Temperature (LST) estimation algorithm for MODIS data

XY0112; EGU2007-A-04123; AS2.01-1WE4P-0112
Rakibú, M. G.; Ibrón, 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.V.; Ibrón, A.; Ross, T.; Rakibú, M.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.; Tatarínov, 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
Sozzari, 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.; Brugemann, N.; Serca, D.
Neural network treatment of 3 years long NO measurement in temperate and tropical climates

XY0117; EGU2007-A-02260; AS2.01-1WE4P-0117
Dudoit 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 aerochemistry 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, F.; 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-Conveners(s): Coc, 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.; Buajarern, 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
Hygroscopic Growth and Water Uptake Kinetics of Two-Phase Aerosol Particles consisting of Ammonium Sulfate, Adipic and Humic Acid Mixtures
AS3.02 Aerosol Chemistry and Microphysics (General Session) – Posters

Convener: Kiendler-Scharr, A.
Co-Conveners: Coe, H.; Mentel, T.
Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 10:30–12:00
Poster Area Halls X/Y
Chairpersons: COE, H., KIENDLER-SCHARR, A., MENTEL, T.

XY0128; EGU2007-A-03959; AS3.02-1WE2P-0128
Facchinetti, M. C.; Emblico, L.; Cavalli, F.; Decesari, S.; Mircea, M.; Rinaldi, M.; Fuzzi, S.; Laakso, A.
Aerosol chemical composition during new particle formation events in the Po Valley (Italy)

XY0129; EGU2007-A-03664; AS3.02-1WE2P-0129
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
Oxidation of 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 Island, a remote site of the Austral Ocean.
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
Gershenzon, Yu.M.; Stepanov, A.V.; Zasypkin, 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.; JPC06
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
Poullain, 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
Analysis of the unresolved organic fraction in aerosols with ultrahigh resolution mass spectrometry

XY0157; EGU2007-A-10471; AS3.02-1WE3P-0157
Graus, M.; Domen, J.; Metzger, A.; Müller, M.; Wittshaler, 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
Uherek, 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.; Romakkanieri, S.; Gallagher, M.W.; Coe, H.; Crosier, J.; Allan, J; Lewis, A.; Reeves, C.
Interactions of urban aerosol plumes with stratoscumulus cloud

11:30–11:45; EGU2007-A-06805; AS3.03-1WE2O-005
Romakkanieri, 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.; Sellegr, K.; Chaunerliac, 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
Kanawati, B.; Herrmann, F.; Sadezky, A.; Winterhalter, R.; Moortgat, G.K.
Kinetic mechanism of solid alkanes oxidation in the troposphere. EPR study. (cancelled)

XY0163; EGU2007-A-05293; AS3.03-1WE3P-0163
Veres, A.V.; Zasypkin, A.Yu.; Ivanov, A.V.; Molina, M.J.
Kinetic mechanism of solid alkanes oxidation in the troposphere. EPR study.

XY0164; EGU2007-A-05545; AS3.03-1WE2O-004
Bower, K. N.; Choularton, T.W.; Romakkanieri, S.; Gallagher, M.W.; Coe, H.; Crosier, J.; Allan, J; Lewis, A.; Reeves, C.
Interactions of urban aerosol plumes with stratoscumulus cloud

XY0165; 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

XY0166; EGU2007-A-03991; AS3.03-1WE3P-0160
Tilgner, A.; Wolke, R.; Herrmann, H.
SPACCIM model studies on the multiphase processing of tropospheric aerosols

XY0167; 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

XY0168; 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

XY0169; 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
AS3.06 Air Pollution Modelling

Convener: Brandt, J.
Co-Conveners: Frohn, L., Geels, C.

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-Conveners: 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
Komjathy, 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.; Mahren, 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-Stanner, 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.;uzzi, 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
Popenescu, 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
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.; Forssberg, 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
Demael, 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.; Vitoria, L.; 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.; Khoshshima, M.; Sabetghadam, S.
Direct observations of daytime atmospheric boundary layer

XY0193; EGU2007-A-11683; AS3.06-1WE3P-0193
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
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.; Alfarrà, 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
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
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.; Calzolai, G.; Chiarì, 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
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 Asco- and Basidiomycota

XY0207: EGU2007-A-05381; AS3.09-1WE3P-0207
Dogan, G.; Karakaj, 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-Conveners: Capilla, C., Gaffney, J., Kokhanovsky, A., Marley, N.
Lecture Room 1 (G)
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
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, T; 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
Comparison of positive matrix factorization and factor analysis for the source apportionment of particulate pollutants at the Black Sea coast of Turkey
16:15–16:30; EGU2007-A-01823; AS3.12-1WE4O-003
Marley, N.
Overview of the MACMA-2006: Ground-based measurements during MILAGRO Campaign in the Mexico City Metropolitan Area
16:30–16:45; EGU2007-A-09893; AS3.12-1WE4O-004
Sosa, G.; Vega, E.; Gonzalez, E.; Zambrano, A.; Arraiga, 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
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
MAX-DOAS Measurements of HONO during MCMA-2006

17:45–18:00; EGU2007-A-00892; AS3.12-1WE5O-002
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-Conveners: 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.; Henriet, JP.; 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-Conveners: 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
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-Conveners: 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

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15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-00560; BG1.05-1WE4O-002
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.; Wiesenbg, 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-Garcia, 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.; Beck, 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.
BG1.07 Electron transfer processes in soils, sediments, and aquifers: concepts and cases (co-listed in SSS)

Convener: Blodau, C.
Co-Conveners(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, Oldham, Salmon, Kusel.
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, Meckenstock, R.U.; 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, 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, Behrends, Van Cappellen.
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, Hofstetter, Schwarzenbach.
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, Lloyd, 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-Conveners(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
Wilhardt, Mach, R.L.; Rybinska, 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, Bruno, Carolli, Silveri.
Effects of hydropereaking on the hyporheos of an Alpine stream: preliminary results
BG0024; EGU2007-A-02167; BG1.07-1WE2P-0024
Bosch, Fritzschke, Meckenstock, R.U.
Nanosized Iron(hydroxy)oxide Particles are readily reduced by iron-reducing Microorganisms

BG0025; EGU2007-A-01988; BG1.07-1WE2P-0025
Knorr, 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, 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, Knorr, 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, Bauer, Peiffer, Blodau, C.
DOM induced iron and sulphate reduction promotes arsenic mobility in column experiments
BG0030; EGU2007-A-07048; BG1.07-1WE2P-0030
IMFELD, Nijenhuis, Nikolausz, Weber, Zeiger, Richtow, 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, Hönher, 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, Weymann, Flessa, von der Heide, Konrad, Walther, C.
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, Ansari, Renshaw, Pearce, May, Livens, F.R.; Lloyd, J.R.
Biotransformation of heavy metals, precious metal, and radionuclides
BG0034; EGU2007-A-08234; BG1.07-1WE2P-0034
Zhang, Slomp, Passier, van Cappellen, P.
Denitrification coupled to pyrite oxidation and implications for groundwater quality: a case study (Oostrum, the Netherlands)
BG0035; EGU2007-A-08610; BG1.07-1WE2P-0035
Kaasalainen, Leivuori, Kaasalainen, Leivuori, M.
Pore water dynamics of iron and manganese in the northern Baltic Sea surface sediments

BG5.03 Application of stable isotopes in biogeoosciences (co-listed in IG)

Convener: Böttcher, M.
Co-Conveners(s): Bouillon, S., Buchmann, N.
Lecture Room 19
Chairperson: BOUILLON, S.
Meeting Programme

**BG0048:** EGU2007-A-01382; BG5.03-1WE3P-0048
Böttcher, M.E.; Wortmann, U.G.; Bernasconi, S.
Isotope biogeochemistry of sedimentary sulfur in hypersulfur 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.; Daehne, 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.; Hätti, C.
Suitability and reliability of isotopic biogeochemistry studies in paleoeclimatology: 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 isotope 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.
Quantity 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.; Fienemen, M.; Glatzel, S.; Gleiexner, G
Composition of soil microbial carbon sources in a temperate beech forest

**BG0058:** EGU2007-A-07963; BG5.03-1WE3P-0058
Inwegersen, J.; Poll, C.; Streck, T.; Kandelere, E.
Dynamics of Litter Carbon Turnover in a Detritusphere - Model-based Evaluation of a 13C Microcosp 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.; Schaeflefe, 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, FS; 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: BÜMA, 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
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
Müller, 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/CL49-1WE4O-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/CL49-1WE4O-002
Shulis, 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/CL49-1WE4O-003
Kraev, G.; Rivkina, E.; Gilichinsky, D.
Is the Permafrost Pool of Greenhouse Gases disastrous?

16:45–17:00; EGU2007-A-11007; BG5.09/CL49-1WE4O-004
Lasley, K R
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/CL49-1WE5O-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/CL49-1WE5O-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/CL49-1WE5O-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/CL49-1WE5O-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/CL49-1WE5O-005
Beer, J.
Long-term Solar Variability Derived from Cosmogenic Radionuclides

18:45–19:00; EGU2007-A-07477; BG5.09/CL49-1WE5O-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-Conveners: 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. B.; 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.; Morotam, 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.; Tromble, 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
Investigation of prokaryotic metabolism in the deep ocean using natural abundance radiocarbon

BG0071; EGU2007-A-05880; BG5.09/CL49-1WE2P-0071
Uchida, M.; Eglington, T.I.; Hayes, J.M.; Coppola, L.; Gustafsson, O.??; Anderson, P.; Montlucan, 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.; McCabe, I. N.; Eglington, 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.; Necht, 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
Dendrochronology, 14C time-scale and mechanisms of rapid climate change during the last deglaciation
BG0076; EGU2007-A-01372; BG5.09/CL49-1WE2P-0076
Namitloko, T.; Pichler, M.; Danielpol, 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.; DeCLakes Participants
Late glacial 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 µXRF 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 Échets, 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, d15N and other biogeochemical proxies in surface sediments and cores from the eastern Mediterranean Sea

BG0083; EGU2007-A-03556; BG5.09/CL49-1WE2P-0083
Aulierbliaty, L.; Prins, M.A.; Ziveri, P.
Late Holocene aeolian dust and coccolith stable isotope records from the Mediterranean Sea: does aerosol fertilization affect biological productivity?

BG0084; EGU2007-A-05968; BG5.09/CL49-1WE2P-0084
Quaternary Marine Ecosystem Response to Fertilization (MERF) collaborative research project: overview and progress

BG0085; EGU2007-A-07805; BG5.09/CL49-1WE2P-0085
Triantaphyllou, M.; Antonarakou, A.; Kontakiotis, G.; Dimiza, M.; Ziveri, P.; Mortyn, G.; Lianou, V.; Lykousis, V.; DeMertzakis, M.D.
Calcareous nannofossil and planktonic foraminiferal assemblages 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 southwestern margin of Crete (Eastern Mediterranean)

BG0087; EGU2007-A-05574; BG5.09/CL49-1WE2P-0087
Kurbatova, J.; Varlagin, A.; Tatarinov, F.; Vygodskaya, N.; Olchev, A.
Climate variability and CO2 exchange in southern European taiga

BG0088; EGU2007-A-08243; BG5.09/CL49-1WE2P-0088
Kern, Z.; Molnár, M.; Főrös, I.; Perőtou, A.; Nagy, B.
Geochemical and stratigraphic analysis of ice from Borjig 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 weakening 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.; Planken, S.; Chevallier, L.; Matthesørensen, 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
Trace element records in Mytilus edulis shells – a proxy for environmental conditions?

BG0098; EGU2007-A-07218; BG5.09/CL49-1WE2P-0098
Hibenthal, C.; Wahl, M.; Eisenhauer, A.
Ca Isotope Fractionation (&#948;44/40Ca) in Shells of Bivalve Mytilus edulis as a Proxy for Temperature and Salinity

BG0099; EGU2007-A-08445; BG5.09/CL49-1WE2P-0099
Hibenthal, C.; Wahl, M.; Eisenhauer, A.
Ca Isotope Fractionation (&#948;44/40Ca) in Shells of 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
Chairperson: BERDALET, E.
Lecture Room 20 (N)
Convener: Berdalet, E.
Co-Convener(s): Battin, T., Clercx, H., Piera, J., Richards, K., Seuront, L.
10:30–10:45;
EGU2007-A-07658; BG6.06/NP6.09-1WE2O-001
Chairperson: BERDALET, E.
Lecture Room 20 (N)
Convener: Berdalet, E.
Co-Convener(s): Battin, T., Clercx, H., Piera, J., Richards, K., Seuront, L.
10:30–10:45;
EGU2007-A-07658; BG6.06/NP6.09-1WE2O-001
Chairperson: BERDALET, E.
Lecture Room 20 (N)
Convener: Berdalet, E.
Co-Convener(s): Battin, T., Clercx, H., Piera, J., Richards, K., Seuront, L.
10:30–10:45;
EGU2007-A-07658; BG6.06/NP6.09-1WE2O-001
Chairperson: BERDALET, E.
Lecture Room 20 (N)
Convener: Berdalet, E.
Co-Convener(s): Battin, T., Clercx, H., Piera, J., Richards, K., Seuront, L.
10:30–10:45;
EGU2007-A-07658; BG6.06/NP6.09-1WE2O-001
Chairperson: BERDALET, E.
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-109972; BG6.06/NP6.09-1WE2O-004
Roudesti, 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
Onta, 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
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

11:00–11:15; 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
Meeting Programme

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
Baldi, K.; Vetò, 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.; Martinez-Ruiz, F.; Paytan, A.; Gallego-Torres, D.
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.; Brinkhuis, H.; Schouten, S.; Sinninghe Damsté, J.
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) Kácák Event: a global ocean anoxic event

XY0229; EGU2007-A-02796; CL1-1WE5P-0229
Mattioni, 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
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
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?

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CL10 Regional and Global Climate Impact of the Atlantic Ocean Variability (co-listed in OS)

Convener: Zhang, R.
Co-Conveners(s): Delworth, T., Sutton, R.
Lecture Room 20 (N)
Chairperson: SUTTON, R

15:30–15:45; EGU2007-A-06074; CL10-1WE4O-001
Wolf, 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
Domin, B.; Sutton, R. T.
The impact of Atlantic ocean circulation on El Nino-Southern Oscillation (ENSO) variability (solicited)

16:00–16:15; EGU2007-A-02090; CL10-1WE4O-003
Dong, B.; Sutton, R. T.
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-02900; CL10-1WE4O-004
Zhang, R.; Delworth, T. L.
The impact of the Atlantic ocean variability on Indian summer monsoon rainfall

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CL10 Regional and Global Impact of the Atlantic Ocean Variability (co-listed in OS) – Posters

Convenor: Zhang, R.
Co-Conveners: Delworth, T., Sutton, R.
Display Time: Wednesday, 08:00–19:30
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
Masek, 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.; Duric, 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

Conveners: Christiansen, B.
Display Time: Wednesday, 08:00–19:30
Chairperson: N.N.
XY0235; EGU2007-A-02715; CL13/CL39-1WE1O-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.
XY0236; EGU2007-A-03364; CL13/CL39-1WE2O-002
von der Heydt, A.; Dijkstra, H. A.
Localization of multidecadal variability
XY0237; 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
XY0238; EGU2007-A-10902; CL13/CL39-1WE2O-004
Hacker, J.; Hakim, G.
Extratropical forecast errors associated with tropical heating anomalies
XY0239; EGU2007-A-08503; CL13/CL39-1WE2O-005
Marraus, D.; Kurths, J.; Holschneider, M.
Cross Wavelet and Coherence Analysis of Coupling and Teleconnections
XY0240; EGU2007-A-08504; 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
Rai bale, C., C.; Stocker, T. F.; Hofer, D.; Renold, M.; Yoshimi or, M.
On the stability of large-scale atmospheric teleconnection patterns in reconstructions and ensemble GCM simulations of the last 500 yr

Mainville, JM; Jones, CG; Dupas, BD
Evaluating the global atmospheric response to ENSO Sea Surface Temperature forcing as simulated by the Global Environmental Multi-scale Model (GEM).

Pomnier, A.; Soto, D.
Varyations of the northern Atlantic climate dynamic. Assessment at two time scales: a modern and a past one

Breiteig, T
The response in the North Atlantic Oscillation variability to a perturbed meridional overturning circulation

Schmitt, T.; Stendel, M.
Climatic Events in the North Atlantic and Arctic during the 20th Century: Internal versus External Variability

Boscolo, R.; Cattle, H.
CLivar in the Pacific Ocean

Kostopoulou, E.; van Loon, H; Giannakopoulos, C
The Role of Sensible Heat Transport by the Stationary Waves in Climate Variability in the Northern Hemisphere.

Pokorna, L.
Do the surface and mid-troposphere modes of circulation variability have the same effect on the European climate?

Rimbu, N.; Lohmann, G.; Ionita, M.
Variability and potential predictability of the Northern Hemisphere atmospheric blocking and their relation with teleconnection patterns

ORSOLINI, Y.; KAVMSTO, N.; KINDEM, I.
The Aleutian-Icelandic seaseas in ensemble GCM simulations

Romanov, Yu.A.; Byshhev, V.I.; Neiman, V.G.
On the contrary air temperature secular trends over continents and oceans in the northern hemisphere

Ballester, J.; Rodó, X.; Cash, B
Potential sources of seasonal climate predictability in the Mediterranean Basin

Paleogene climate variations on the East African margin. (solicited)

13:45–14:00; EGU2007-A-10401; CL16/GD14-1WE3O-002
Strecker, M.H.; Bergner, A.; Mortimer, E.; Trauth, M.H.
Oblique riffling, 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
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.; Alemeaged, 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-08696; 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.; DUCHNFORTH, M.; Garcin, Y.
High- and low-latitude forcing of Plio-Pleistocene East African climate and human evolution

15:15 COFFEE BREAK

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
Kaspary, 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
Larrasoañá, J.C.; Roberts, A.P.; Rohling, E.J.; Winklhofer, 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) – Posts

Convener: Trauth, M.
Co-Conveners: Christensen, B., Glasmacher, U., Koehn, D., Maslin, M., Rümpker, 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-05284; CL16/GD14-1WE5P-0268
Rümpker, G.; Barfaijoo, E.; RIFTLINK GROUP, THE
The RIFTLINK project: studies on rift-dynamics, uplift and climate change in Western Uganda

XY0269; EGU2007-A-01437; 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.; Twesigome, E.; Rümpker, G.; Kind, R.
Rift-related uplift of the Rwenzori mountains in Uganda investigated by seismological methods

XY0271; EGU2007-A-07600; CL16/GD14-1WE5P-0271
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.
Modelling 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.; Berger, A.; Garcin, Y.
Reurrence 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.; Streeker, M.R.; Deino, A.; Blasiuk, 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.; Pessen, B.; Kristen, I.; Verschuren, D.; CHALICEA 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.
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.; Ségalen, L.
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.; Goodhure, 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., Röthlisberger, R., Schneebeli, M., Montagnat, M.
Lecture Room 13 (F1)
Chairperson: N.N.

8:30–8:45; EGU2007-A-05230; CL25-1WE1O-001
Ice flow modelling at EPICA Dome C and Dome Fuji, East Antarctica

8:45–9:00; EGU2007-A-06680; CL25-1WE1O-002
Leuenberger, M.; Parrenin, F.; 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.; Braid, M.; Cattani, O.; Faloud, S.; Lacunini, 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
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
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.; Hönsch, B.; Fischer, H.
The carbon cycle during the Mid Pleistocene Transition

11:15–11:30; EGU2007-A-02761; CL25-1WE2O-004
Eastgate, T.; Sammsons, 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-Dudon, B.; Parrenin, F.; Debret, M.
A chemical pace maker for dating Antarctic deep ice cores

12:00 LUNCH BREAK

Chairperson: N.N.

Gabrielli, P.; Boutron, C. F.; Marteau, 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
Microstructure Mapping of Firn

In Situ X-Ray-micro-tomography of snow at the EPICA-drill

Change of isotopic content of snow by temperature gradient—accumulation and temperature for EPICA cores

Uncertainties on gas chronologies with different scenario of

Spahni, R.; Schilt, A.; Raisbeck, G.; Chappellaz, J.

Loulergue, L.

Barnola, J.M.; Blunier, T.; Parrenin, F.; Freitag, J.

Kipfstuhl, S.

Sokratov, S.A.

Station ice from polar ice core. First results from Dome Concordia

Snow metamorphism, firn densification and air content in

Duval, P.; Arnaud, L; Montagnat, M; Barnola, JM; Brunjail, H.

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.; Macri, P.;

Telotti, R.; Rebesc, 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 Firm

XY0288; EGU2007-A-00669; CL25-1WE5P-0288

Loulergue, 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.; Loulergue, 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

XY0295; EGU2007-A-05158; CL25-1WE5P-0295


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


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, M.-A.; 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


Hole C ice core: insights to ocean-atmosphere interaction

XY0300; EGU2007-A-09600; CL25-1WE5P-0299

Etcheber, M.; Vincent, C.; Mix, A.; Reeh, N.; Schoene, B.;

Marino, F.; Mook, W.H.; Rozanski, K.; Duplessy, J.C.;

Two distinct Intervals of CO2 – Climate Relationship

XY0291; EGU2007-A-03413; CL25-1WE5P-0291

Schilt, A.; Loulergue, 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

XY0295; EGU2007-A-05158; CL25-1WE5P-0295


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


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, M.-A.; 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


Hole C ice core: insights to ocean-atmosphere interaction

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; CL25-1WES5P-0301
Constraining the EPICA gas chronologies in stage 3 by the 10Be peak

XY0302; EGU2007-A-02203; CL25-1WES5P-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; CL25-1WES5P-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; CL25-1WES5P-0304
Gas properties of EPICA Dronning Maud Land (EDML) basal refrozen water

XY0305; EGU2007-A-03710; CL25-1WES5P-0305
He-isotope evidences in the basal layer of EPICA drill sites

XY0306; EGU2007-A-00948; CL25-1WES5P-0306
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; CL25-1WES5P-0307
Marino, F.; Maggi, V.; Delmonte, B.; Castellano, E.; Cecatto, 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; CL25-1WES5P-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; CL25-1WES5P-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; CL25-1WES5P-0310
High resolution biogenic sulphate record in the Holocene from EPICA-DML ice core

XY0311; EGU2007-A-07464; CL25-1WES5P-0311
Lambert, F.; Delmonte, B.; Petit, J.R.; Bigler, M.; Kaufmann, P.R.; 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; CL25-1WES5P-0312
Hansson, M.E.; de Angelis, M.; Fischer, H.; Steffensen, J.P.; Udisti, R.; Wolff, E.
Methanesulphonate over eight glacial cycles

XY0313; EGU2007-A-07828; CL25-1WES5P-0313
Udisti, R.; Becagli, S.; Castellano, E.; Cerri, O.; Lucarelli, F.; Mannini, A.; Marino, F.; Morganti, A.; Nava, S.; Salvetti, E.; EPICA DUST-INTERCOMPARISON 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; CL25-1WES5P-0314
Cerri, O.; Becagli, S.; Castellano, E.; Chiari, M.; Lucarelli, F.; Mannini, A.; Morganti, A.; Rugi, F.; Salvetti, 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; CL25-1WES5P-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; CL25-1WES5P-0316
Ruth, U.; EPICA Dust-Intercomparison Team, and; EPICA Dust-Intercomparison Project
A systematic comparison of different proxies and measurement techniques for mineral dust

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CL7 Antarctica and the Global Climate System (co-listed in AS, CR & OS)

Conveners: Naveira Garabato, A.
Co-Convener(s): Turner, J., Mayewski, P.
Lecture Room 13 (F1)
Chairperson: N.N.

15:30–15:45; EGU2007-A-01364; CL7-1WEO4-001
Fyfe, J.
The Human Cause and Global Consequence of Southern Ocean Warming (solicited)

15:45–16:00; EGU2007-A-01637; CL7-1WEO4-002
Wells, N.; Blaker, A.; Sinha, B.; Ivenko, V.
Quick propagation of anomalies from the Antarctic Ocean to the Equatorial region (solicited)

16:00–16:15; EGU2007-A-09275; CL7-1WEO4-003
Gillett, N. P.; Bell, T. D.; Jones, P. D.
Regional climate impacts of the Southern Annular Mode

16:15–16:30; EGU2007-A-06278; CL7-1WEO4-004
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; CL7-1WEO4-005
van Ommen, T.; Morgan, V.
Connections between coastal East Antarctic snowfall and Southern Australian climate (solicited)

16:45–17:00; EGU2007-A-03084; CL7-1WEO4-006
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-Conveners: 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
Holand, 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
Tyntofeyev, V.
Regional warming at the Antarctic Peninsula as viewed against global changes

XY0326: EGU2007-A-04246; CL7-1WE5P-0326
Winter warming of Antarctic troposphere

XY0327: EGU2007-A-03328; CL7-1WE5P-0327
Conolley, W.; Bracegirdle, T.
An assessment of IPCC AR4 coupled models over Antarctica

XY0328: EGU2007-A-01599; CL7-1WE5P-0328
Abram, N.J.; McConnich, 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.; Leverentz, 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.; Prooposito, 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, L.; Verkulich, S.R.; Melles, M.
Antarctic oases – sources of palaeoclimate information

XY0332: EGU2007-A-10369; CL7-1WE5P-0332
Stast, J.B.W.; Hebelyn, D.
Antarctic timing of climate in the South-American subtropics

CR70 Snow dynamics and snow-atmosphere exchange over Greenland and Antarctica (co-listed in AS & CL)

Convener: Heinemann, G.
Co-Conveners: Ohmura, A., Neff, W.
Lecture Room 26
Chairperson: HEINEMANN

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 ANTCI 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 Schneidemesser, 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.; Kaiser, 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-Beid, 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-Conveners: 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
CR130 Glaciology, climate, and oceanography of the Antarctic Peninsula and the sub-Antarctic (co-listed in CL & HS) – Posters

Convener: Kulessa, B.
Co-Conveners(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
Kulessa, 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-Conveners(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.

A0008; 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.
Volatil 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
Mon 9:30–9:45; EGU2007-A-03929; CR170/GM1-1WE1O-005
Piotrowski, J.A.; Kristensen, T.B.; Klintoe, L.; Huse, 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
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

10:30–10:45; EGU2007-A-04799; 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 Nuvamut, 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 (solicited)

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-Putilneva, A.
Subglacial geomorphology of the Antarctic.

A0019; EGU2007-A-10656; CR170/GM1-1WE5P-0019
Hiller, 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. (solicited)

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?
Meeting Programme

ENERGY, RESOURCES AND THE ENVIRONMENT

ERE3 Renewable resources in general
Convener: Brückner, T.
Co-Conveners: Held, H.
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.; Schroeder-Homscheidt, M.; Holzer-Popp, T.; Dech, S.
Application of Aerosol Forecasts for Solar Energy Industries

ERE4 Advances in CO2 storage in geological systems
Convener: Busch, A.
Co-Conveners: Kühn, M., Etheridge, D.
Chairperson: N.N.
8:30–8:45; EGU2007-A-08090; ERE4-1WE1O-001
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
Annunziatellis, A.; Beaubien, S.E.; Bigi, S.; Ciotoli, G.; Colletta, 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.; Luhr, 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
Audigeane, 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.
Reactie 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.; Ebigbo, 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 microbiosis?

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-08220; 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.; Grooli, 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-10856; 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

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
Sottilli, 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: Teddeucci, J.
Co-Conveners(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.; Pomplito, 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
Bazanova, 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.; Høskuldsson, Á.; Kolka, P. V.
Comparison of tephra from a crater row, pseudocraters and tephra fall-out, all tephra from a large effusive eruption, the Prengslaborgir – Lútentsborgir eruption 2300 BP in Mývatn, N-Iceland

A0041; EGU2007-A-06953; GMPV7-1WE2P-0041
Teddeucci, 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
Teddeucci, 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

GMPV9 Magmatic differentiation: current ideas and future developments (including Robert Wilhelm Bunsen Medal Lecture)

Convener: Troll, V.
Co-Conveners(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 crystalization 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
inclusions study
Silicate-fluoride liquid immiscibility: evidence from melt
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.; Brügmann, G.E.; Pushkarev, E.V.
Magma Mixing in Gabros 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
Saby, 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.; Girnis, A.V.; Ryabchikov, I.D.
Carbonic 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
Shallow-level processes at Krounti 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 east 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-Conveners(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 Drumadon Intrusive Complex, Isle of Arran, Scotland
A0046; EGU2007-A-03870; GMPV9-1WE4P-0046
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
Helmy, H.; Yoshikawa, M.; Shibata, T.; Araiz, S.; Kagami, H.
Petrology of the Genina Gharbia mafic-ultramafic intrusion, root-zone of an oceanic island arc
A0052; EGU2007-A-00267; GMPV9-1WE4P-0052
Monsef, R.; Emami, M.H.
The evolution and geochemical aspect of megaphyrrhic basic-intermediate lava in Azerbaijan Iran

391
A0053; EGU2007-A-00809; GMPV9-1WE4P-0053

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

A0056; EGU2007-A-08763; GMPV9-1WE4P-0056

Poster Area Hall A
Chairperson: N.N.

A0057; EGU2007-A-05444; GMPV9-1WE5P-0057

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

A0061; EGU2007-A-04202; GMPV9-1WE5P-0061

A0062; EGU2007-A-04409; GMPV9-1WE5P-0062

A0063; EGU2007-A-07323; GMPV9-1WE5P-0063

A0064; EGU2007-A-09998; GMPV9-1WE5P-0064

A0065; EGU2007-A-08770; GMPV9-1WE5P-0065

A0066; EGU2007-A-10155; GMPV9-1WE5P-0066
Gagnevin, D.; Weight, 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
Ferrito, 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.

Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00

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**Geodesy**

**G3 GRACE Science Applications**

Convener: Bettadpur, S.
Co-Conveners(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)

9:15–9:30; 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., Lavalleec, D.A. Signal and noise in four different GRACE solutions

9:45–10:00; EGU2007-A-01619; G3-1WE1O-006
Klokosnik, J.; Wagner, C. A.; McAdoo, D.; Kosteckey, J.; Bezdek, A.; Novak, P. Non-homogeneities in the accuracy of Earth gravity parameters from CHAMP, GRACE, and GOCE

10:00 COFFEE BREAK
Modeling and Validation of GRACE Regional 4-D Hydrological Mass Variations

11:00–11:15; EGU2007-A-03104; G3-1WE2O-003

Logical Mass Variations
Modeling and Validation of GRACE Regional 4-D Hydrology Recovery

11:15–11:30; EGU2007-A-09280; G3-1WE2O-004

Mascons and GRACE Hydrology Recovery

11:30–11:45; EGU2007-A-11014; G3-1WE3O-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. F.; Tamisiea, M. E.; Nerem, R. S.
Measuring Variations in Mean Ocean Mass with GRACE

12:00 LUNCH BREAK

Chairperson: FLECHTNER, F.

13:30–14:00; EGU2007-A-04481; G3-1WE3O-001

Biancale, R.; Garcia, D.; Ramilien, J.M.; Flechtner, F.; Schmidt, R.; Shihi, 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.; Dyurgerov, 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 icesheets

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.; Kostelecky, J.; Gruber, C.
CHAMP and GRACE Resonance Analysis

XY0339; EGU2007-A-02405; G3-1WE5P-0339
Gruber, C.; Bezdéka, A.
Gravity field recovery from simulated data with an alternative processing approach

XY0340; EGU2007-A-09945; G3-1WE5P-0340
Ardalan, A. A.; Hasemi, H.
Spectroscopy analysis of the single satellite GRACE-1

XY0341; EGU2007-A-03633; G3-1WE5P-0341
Fleming, K.; Sasgen, I.; Martinec, Z.
Comparison of filtering/de-stripmg methods for GRACE gravity-field solutions

XY0342; EGU2007-A-04941; G3-1WE5P-0342
Pavlis, E. C.; Ciufolini, I.; Koening, R.
GRACE-enabled Space Geodetic Experiments for Fundamental Physics

XY0343; EGU2007-A-04148; G3-1WE5P-0343
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.
Comparison of geopotential models - A case study in Iran

XY0345; EGU2007-A-01660; G3-1WE5P-0345
ICGEM - The International Centre for Global Earth Models
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.
Spectral analysis of the single satellite GRACE-1

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
Meeting Programme

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, J.; 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 satellite gravity

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

G9 Current state of ocean tide modelling – Posters

Convener: Schrama, E.
Co-Conveners: 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

Geodynamics

GD01 Geodynamics and Geochemistry of the Early Earth (co-listed in TS & GMPV)

Convener: van Hunen, J.
Co-Conveners: Samuel, H., Parman, S.
Lecture Room 23
Chairperson: N.N.

15:30–15:45; EGU2007-A-01521; GD01-1WE4O-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; G9-1WE5P-0357
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)

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
16:15–16:30; EGU2007-A-03920; GD01-1WE4O-004
Stroncik, N.A.; Niedermann, S.; Hauser, 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.; Mojsis, 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

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 Archaean 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) – Posters

Conveners: Tommasi, A.
Co-Conveners: Garrido, C.
Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 13:30–15:00
Poster Area Hall A
Chairperson: TOMMASI, A.

A00069; EGU2007-A-01160; GD04-1WE3P-0069
Tommasi, A.; Vauchez, A.; Godard, M.; Bellay, F.
Deformation and melt transport in a highly depleted peridotite massif from the Canadian Cordillera: Implications to seismic anisotropy above subduction zones

A00070; EGU2007-A-01163; GD04-1WE3P-0070
Thoraval, C.; Doin, M.P.; Tommasi, A.
3D models of plume-lithosphere interactions

A00071; EGU2007-A-01177; GD04-1WE3P-0071
Garrido, C.J.; Bodonier, J. L.; Chanele, I.; Bruguiere, O.
Mantle Refertilization during Lithosphere-Asthenosphere Interaction: Evidence from the Layered pyroxenite-peridotite in the Ronda massif

A00072; EGU2007-A-06740; GD04-1WE3P-0072
Morel, M.; Pearson, D.G.; Luginet, 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

A00073; 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)

A00074; EGU2007-A-08427; GD04-1WE3P-0074
Prelicic, D.; Foley, S.F.; Stracke, A.; Romer, R. L.; Conticelli, S.; Guarneri, L.
Tertiary Mediterranean lamproites: towards a comprehensive model
Meeting Programme

**Display Time:** Wednesday, 08:00–19:30

**Authors in Attendance:** Wednesday, 15:30–17:00

**Poster Area Hall A**

**Chairperson:** TOMMASI, A.

**A0075:** EGU2007-A-05765; GD04-1WE3P-0075

Mocanu, V.I.

Lithosphere - astenosphere system beneath The Carpathian Bending Zone by seismic attenuation and satellite geodesy

**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.; Abdullah, A.; Kennett, B.L.N.

Western Australia seismic wave speeds tomography

**A0080:** EGU2007-A-08839; GD04-1WE4P-0080

Milke, R.; Abart, R.; Rhodes, 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

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**GD07 Dynamics and Thermal Structure of Subduction Zones**

Convener: Fernandez, M.

Co-Conveners: Govers, R.

Lecture Room 23

Chairperson: N.N.

**13:30–13:45:** EGU2007-A-01752; GD07-1WE3O-001

Deville, 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.; Facenna, C.; Funiciello, 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)

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**GD18/G2 Ice-Mass Fluctuations and the Dynamical Responses of the Solid Earth (co-organized by G)**

Convener: Vermeersen, B.

Co-Conveners: Kaufmann, G.

Lecture Room 23

Chairperson: N.N.

**11:15–11:30:** EGU2007-A-10377; GD18/G2-1WE2O-004

Bradley, S.L.; Tefele, 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

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**Geomorphology**

**GM2 Aeolian Processes and Landforms (co-listed in CL)**

Convener: Baas, A.

Co-Conveners: 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 saturated 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.; Czyzowski, 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.; Poulguen, 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
Narteanu, 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 investigation of control parameters

XY0376; EGU2007-A-11474; GM2-1WE5P-0376
Dynamic Scaling of Desert Dunes

10:00 END OF SESSION

GM3 Seafloor Expression of Tectonic & Geomorphic Processes (co-listed in 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 offshore 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, P.; Minisini, D.; Trincardi, F.; Verdicchio, G.
Morphology of the SW Adriatic margin: tectonic deformation, slope-failure blurring and bottom-current brushing

9:30–9:45; EGU2007-A-09524; GM3-1WE1O-005
Evans, R.; Monteys, X.; Evans, R.; Kelleher, B.
Controls on the temporal variability of global dust emissions: the role of surface gustiness

9:45–10:00; EGU2007-A-10868; GM3-1WE1O-006
Engelstaedter, S.; Washington, R.
The influence of sediment drift accumulation upon the passage of gravity driven flows within the Iceland Basin

10:00 END OF SESSION
GM3 Seafloor Expression of Tectonic & Geomorphic Processes (co-listed n 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
Kraestel, 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.; Rebsco, 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.; Chai-kina, O.N.
Influence of Aleutian fracture Zone on the Ocean Floor

**XY0389:** EGU2007-A-01368; GM3-1WE5P-0389
Körtvélyessy, L.K.
Origin of ocean

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.; Fernand, H.J.S.; Balasubramanian, S.
Migration of sand ripples under shoaling waves

**XY0392:** EGU2007-A-09191; GM4-1WE5P-0392
Raynal, O.; Gravelleau, 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-0391
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-0390
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
Tokar, 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-Conveners(s): Cammeraat, E., Castillo, V.
Lecture Room 7
Chairperson: CAMMERAA'T, 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.; Sandercoc, 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.; O'kin, 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.; Sandercoc, 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
Sandercoc, 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-Conveners(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
Sandercoc, 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
Barberá, G.G.; Castillo, V.; Boix-Fayos, C.; de Vente, J.
May landscape structure and connectivity changes to commit water supply in Mediterranean countries?
XY0407; EGU2007-A-05056; GM18-1WE5P-0407
Molina, A.; Govers, G.; Vanacker, V.; Poess, J.; Zeelamkers, 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)
Convenor: Balme, M.
Co-Conveners: Gupta, S., van Gasselt, S.
Lecture Room 17 (M)
Chairperson: GUPTA, S AND VAN-GASSELT, S

Mangold, N.; Ansau, 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.; Lune, 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
Convenor: Balme, M.
Co-Conveners: 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-GASSELT, S

XY0410; EGU2007-A-07201; GM26-1WE5P-0410
Interior Layered Deposits of the eastern Valles Marineris on Mars

XY0411; EGU2007-A-07222; GM26-1WE5P-0411
Dark dunes in Martian craters

XY0412; EGU2007-A-11504; GM26-1WE5P-0412
Balme, M.; Bernmann, 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
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.; Ansau, 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
Dunke, 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.; Tovel, V.R.
Flank terrace morphology of Martian shield volcanoes

XY0422; EGU2007-A-05416; GM26-1WE5P-0422
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-Conveners: 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; GI2-1WES5P-0424**  
Szakáll, M.; Bozóki, Z.; Mohácsi, Á.; Szabó, G.; Zahn, A.  
UT/LS Water Vapor Measurements Using a Photoacoustic Detector

**XY0425; EGU2007-A-02406; GI2-1WES5P-0425**  
Drue, C.; Frey, W.; Hauf, T.; Hof, A.  
Analysis of aircraft-type specific errors in AMDAR weather reports from commercial aircraft

**XY0426; EGU2007-A-10983; GI2-1WES5P-0426**  
Sauvage, L.; Stachlewiska, I.; Lardier, M.; Chazette, P.; Sanak, J.  
New eye safe compact EZ LIDAR for pollution and meteorological monitoring.

**XY0427; EGU2007-A-00815; GI2-1WES5P-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; GI2-1WES5P-0428**  
Thejli, P.; Gleisner, H.; Andersen, T.; Petersen, M-O; Ardeberg, A.; Mattingly, A.; Pedersen, L.  
Earthshine observations - terrestrial Albedo

**XY0429; EGU2007-A-09635; GI2-1WES5P-0429**  
Pinardi, G.; Van Roozendael, 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; GI2-1WES5P-0430**  
Schween, J.H.  
A method to overcome the problem of 

**XY0431; EGU2007-A-10543; GI2-1WES5P-0431**  
Graus, M.; Müller, M.; Wisthaler, A.; Hansel, A.  
High resolution PTR-TOFMS: performance assessment and applicability in atmospheric sciences

**XY0432; EGU2007-A-11646; GI2-1WES5P-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; GI2-1WES5P-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; GI2-1WES5P-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; GI2-1WES5P-0435**  
Monitoring atmospheric greenhouse gases – results from a continental tall tower measurement station at Bialystok, Poland

**XY0436; EGU2007-A-09330; GI2-1WES5P-0436**  
Suttiiwong, N.; Mair, U.; Birk, M.; Wagner, G.; Cherednichenko, S.  
TErahertz and submit LImb Sounder (TELIS),”Development and characterization a cryogenic THz heterodyne receiver for TELIS”

**XY0437; EGU2007-A-09410; GI2-1WES5P-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; GI2-1WES5P-0438**  
Feist, D. G.; Geibel, M.; Gerbig, C.; Heimann, M.  
Ground based FTIR system for high-accuracy measurements of atmospheric CO2 and CH4 columns

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**GI3 Instrumentation for Ocean Observatories and Early Warning Systems**
(co-listed in OS, NH & SM) – Posters

Convener: Waldmann, C.  
Co-Conveners: Person, R., Favalli, 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; GI3-1WES5P-0439**  
De Santis, A.; Di Mauro, D.; Cifarella, L.; Beranzoli, L.; Favalli, P.; Vitale, S.  
GEOSTAR deep seafloor magnetic observations in Tyrrhenian Sea

**XY0440; EGU2007-A-09592; GI3-1WES5P-0440**  
Favalli, 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; GI3-1WES5P-0441**  
Baehr, J.; McInerney, D.; Keller, K.; Marotzke, J.  
Global Optimization of an observing system design for the Tyrrhenian Sea

**XY0442; EGU2007-A-07449; GI3-1WES5P-0442**  
Karstensen, J.; Send, U.; Pinck, A.; Busack, M.  
A small and lightweight telemetry buoy module for open ocean moorings

**XY0443; EGU2007-A-09679; GI3-1WES5P-0443**  
Lo Bue, N.; Calcara, M.; Etiope, G.; Favalli, P.  
Investigation of Benthic Boundary Layer processes through ocean moorings

**XY0444; EGU2007-A-02316; GI3-1WES5P-0444**  
ROSE project: development and demonstration of a “Mobile Response Observatory” prototype.

**XY0445; EGU2007-A-01474; GI3-1WES5P-0445**  
Barrera, C.; Rueda, MJ; Elgue, JC; Llimas, O.  
The ACOMAR Canarias moored buoy network: A new contribution for CoastalGOOS
XY0446; EGU2007-A-03794; GI3-1WE5P-0446  
Karpen, V.; Thomsen, L.; Viegutz, 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  
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  
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.; Giovannelli, G.; Petritoli, A.; Palazzi, E.; KostadinoV, I.  
New spectrometers for atmospheric trace gases measurements 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  
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.  
Assessing Inland 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.; Fensholt, 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.; Mandlburger, 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.; Uribarri 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) – Posters

Convener: Mohrlok, 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.; Musolf, 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.; Hötzl, H.
Long term investigations of the colmation processes at a real sewer defect

A0099; EGU2007-A-10404; HS10-1WE4P-0099
Mohrlok, U.; Bethge, E.
Balancing water and solute fluxes in unsaturated zones in urban areas

A1000; EGU2007-A-11213; HS10-1WE4P-0100
Howarter, K.; Sansalone, J.
Mediation of Urban Runoff-metal Speciation as a Result of Engineered Infiltration

A1001; EGU2007-A-11060; HS10-1WE4P-0101
Treskatis, C.
Hydrogeological-microbial Characterization and Risk Assessment of Urban Water Catchments

A1002; EGU2007-A-07951; HS10-1WE4P-0102
Musolf, A.; Leschik, S.; Strauch, G.; Moeder, M.; Wernrich, R.; Osenbrueck, K.; Schirmer, M.
Massbalance and integrated modelling of urban micropollutants

A1003; EGU2007-A-11332; HS10-1WE4P-0103
Boving, T.B.
Attenuation of dissolved stormwater runoff contaminants

A1004; EGU2007-A-11501; HS10-1WE4P-0104
Boving, T.; Zhang, W.

A1005; EGU2007-A-02752; HS10-1WE4P-0105
Abdel-Hafez, T.; Schluemichter, C.
Selected geotechnical properties related to clay minerals of rocks of the Eocene Thebes Formation, Egypt

A1006; 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

A1007; EGU2007-A-00156; HS10-1WE4P-0107
Mavlyanov, P.N.; Mavlyanov, G.N.
Geological and engineering problems of the Tashkent Metropolitan construction.

A1008; EGU2007-A-08551; HS10-1WE4P-0108
Pisciotta, A.; Nigro, F.; Cusimano, G.; Favara, R.; Renda, P.
Vulnerability map of the Nebrodi Mts Area (Sicily)

A1009; EGU2007-A-10962; HS10-1WE4P-0109
Pérez-Zuezadas, J.; Cortes, A.; Escolero, O.
Using hydrogeochemical data as indicators to analyze the flow path in a fault zone

12:00 END OF SESSION
### 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.

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>15:45–16:00</td>
<td>Fluid mass balance inconsistency in density-dependent flow through quartz sand column.</td>
<td>Lunati, I.; Jenny, P.</td>
</tr>
<tr>
<td>16:00–16:15</td>
<td>An efficient multiscale finite-volume method for modeling density driven flow in porous media</td>
<td>16:15–16:30; EGU2007-A-10289; HS12-1WE4O-004</td>
</tr>
<tr>
<td>16:30–16:45</td>
<td>Hydro-thermal coupling in a rough fracture</td>
<td>Neuvile, A.; Toussaint, R.; Schmittbuhl, J.</td>
</tr>
<tr>
<td>16:45–17:00</td>
<td>Fault displacements, damage zones, and associated fracturing in geothermal reservoirs</td>
<td>17:00 END OF SESSION</td>
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</tbody>
</table>

### 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.  
**Lecture Room 31**  
**Chairperson:** N.N.

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
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<tr>
<td>13:30–14:00</td>
<td>Colloid transport in unsaturated porous media: on the role of the liquid-gas interface (solicited)</td>
<td>Flury, M.</td>
</tr>
<tr>
<td>14:00–14:15</td>
<td>Particle facilitated transport of cadmium in soil macro pores</td>
<td>14:15–14:30; EGU2007-A-08563; HS15-1WE3O-003</td>
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<tr>
<td>14:30–14:45</td>
<td>Impact of Intermittent flow events on Generation and Mobilization of Colloidal Particles in Surface-Exposed Fractured Chalk</td>
<td>Weisbrod, N</td>
</tr>
<tr>
<td>14:45–15:00</td>
<td>Mobilisation of As-containing Colloids by Liming?</td>
<td>17:00 END OF SESSION</td>
</tr>
<tr>
<td>15:00–15:15</td>
<td>Reactive transport and transformation in soils: Simultaneous investigation of the interplay and interdependencies of hydraulic, chemical and biological processes</td>
<td>Totsche, K.</td>
</tr>
</tbody>
</table>

**END OF SESSION**
A0122; EGU2007-A-07553; HS15-1WE4P-0122


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

Cause, 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; Rajbandhari, 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

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HS18 Persistent organic pollutants in soils: sources, sinks, and processing

Convener: Gocht, T.
Co-Conveners: 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


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

Wehre, 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, and implications – Posters

Convener: Hannah, D.
Co-Conveners: 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.; Trinic, D.; Roje-Bonacci, T.

Analyses of water temperature regime at Danube and its tributaries in Croatia

A0136; EGU2007-A-01774; HS22-1WE4P-0136


Alpine stream temperature response to storm events

A0137; EGU2007-A-05002; HS22-1WE4P-0137

Brown, L.E.; Hannah, D.M.

Stream temperature dynamics within a New Zealand glacierized river basin

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10:00 END OF SESSION
| A0139; EGU2007-A-11359; HS22-1WE4P-0139 | Zweimüller, I. | Temperature increase in the Austrian Danube - causes and consequences |
| A0141; EGU2007-A-05961; HS22-1WE4P-0141 | Ducharme, A. | The combined water-balance and water temperature model LARSIM-WT |
| A0142; EGU2007-A-07001; HS22-1WE4P-0142 | Haag, I. | 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 Suldalstølen, and its effect on the water temperature |
| 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) |
| A0148; EGU2007-A-07494; HS22-1WE4P-0148 | Moog, O.; Olenböck, 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. |
| 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.; Periffer, S.; Reinhardt, A. | Quantitative analysis of climatic and hydrological controls on solute dynamics in the riparian zone |
| 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 |

12:00 LUNCH BREAK
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.

Kennedy, M.P.; Soulsby, C.; Racey, P.A.; Iason, G. Ecosystem 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

16:00–16:15: EGU2007-A-07417; HS23-1WE4O-003
Soulsby, C.; Moore, R.D.; Hinch, S.G. Interstitial flow rates in simulated Atlantic salmon nests

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. Too much water? Challenging the wisdom that regulated rivers need higher minimum flows

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

17:00 ENDOF SESSION

HS27 Open session on catchment modelling and process analysis

Convener: Moussa, R.
Co-Conveners(s): Uhlenbrook, S., Lisched, 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

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
Rengas, 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

Jackson, B.; Francis, O; Progbrook, Z; Marshall, M; Reynolds, B; McIntyre, N; Sowellay, I; Wheater, 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.; Cattan, P.; Voltz, M. Rainfall-runoff modelling in Northern-Afghanistan

11:45–12:00: EGU2007-A-07336; HS27-1WE2O-005
Bardossy, A; Ayros, E; Schaefer, P. Rainfall-runoff modelling 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.; Iroum, 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 hydlogic models
Meeting Programme

14:45–15:00; EGU2007-A-09818; HS27-1WE3O-005
Schmitz, O.; Karssenberg, 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-Conveners(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., LISCHEID, G., ANDRIEU, H., LAWLER, D.
A0151; EGU2007-A-10636; HS27-1WE4P-0151
Williams, A.; Dowd, J; Heppell, C
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
Esteves, M.; Miscioscia, J. M.
Experimental study of surface runoff under simulated rainfall: effects of rain intensity variations.
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 obtaining a large scale effective hydraulic parametrization
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.; Oguntunde, 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 modelling: 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
Luzzo, L.; Noto, L.V.; La Loggia, G.
Modelling runoff with a conceptual model based on integration 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
Distributed conceptual modelling considering sub-grid variability of land use in a mesoscale lowland catchment in Sweden
A0164; EGU2007-A-07676; HS27-1WE4P-0164
Nicolòtina, 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 processes 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
Pincovschi, I.; Gogose Nistoran, D.E.; Armas, I.; Rotaru, E.
Use of HEC-HMS rainfall-runoff model in the Subcarpathian Prahova Valley-Romania
A0168; EGU2007-A-07570; HS27-1WE4P-0168
Khatibi, R.; Butler, 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 topographically 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 surrounding soil domain in an integrated groundwater–surface water model
A0173; EGU2007-A-03752; HS27-1WE4P-0173
Bethers, U.; Gaiedlene, J.; Sennikovs, J.; Timuhiinas, 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
HS37 Sustainable catchment management: assessing water quality on the catchment scale – Posters

**Convenor:** Bormann, H.  
**Co-Conveners:** Foerder, N., Voltz, M., Bogena, 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, R.; 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.; Wegricht, 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.; Wegricht, 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 Mega-polis lignite district area"

**HS42 Integrated water resources assessment, with special focus on developing countries**

**Conveners:** van der Zaag, P.  
**Co-Conveners:** Uhlenbrook, S., Rosbjerg, D., van de Giesen, N.

**Display Time:** Thursday, 8:30–8:45

**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
Katifl, L.; Feyen, J.; Letcher, R.A.
An integrated catchment model for my developing country catchment, or, choosing a bride for my son

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-00103; 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.; Vanclooster, 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
Cenccur Curs,c, 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 Hosper’s 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 paleomagnetic 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, J.P; 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, J.P
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 Mouël, 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)
The Blake excursion recognized in marine cores from the southern hemisphere.

Biggin, A.
The quasi-perpendicular method of absolute paleointensity determination: application to multidomain samples.

MPRG04 One hundred years after Brunhes: geomagnetic reversal and paleointensity behaviour (co-listed in GD and NP) – Posters

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, J.P.
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
Lerbdemko, 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.; Carbene, V.; Stebani, 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.

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
Macrì, P.; Sagnotti, L.; Lucchi, R.G.; Rebisco, 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

A0206; EGU2007-A-09012; MPRG07-1WE3P-0206
Coimbra, R.; Rey, D.; Mohamed, K.; Vilas, F.; Frederichs, T.
Magneto-mineralogical 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.
Paleomagnetism 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
Ziółkowski, P.
Paleomagnetism of Middle Oxfordian limestones from the Kraków Upland (Poland) - primary record or Cenozoic overprint?

A0212; EGU2007-A-05721; MPRG07-1WE3P-0212
Muxworthy, A.; Haslop, D.
Revisiting hysteresis quantification and representation.

A0213; EGU2007-A-07563; MPRG07-1WE3P-0213
Diaz, M.; Costanaz-Alvarez, V.; Surja, J.
Hydrocarbon-induced magnetic authigenesis in Guafita and El Furrial oil fields, (Venezuela).

A0214; EGU2007-A-05695; MPRG07-1WE3P-0214
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
Macrì, P.; Sagnotti, L.; Lucchi, R.G.; Rebisco, M.
A relative geomagnetic paleointensity stack for the past 270 kyr from the western continental rise of the Antarctic Peninsula.

Authors in Attendance: Wednesday, 08:30–10:00
Poster Area Hall A
Chairperson: N.N.

Authors in Attendance: Wednesday, 10:30–12:00
Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 13:30–15:00
Poster Area Hall A
Chairperson: FRANKE, C.

Authors in Attendance: Wednesday, 15:30–17:00
Poster Area Hall A
Chairperson: N.N.
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
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-04238; MPRG07-1WE4P-0221
Szurlies, M.
Lower Muschelkalk magnetostratigraphy from Central Germany and its relationship to the Middle Triassic geomagnetic polarity timescale

A0222: EGU2007-A-04346; MPRG07-1WE4P-0223
Magnetobiostatigraphy of the Vikinghøgda Fm. Central Svalbard and the geomagnetic polarity timescale for the Lower Triassic

A0223: EGU2007-A-09171; MPRG07-1WE4P-0224
Trifonova, P.; Zhelez, Zh.; Petrova, T.
Locations of Curie point depths and Moho of the Bulgarian territory

A0224: EGU2007-A-00771; MPRG07-1WE4P-0225
Vlcko, J.; Jezny, M.; Durmekova, T.; Adam-cova, R.; Brcek, M.
Thermal expansion of rocks, a part of extremely slow slope displacements

A0225: EGU2007-A-00771; MPRG07-1WE4P-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

A0228: EGU2007-A-05246; MPRG14-1WE4P-0228
Saliferino, G.; Bagdassarov, N.; Schmidt, M.W.
Interconnectivity of Iron-sulfide Melts in an Olivine Matrix

A0229: EGU2007-A-07761; MPRG14-1WE4P-0229
Dysthe, D.; Bisschop, J.; Jettestuen, E.
Pattern formation on sodium chloride crystal surfaces under stress

A0230: EGU2007-A-00384; MPRG14-1WE4P-0230
Büyükaraç, A.; Bektas, O.
Curie point depth of inner East Anatolia (Turkey)

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
Vicko, J.; Jezny, M.; Durmekova, T.; Liseak, P.; Adam-cova, R.; Breck, 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

A0228: EGU2007-A-05246; MPRG14-1WE4P-0228
Saliferino, G.; Bagdassarov, N.; Schmidt, M.W.
Interconnectivity of Iron-sulfide Melts in an Olivine Matrix

A0229: EGU2007-A-07761; MPRG14-1WE4P-0229
Dysthe, D.; Bisschop, J.; Jettestuen, E.
Pattern formation on sodium chloride crystal surfaces under stress

A0230: EGU2007-A-00384; MPRG14-1WE4P-0230
Büyükaraç, A.; Bektas, O.
Curie point depth of inner East Anatolia (Turkey)
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.; Federnesser, 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
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
Meeting Programme

Sergey Soloviev Medal Lecture – Posters

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.-I.; Tsai, 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 precipitation estimates (solicited)

XY0471; EGU2007-A-10486; NH1.04-1WE3P-0471
Amftai, 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 storm 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.; Sanò, P; Smith, E.A.; Tripoli, G.
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.; Dunjon, 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 Automatic Acoustic Depth Gauge Measurements

XY0487; EGU2007-A-06145; NH1.04-1WE3P-0487
Tapiador, FJ; Martinez, MA; Gonzalez, 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.; Ölafsson, H.
Contribution of orography to precipitation distribution in Iceland

XY0490; EGU2007-A-07260; NH1.04-1WE3P-0490
Yokoyama, C.; Takabayu, 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
Ölafsson, 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.; Albanoni, 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.; Ölafsson, 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
CloudSat radar retrievals for evaluation of snowfall and snowpack characteristics

XY0502; EGU2007-A-03362; NH1.04-1WE3P-0502
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.; Cremolini, 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
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, G.; Nagy, J.; Nemeth, P.
The updated Hungarian weather radar network

XY0510; EGU2007-A-09484; NH1.04-1WE3P-0510
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.; Gocht, M.; Malamud, B.D.; Pizzolto, 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

16:30–16:45; EGU2007-A-06761; NH1.05-1WE4O-001
Rossa, A. M.
The COST 731 Action 'Propagation of Uncertainty in Advanced Meteo-hydrological Forecast Systems' (solicited)

16:45–17:00; 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.; Morgilio, A.; Alberoni, P.P.; Porciu, 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
Schaake, 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
Diomede, T.; Davolio, S.; Marsigli, C.; Miglietta, M.M.; Morgilio, A.; Moscatello, A.
A meteo-hydrological 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 (PQPFs) 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
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
Diomede, T.; 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; NH1.06-1WE3O-001
Hehemann, K.; Finke, U.; Druë, C.; Hauf, T.
Comparison of lightning polarity and amplitude measured by a regional SAFIR network to operational BLIDS data

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15:45–16:00; EGU2007-A-05137; NH1.06-1WE4O-002
Loju, 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
Berthelier, 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 convective 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

Convenor: Betz, H.
Co-Conveners: 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.; Yar, 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
Veneksky, S.; Woodward, S. Simulation of global lightning distribution based on thermodynamic and aerosol hypotheses

XY0528; EGU2007-A-05363; NH1.06-1WE5P-0528
Satori, G.; Lemperger, I. Areal variations of global lightning on the 11-year solar cycle

XY0529; EGU2007-A-01818; NH1.06-1WE5P-0529

XY0530; EGU2007-A-07943; NH1.06-1WE5P-0530
Lidvansky, A.S.; Kheddarinov, 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. Relatian 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

Convenor: Wasowski, J.
Co-Conveners: 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 and Ju-Fen-Err mountain area

XY0538; EGU2007-A-06358; NH3.04-1WE5P-0538
Shieth, 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., 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.; Marilifier, 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

14:30–14:45; EGU2007-A-06369; NH3.05-1WE3O-005
Pavanelli, N.;: Capaccioni, B.; Vaselli, O.; Sarocchi, D.; Flors, M.; Falorni, G.; Tassi, F.; Duarte, E.
Mass movement hazard at Izuu volcano (Costa Rica): the Rio Reventado debris avalanche case study

14:45–15:00; EGU2007-A-06014; NH3.05-1WE3O-006
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).

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
Mennier, P.; Hovius, N.; Haines, J.
Rate and Pattern of earthquake-induced landslides and their relation to seismic shaking

17:00 END OF SESSION

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: 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 Chufenshanshan 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.; Zézere, 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, E.
The seismically triggered deep-seated landslide of Praia do Telheiro (SW Portugal)

XY0556; EGU2007-A-07349; NH3.05-1WE5P-0556
The 2006 Leyte landslide, Philippines triggered by a small 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
Nep, 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.; Kayh, 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.; Hoetzl, H.; Ehret, D.; Huber, G.; Danchiv, A.; Bretotean, 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 in California, in response to and countermeasures of landslides in Korea

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.

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 Senikent 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 Schinosi, F.; Ruopolo, S.; Calcattera, 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.; Wiehöfer, J.; Ihringer, J.
Hydrological patterns and processes of a deep seated creeping slope at Ebnit, Vorarlberg

9:30–9:45; EGU2007-A-08804; NH3.06-1WE1O-005
Mc Ardell, 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
Gregoretti, C.; Dalla Fontana, G.
Different regimes of critical rainfalls for debris flows initiation by channel-bed failure of the Dolomites

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
XY0563; EGU2007-A-01751; NH3.06-1WSE5P-0563
Yalcin, A.
Rainfall-landslide relationship for East Black Sea region (Turkey)

XY0564; EGU2007-A-02191; NH3.06-1WSE5P-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; NH3.06-1WSE5P-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; NH3.06-1WSE5P-0566
Frattini, P.; Crosta, G.B.; Sosio, R.
Statistical and physically-based approaches for probabilistic rainfall thresholds of shallow landslide

XY0567; EGU2007-A-03766; NH3.06-1WSE5P-0567
Melchiorre, C.; Frattini, P.; Stalsberg, K.; Crosta, G.; Blińka, L.H.; Hoydal, Ø.
Scenario modelling of present and future shallow landslide probability

XY0568; EGU2007-A-08114; NH3.06-1WSE5P-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; NH3.06-1WSE5P-0569
Andreats, P.; Hagen, K.; Lang, E.; Stary, U.
Analysis of landslide events in two Austrian communities (Gesen and Haslau) in the year 2005

XY0570; EGU2007-A-03009; NH3.06-1WSE5P-0570
Bardou, E.; Ravot, E.; Metzger, R.; Spinello, I.; Riehle, N.; Jaboyedoff, M.
Coupling between hillslope processes and river system. Case study of "La Tinière", southwestern Switzerland

XY0571; EGU2007-A-03338; NH3.06-1WSE5P-0571
Ambrosi, C.; Thüring, M.; Lüsch, M.
Triggering and run-out of superficial landslides caused by heavy rainfall: coupled modeling at the catchment level

XY0572; EGU2007-A-04063; NH3.06-1WSE5P-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; NH3.06-1WSE5P-0573
Tunusuoğlu, M.C.; Sarp, G.; Duzgun, H.S.B.; Gökeoglu, C.
Debris Flow Risk Mapping Based on Geographic Information Technologies: a case from SW Turkey

XY0574; EGU2007-A-05933; NH3.06-1WSE5P-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; NH3.06-1WSE5P-0575
Choi, S. I; Choi, Y. K.
Case Study on Debris flows in Korea

XY0576; EGU2007-A-06398; NH3.06-1WSE5P-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; NH3.06-1WSE5P-0577
Nolte, E.
GIS-based hazard analysis of torrents and debris flows in Walgau (Vorarlberg/Austria)

XY0578; EGU2007-A-06149; NH3.06-1WSE5P-0578
Simeone, V.; Mancarella, D.
Analysis of capillary barrier effects in the activation of debris avalanches in pyroclastic cover

XY0579; EGU2007-A-03133; NH3.07-1WSE5P-0579
Davies, T R H; McSaveney, M J
High pore fluid pressure effects on granular material behaviour and granular slope instability triggering

XY0581; EGU2007-A-05831; NH3.07-1WSE5P-0581
Miyamoto, K.; Itoh, T.
Treatments of static friction force in numerical simulation for mass movements

XY0582; EGU2007-A-05870; NH3.07-1WSE5P-0582
Hotta, N.; Miyamoto, K.
Phase transition in debris flows over a rigid bed

XY0583; EGU2007-A-06159; NH3.07-1WSE5P-0583
Simeone, V.
Recovery of strength along shear surface in clay soils

XY0584; EGU2007-A-06571; NH3.07-1WSE5P-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; NH3.07-1WSE5P-0585
Taberlet, N.; Richard, P.; Delannay, R.
Density inversion in rapid granular flows: the supported regime

XY0586; EGU2007-A-08614; NH3.07-1WSE5P-0586
Schneider, D.; Huggel, C.; McAr dell, B.; Bartelt, P.; Haeberli, W.
The influence of ice on the mobility of rapid rock-ice mass movements: a concept for systematic research

XY0587; EGU2007-A-08738; NH3.07-1WSE5P-0587
Kowalski, J.K; Bartelt, P.B.; Jim McElwaine, J.M.
Two-phase debris flows modeling

XY0588; EGU2007-A-09018; NH3.07-1WSE5P-0588
Sosio, R.; Crosta, G.B.
Rheological characterization of large particle fluids
The hazard zonation of rockfall along Chalus road in north of Iran

Lambert, S.; Bertrand, D.; Nicot, F.; Gotteland, P.

Rockfall susceptibility assessment at Naples, Italy, through inter-comparison of different models

SIMEONE, V.; GRASSI, D.; GRIMALDI, S.; Masetti, M.; Masetti, M.; Simeone, V.; Grasso, V.; Grassi, D.; Grimaldi, S.; Masetti, M.; Masetti, M.

Stability problems in apulian rupestrian settlements

XY0594; EGU2007-A-06355; NH3.08-1WE5P-0594
de Luca Tuppiti Schinosa, F.; Cavallaro, M.; Calcuterra, D.

Rockfall for past, present and future scenarios using two modelling approaches

Quantifying the protective function of a forest against rockfall for past, present and future scenarios using two modelling approaches

XY0597; EGU2007-A-06723; NH3.08-1WE5P-0597
Bigot, C.; Dorren, L.; Berger, F.

Modelling rockfall hazard in the Storfjorden area, western Norway

XY0595; EGU2007-A-06437; NH3.08-1WE5P-0595
Crostoa, G.B.; Frattini, P.; Agliardi, F.; Andreolli, M.; Bilia, L.H.

Stability problems in apulian rupestrian settlements

XY0594; EGU2007-A-06355; NH3.08-1WE5P-0594
de Luca Tuppiti Schinosa, F.; Cavallaro, M.; Calcuterra, D.

The hazard zonation of rockfall along Chalus road in north of Iran

XY0592; EGU2007-A-00423; NH3.08-1WE5P-0592
Ghazipour, N.; Orumiey, A.; Entezam Soltani, I.; Pirouz, M.

Experimental results of active monitoring and Earth's crust on wave velocity variations

XY0599; EGU2007-A-07087; NH3.08-1WE5P-0599
Thuering, 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.; Scarsacca Mugnozza, G.

Report and preliminary interpretations about the 22nd August 2006 anomalous rock fall along the Gran Sasso NE wall (central Apennines, Italy)

XY0599; EGU2007-A-06543; NH3.08-1WE5P-0599
GRASSI, D.; GRIMALDI, S.; Masetti, M.; Masetti, M.

Rockfall susceptibility assessment at Naples, Italy, through inter-comparison of different models

XY0594; EGU2007-A-06355; NH3.08-1WE5P-0594
de Luca Tuppiti Schinosa, F.; Cavallaro, M.; Calcuterra, D.

Stability problems in apulian rupestrian settlements

XY0594; EGU2007-A-06355; NH3.08-1WE5P-0594
de Luca Tuppiti Schinosa, F.; Cavallaro, M.; Calcuterra, D.

The hazard zonation of rockfall along Chalus road in north of Iran

XY0592; EGU2007-A-00423; NH3.08-1WE5P-0592
Ghazipour, N.; Orumiey, A.; Entezam Soltani, I.; Pirouz, M.

Experimental results of active monitoring and Earth's crust on wave velocity variations

XY0599; EGU2007-A-07087; NH3.08-1WE5P-0599
Thuering, 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.; Scarsacca Mugnozza, G.

Report and preliminary interpretations about the 22nd August 2006 anomalous rock fall along the Gran Sasso NE wall (central Apennines, Italy)

XY0599; EGU2007-A-06543; NH3.08-1WE5P-0599
GRASSI, D.; GRIMALDI, S.; SIMEONE, V.

Stability problems in apulian rupestrian settlements

XY0594; EGU2007-A-06355; NH3.08-1WE5P-0594
de Luca Tuppiti Schinosa, F.; Cavallaro, M.; Calcuterra, D.

Rockfall susceptibility assessment at Naples, Italy, through inter-comparison of different models

XY0595; EGU2007-A-06437; NH3.08-1WE5P-0595
Crostoa, G.B.; Frattini, P.; Agliardi, F.; Andreolli, M.; Bilia, 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
Thuering, 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.; Scarsacca Mugnozza, G.

Report and preliminary interpretations about the 22nd August 2006 anomalous rock fall along the Gran Sasso NE wall (central Apennines, Italy)
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.
Preursors 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 phenomenon and reliability of prediction – Posters

Convener: Contadakis, M.
Co-Conveners(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.; Maggiplinto, 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
Bobrovskij, 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, C.
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.; Nakamura, 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.; Kasparek, 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
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.; Moisidis, 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.; Mateuciuc, 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 Zwieteren, G.J.; Gutierrez, M.A.; Hassen, 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 Eskibehir (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 wildfires: models, theory, and reality (co-organized by BG & NH) – Posters

Convener: McKenzie, D.
Co-Conveners(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 geostatistical methodologies.

XY0630; EGU2007-A-11424; NH8.04/BG1.04-1WE2P-0630
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.
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.; Kanovsky, 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
Görgen, 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; REJALAGA, I; 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: Bostenuaru, M.
Co-Convener(s): Kreibich, H., Goretii, 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
Goretii, 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
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.; Aghaie, M. Investigating empirical equations of determining concentration 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

17:30–17:45; EGU2007-A-00064; NH9.06-1WE4O-003 Kamai, T. Earthquake risk assessment of artificial fill slope in urban residential region

18:00–18:15; EGU2007-A-00064; NH9.06-1WE4O-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.; Goretii, 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-Conveners: Kreibich, H., Goretii, A.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 10:30–12:00
Poster Area Halls X/Y
Chairperson: SEIFERT, I.
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 volcano - 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.; Efimenko, N.; Chalaya, E.; Povolotskaya, N.; Kortunova, Z.; Senik, I.; Rubinstein, K.
Studies of relation between basic socially significant diseases 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.; Stefanopoulos, 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.
12:00-9:15; 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 (Romania) intermediate-depth earthquakes

9:30-9:45; EGU2007-A-11536; NP3.06-1WE1O-004
Lorenzo-Martin, 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.

Tarquis, A.M.; Hetherington, A.; Heaton, 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 multifractal 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

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, L.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-005
Rigon, R.; Cordano, E.
On soil water pressure dynamics at the short timescale

18:15–18:30; EGU2007-A-11318; NP3.08-1WE5O-006
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-007
Harter, T.; Knudby, C.
Effective conductivity in regular periodic media with cubic inclusions

18:45–19:00; EGU2007-A-10893; NP3.08-1WE5O-008
Cetinkaya, C.P.; Harmanciglu, 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; NP4.01-1WE2O-001
Hsieh, W.
Nonlinear principal component analysis of noisy data (solicited)

9:00–9:15; EGU2007-A-09935; NP4.01-1WE2O-002
Rust, H. W.
The Detection of Long-Range Dependence formulated as a Model Selection Problem (solicited)

9:15–9:30; EGU2007-A-00480; NP4.01-1WE2O-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; NP4.01-1WE2O-004
Palus, M.; Novotna, D.
Modes of atmospheric variability and their interactions

9:45–10:00; EGU2007-A-00430; NP4.01-1WE2O-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-006
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
Kristoforov, A.V.; Kristoforova, 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
Hawkins, J.; Christov, I.; Warn-Varnas, A.
Statistical measures of distribution patterns of silicon and calcium in marine sediments

11:30–11:45; EGU2007-A-02459; NP4.01-1WE2O-005
Bube, K.; Klenke, T.; Freund, J.; Feudel, U.
Statistical measures of distribution patterns of silicon and calcium in marine sediments

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

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
Moro, I.
Unstable periodic orbits in self-exciting dynamos

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.
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 Analogues

18:15–18:45; EGU2007-A-03332; NP4.02-1WE5O-004
Juillet-Leclerc, A.; Thirié, 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.; 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
Schaeke, J.
HEPEX status report

13:45–14:00; EGU2007-A-11123; NP5.05-1WE3O-002
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.; Thielen, J.
Forecasting skill assessment for the European flood alert system EFAS
14:30–14:45; EGU2007-A-08203; NPS.05-1WE3Q-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; NPS.05-1WE3Q-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; NPS.01-1WE3P-0670
Chashechkin, Yu.D
Regular and singular components of environmental flows

XY0671; EGU2007-A-03503; NPS.01-1WE3P-0671
Sergeev, D.; Soustova, I.; Troitskaya, Yu.
Experimental studying of turbulent buoyant jet in a stratified fluid

XY0672; EGU2007-A-06316; NPS.01-1WE3P-0672
Kostrykin, S.; Khapaev, A.; Ponomarev, V.; Yakushkin, I.
Lagrangian structures in time-periodic vortical flows

XY0673; EGU2007-A-07799; NPS.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; NPS.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; NPS.02-1WE3P-0675
Kopnin, S.I.; Popel, S.I.
Excitation of infrasonic oscillations during meteor fluxes

XY0676; EGU2007-A-00928; NPS.02-1WE3P-0676
Bakhonin, V.V.; Ermoshkin, A.V.; Kazakov, V.I.; Kemarkay, O.N.; Lobanov, V.N.; Repina, I.N.; Titov, V.I.; Zuiikova, E.M.
The diurnal dynamics of surface wave anomalies in a shelf area

XY0677; EGU2007-A-00943; NPS.02-1WE3P-0677
Khristoforov, A.; Khrishto Toro, N.; Burganov, B.
Fourier and wavelet analysis of the thermograms: application to the rock sequence investigations

XY0678; EGU2007-A-02430; NPS.02-1WE3P-0678
McDonald, B.
Instantaneous shock formation in Hertzian media

XY0679; EGU2007-A-02904; NPS.02-1WE3P-0679
Sergeev, D.A.; Soustova, I.A.; Troitskaya, Yu.
Experimental studying of turbulent buoyant jet in a stratified fluid

XY0680; EGU2007-A-03539; NPS.02-1WE3P-0680
Gorsikov, K.; Soustova, I.A.; Shevz, L.
Composite solitons for the Choi-Camassa model (CN-model) and their importance for the description of the evolution of internal waves without amplitude and velocity constraint.

XY0681; EGU2007-A-04155; NPS.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; NPS.02-1WE3P-0682
Häusler, H.; Payer, T.; Tannberger, A.; Rank, D.; Papesch, W.
Thermal upwelling at Lake Neusiedl revised (Northern Burgenland, Austria)

XY0683; EGU2007-A-05707; NPS.02-1WE3P-0683
Annikenov, S.; Shira, V.
When the Hasselmann equation fails: "Fast" nonlinear evolution of water wave spectra

XY0684; EGU2007-A-06237; NPS.02-1WE3P-0684
Gula, J.; Plougouven, R.; Zeitlin, V.
Ageostrophic instabilities of balanced flows and their nonlinear evolution

XY0685; EGU2007-A-08315; NPS.02-1WE3P-0685
Johnson, E. R.; Esler, J. G.; Rump, O. J.
Orographically-generated nonlinear waves and shocks

XY0686; EGU2007-A-09964; NPS.02-1WE3P-0686
Perceival, J.; Holm, D.; Cotter, C.
A multilayer equation set for modelling large-scale ocean internal wave interactions

XY0687; EGU2007-A-10597; NPS.02-1WE3P-0687
Shernenev, 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; NPS.03-1WE3P-0688
Bardakov, R.N.; Vasiliev, A.Yu.
Dynamics of 3D periodic internal wave beams and concomitant singular elements

XY0689; EGU2007-A-02885; NPS.03-1WE3P-0689
Bécu, E.; Pavlov, V.
Uniformly rotating regular vortex structures

XY0690; EGU2007-A-08376; NPS.03-1WE3P-0690
Sutyrin, G.; Perrot, X.; Carton, X.
Vortex couples in an axisymmetric large-scale flow

XY0691; EGU2007-A-09896; NPS.03-1WE3P-0691
Esler, G.
The turbulent equilibration of an unstable baroclinic jet

428
NP6.05 Turbulence in the Atmosphere and Ocean (co-listed in AS & OS) – Posters

Convener: Yagüe, C.
Co-Conveners: Fraunie, P.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 13:30–15:00
Poster Area Halls XY
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-03572; 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
Vindel, J.M.; Yagüe, C.; Redondo, J.M.
Structure function analysis and intermittency of the atmospheric boundary layer

XY0697; EGU2007-A-09776; NP6.05-1WE3P-0697
Dobrynin, M.; Guenther, H.
Dynamics of Suspended Particulate Matter in the North Sea: Fusing Waves, Ocean Circulation and Transport Models with Remote Sensing Data

XY0698; EGU2007-A-02242; NP6.05-1WE3P-0698
Kartashova, E.
Coherent structures in wave turbulent transport - graphetheoretical approach

Ocean Sciences

OS2 Open session on coastal and shelf oceanography (co-listed in BG)

Convener: Shapiro, G.
Co-Conveners: de Swart, H.
Lecture Room D
Chairperson: SHAPIRO,G.I.

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.; Terletska, 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
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

11:30–11:45; EGU2007-A-02735; OS2-1WE2O-005
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
14:45–15:00; EGU2007-A-05029; OS2-1WE3O-004
Graewe, U.; Ribbe, J.; Wolff, J.-O.; Staneya, V.
Ventilation times scales for a subtropical bay from 3-D modelling

14:30–14:45; EGU2007-A-04744; OS2-1WE3O-005
Candelis, J.; Sheinau, 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
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-Conveners: de Swart, H.
Display Time: Wednesday, 08:00–19:30
AUTHORS IN ATTENDANCE: WEDNESDAY, 17:30–19:00
Post Area Halls X/Y
Chairperson: SHAPIRO, G.I.; DE SWART, H.

XY0703; EGU2007-A-01287; OS2-1WE3O-007
Izergin, 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; OS2-1WE3O-008
Buck, J.; Lane-Serff, G.
Laboratory experiments of eddy blocking by ice shelves (solicited)

XY0705; EGU2007-A-01787; OS2-1WE3O-009
Nilsson, J.
Influence of Baroclinic flow on Induced-Voltage Measurements

XY0706; EGU2007-A-02029; OS2-1WE3O-0010
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; OS2-1WE3O-0011
Dommenget, D.; Latif, M.
Generation of Hyper climate Modes

XY0708; EGU2007-A-02919; OS2-1WE3O-0012
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; OS2-1WE3O-0013
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; OS2-1WE3O-0014
Akinova, A.; Schauer, U.; Danilov, S.; Androsov, A.
Outflow of shelf dense water in Arctic Ocean - Sotfjorden in Svalbard.

XY0711; EGU2007-A-04020; OS2-1WE3O-0015
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; OS2-1WE3O-0016
Cambron, 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; OS2-1WE3O-0017
Janekovic, I.; Kuzmic, M.
The Adriatic Sea tidal energy budget: energy fluxes and dissipation sinks

XY0714; EGU2007-A-04724; OS2-1WE3O-0018
Margolina, T.; Collins, C.A.; Rago, T.A.
Across-shore eddy transport off Central California (solicited)

XY0715; EGU2007-A-04929; OS2-1WE3O-0019
Gvelisiania, A.; Demetrasvili, D. I.; Kvaratskhelia, D. U.
Numerical study of the turbulent characteristics of cyclonic and anticyclonic

XY0716; EGU2007-A-05913; OS2-1WE3O-0020
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; OS2-1WE3O-0021
Gvelisiania, A.; Demetrasvili, D. I.; Kvaratskhelia, D. U.
Numerical study of the turbulent characteristics of cyclonic and anticyclonic vortical structures in the Black Sea

XY0718; EGU2007-A-06144; OS2-1WE3O-0022
Park, Y.-G.; Yeh, S.-W.
The origin of the Tsushima Warm Current in a high resolution ocean circulation model

XY0719; EGU2007-A-06474; OS2-1WE3O-0023
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; OS2-1WE3O-0024
Liao, H.R.; Yu, H.S.
The morphology, sedimentation and evolution of Changyuan Sand Ridge in Taiwan Strait, Southeastern Asia

XY0721; EGU2007-A-07067; OS2-1WE3O-0025
Raudsepp, U.; Siplgas, I.; 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; OS2-1WE3O-0026
Wolf, J.; Osuna, P.; Bolanos, R.; Monbaliu, J.; Arcilla, A.
Coupled wave and current modelling in the MARIE project

430
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

Author(s) in Attendance: Wednesday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0723; EGU2007-A-07830; OS2-1WES5P-0723
Early diagenesis of manganese and the sediment accumulation rate

XY0724; EGU2007-A-08221; OS2-1WES5P-0724
Eriksinn, C.; Hansson, D.; Omstedt, A.; Chen, D.
Reconstructing the past 500 years of river runoff to the Baltic Sea.

XY0725; EGU2007-A-08544; OS2-1WES5P-0725
Wählin, A. K.; Darelius, E.; Cenedese, C.; Lane-Serrif, G.
Laboratory observations of increased plume entrainment in the presence of submarine canyons and ridges (solicited)

XY0726; EGU2007-A-08610; OS2-1WES5P-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; OS2-1WES5P-0727
Hoitink, AJF; Peters, HC; Schroevers, M
Separating waves from turbulence in ADCP velocity measurements

XY0728; EGU2007-A-02001; OS2-1WES5P-0728
Griggar, T.; Poljak, L.; Schneeweiss, O.
The flow off the NW Gulf of Mexico slope before oncoming Loop Current eddies (solicited)

XY0730; EGU2007-A-10646; OS2-1WES5P-0730
Castro, R.; Lavin, MF; Beier, E; Amador Buenrostro, A.
Nutation of Fe-precipitates in sediments from the Mendeleev Ridge. Arctic Ocean

XY0731; EGU2007-A-10706; OS2-1WES5P-0731
De Boer, G.J.; Pietrzak, J.D.; Winterwerp, J.C.
Tidal straining induced upwelling in the Rhine ROFI (solicited)

XY0732; EGU2007-A-11218; OS2-1WES5P-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; OS2-1WES5P-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; OS2-1WES5P-0982
Bruschi, A.
Assimilation of meteoric observation in a coastal forecasting system, with cases study in the North Adriatic Sea

XY0743; EGU2007-A-00216; OS6-1WES5P-0734
De Bodt, 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

XY0745; EGU2007-A-04530; OS6-1WES5P-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; OS6-1WES5P-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; OS6-1WES5P-0747
Fujiki, T; Watanabe, S; Hosaka, T; Saino, T
Underwater profiling buoy system for observation of phytoplankton productivity
OS11 Temporal variability of ocean temperature (heat content) and salinity (freshwater content). (co-listed CL)

Conveners: Levitus, S. 
Co-Conveners: Rixen, M., Artale, V.
Lecture Room D
Chairperson: LEVITUS, S.

15:30–15:45; EGU2007-A-01554; OS11-1WEO4-001
Warming of the World Ocean, 1955-2006

15:45–16:00; EGU2007-A-05862; OS11-1WEO4-002
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; OS11-1WEO4-003
Korably, A.; Pnyushkov, A.; Johannessen, O.M.; Alekseev, G.; Smirnov, A. 
The Nordic Seas thermohaline system response to the large-scale atmospheric and advective anomalies

16:15–16:30; EGU2007-A-10950; OS11-1WEO4-004
Behera, S.; Yamagata, T. 
What Causes the Indian Ocean Warming?

16:30–16:45; EGU2007-A-04638; OS11-1WEO4-005
Maillard, C.; SeaDataNet Consortium 
SeaDataNet – a pan-european infrastructure for ocean and marine data management (solicited)

16:45–17:00; EGU2007-A-03578; OS11-1WEO4-006
Marullo, S.; Santoleri, R.; Guarracino, M.; Buongiorno Nardelli, B.; Artale, V. 
Sea surface temperature trends in the Mediterranean Sea: from interannual to decadal variations

17:00 END OF SESSION

OS10 Ocean Remote Sensing (colisted GD, CL) – Posters

Conveners: Schrama, E.
Co-Conveners: 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.

XY0748; EGU2007-A-06343; OS6-1WEP-0748
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; OS6-1WEP-0749
Mawji, E.; Gledhill, M.; Achterberg, E. 
Production and occurrence of specific organic iron complexes: siderophores in the Atlantic Ocean

XY0750; EGU2007-A-07609; OS6-1WEP-0750
Chever, F.; Beniarielli, E.; Blain, S.; Bowije, A.; Sarthou, G. 
Distribution of total dissolved iron during the natural iron fertilisation experiment KEOPS (Kerguelen Island, Southern Ocean)

XY0751; EGU2007-A-07903; OS6-1WEP-0751
Bucciarelli, E.; Sarthou, G.; Poulton, 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; OS6-1WEP-0752
Bange, H.W.; Walter, S. 
Nitrous oxide in the Costa Rica Dome area (eastern tropical North Pacific Ocean)

XY0753; EGU2007-A-09270; OS6-1WEP-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 processes.

XY0754; EGU2007-A-01891; OS10-1WEP-0754
Rosmorduc, V.; Benveniste, J.; Calvet, J.; Dorandeu, J.; Earith, D.; Lauret, O.; Picot, N.; Poilbarbe, P. 
Basic Radar Altimetry Toolbox & Tutorial

XY0755; EGU2007-A-04557; OS10-1WEP-0755
Oliveira, D.B.; Nolasco, M.R.; Peliz, A.; Dubert, J. 
Upwelling intensification and relaxation off central Portugal in summer 2005 from satellite data and numerical models

XY0756; EGU2007-A-05364; OS10-1WEP-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; OS10-1WEP-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; OS10-1WEP-0758
Combined airborne Radio-instruments for ocean and land studies (CAROLS)

XY0759; EGU2007-A-00398; OS10-1WEP-0759
Kuchma, T. 
Oil spills monitoring using remote sensing

XY0760; EGU2007-A-00837; OS10-1WEP-0760
Sergeivskaya, I.A. 
On nonlinearity of optical and radar methods for investigations of surface wave variability

XY0761; EGU2007-A-01739; OS10-1WEP-0761 
Cardellach, E.; Rius, A. 
New techniques to retrieve sea surface slopes’ PDF from GNSS reflected signals

OS10 Ocean Remote Sensing (colisted GD, CL) – Posters

Conveners: Schrama, E.
Co-Conveners: 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; OS10-1WEP-0754 
Rosmorduc, V.; Benveniste, J.; Dorandeu, J.; Earith, D.; Lauret, O.; Picot, N.; Poilbarbe, P. 
Basic Radar Altimetry Toolbox & Tutorial

XY0755; EGU2007-A-04557; OS10-1WEP-0755 
Oliveira, D.B.; Nolasco, M.R.; Peliz, A.; Dubert, J. 
Upwelling intensification and relaxation off central Portugal in summer 2005 from satellite data and numerical models

XY0756; EGU2007-A-05364; OS10-1WEP-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; OS10-1WEP-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; OS10-1WEP-0758 
Combined airborne Radio-instruments for ocean and land studies (CAROLS)

XY0759; EGU2007-A-00398; OS10-1WEP-0759 
Kuchma, T. 
Oil spills monitoring using remote sensing

XY0760; EGU2007-A-00837; OS10-1WEP-0760 
Sergeivskaya, I.A. 
On nonlinearity of optical and radar methods for investigations of surface wave variability

XY0761; EGU2007-A-01739; OS10-1WEP-0761 
Cardellach, E.; Rius, A. 
New techniques to retrieve sea surface slopes’ PDF from GNSS reflected signals
Circulation, heat and volume transport at 36N in the Atlantic

Vandermeirsch, E.; Charradeau, R.; Bonnat, A.; Fichaut, M.; Maillard, C.; Gaillard, F.; Autret, E.
Bay of Biscay’s temperature and salinity climatology

Vargas-Yáñez, M.Y.; Moya, FMR; García, MJG; García-Martínez, MGM; Salat, JS; Pascual, JP; Fernandez, MLF
Long term changes in sea level and heat content in the tropical Mediterranean

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)

Palazov, A.
Variability of temperature and salinity in the Western Black Sea

Zhang, R.-H.; Busalacchi, A.
Decadal Changes of the Oceanic Entrainment Temperature (Te) in the Tropical Pacific and Its Role in Modulating ENSO

Lombard, A.; Garric, G.; Cazenave, A.
Regional variability of sea level change using a global ocean model developed at MERCATOR Ocean

Nanjundiah, R.S.; Vinaychandran, P.N.; Sooraj, K.P
An Assessment of CCSM2 SST climatology over the northern Indian Ocean

Marcus, S.; Dickey, J.; Willis, J.
Non-steric sea level rise: Insights from interannual changes in Earth’s dynamic oblateness (J2)

OS14 Turbulent mixing in aquatic ecosystems - physical processes and ecosystem responses (co-listed in BG) – Posters

Conveners: Robinson, C.
Co-Conveners: 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.

OS13 Sensitivity of marine ecosystems and biogeochemical cycles to climate change (co-listed in BG, NP, CL) – Posters

Conveners: Robinson, C.
Co-Conveners: 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.

OS13 Sensitivity of marine ecosystems and biogeochemical cycles to climate change (co-listed in BG, NP, CL) – Posters

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Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: N.N.

Future ocean biogeochemical cycles sensitivity and robustness with an Earth system model

Mouchet, A.; Driesschaert, E.; Fichefet, T.

Marine processes in the frame of global climate change

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

Future ocean biogeochemical cycles sensitivity and robustness with an Earth system model

Mouchet, A.; Driesschaert, E.; Fichefet, T.

Modeling the effect of ENSO on the lower trophic level ecosystem of the Cold Tongue and the Warm Pool regions of the equatorial Pacific

Salihoglu, B.; Corcoran, V.; Oshchepkova, A.; Lomas, M.
Simulations of phytoplankton species and elemental cycles at BATSE: Model configuration and biogeochemical dynamics

Gangstø, R.; Gehlen, M.; Joos, F
Modelling pelagic calcite and aragonite biogeochemistry

The Atlantic Meridional Transect Programme

Robinson, C.; The AMT Team

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Gangstø, R.; Gehlen, M.; Joos, F
Modelling pelagic calcite and aragonite biogeochemistry

The Atlantic Meridional Transect Programme

Robinson, C.; The AMT Team
XY0788; EGU2007-A-07094; OS14-1WE5P-0788
Guadayol, O.; Peters, F.; MarrasĂ©, C.; Berdalet, E.; RoldĂĄn, 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

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Planetary and Solar System Sciences

PS1.0 Exploring the Solar System - Missions and Techniques
Convener: Muller, C.
Co-Conveners: 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
Foing, B.H., ILEWG, &
Status report from International Lunar Exploration Working Group

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
Milillo, A.
Modelling the environment of Mercury (solicited)

17:45–17:50; EGU2007-A-06180; PS1.0-1WE5O-002
Wurz, P.; Lammer, H.; Whitby, J.A.; Rohner, U.
Modelling of the Hermean Exosphere (solicited)

17:50–17:55; EGU2007-A-06410; PS1.0-1WE5O-003
Masse}
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.; Despain, D.; Doressoundiram, A.; Vernazza, P.; Cappacioni, F.; Forini, 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 BepiColombo 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 Composition

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

13:30–13:45; EGU2007-A-10477; PS2.0-1WE2O-001
Dehant, V.; Van Hoolst, T.; Mouquet, 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.; Neumann, G.
Improvement of the Mars rotation parameters using the a priori 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 lithosphere 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.; Takashina, T.; Matsuoka, A.; Hayakawa and MMO-SWG, H.
Science Operation Concept based on “the MDP scheme” for BepiColombo/MMO

15:00 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
Regional rumble: glacial earthquakes in Greenland
10:45–11:00; EGU2007-A-10269; SM1-1WE2O-002
Vallee, M.
The Mw8.6 earthquake pair in the Kuril (NorthWest Pacific) subduction zone: source processes and interaction
11:00–11:15; EGU2007-A-02483; SM1-1WE2O-003
Kennett, B.L.N.
Understanding Subduction Zone Structure (Beno Gutenberg Medal Lecture) (solicited)

11:45 END OF SESSION
SM6 Towards a European Reference Model

Convener: Morelli, A.
Co-Conveners: Trampert, J.
Display Time: Wednesday, 08:00–19:30
Poster Area Hall A
Chairperson: N.N.

14:00–14:15; EGU2007-A-04119; SM6-1WE5P-003
Meier, U.; Curtis, A.; Trampert, J.
A global crustal Model constrained by fundamental Mode Surface Waves

SM17 Topography of the Earth and Planets: from the deep Earth and planetary interiors to the surface

Convener: Cloetingh, S.
Co-Conveners: Thybo, H., Facenna, C., Mangold, N.
Display Time: Wednesday, 08:00–19:30
Poster Area Hall A
Chairperson: GABRIELSEN, R.H. AND THYBO, H.
A new lithospheric model as input for the European strengthmap  
Kaban, M.K.; Coetingh, S.C.; Tesouro, M.T.
poster SM17-1WE3P-0265

Poster Area Hall A
Chairperson: ARTEMIEV, A.M.; AND BADA, G.
Authors in Attendance: Wednesday, 13:30–15:00
Display Time: Wednesday, 08:00–19:30

Convener: Cloetingh, S.

From Source to Sink: Quantification of mass transfer from mountain ranges to active sedimentary basins in the Danube basin – Black Sea system (solicited)
Matenco, L.; Andriessen, P.

Pre- to post-rift low-temperature and denudation history of the Upper Rhine rift system, Germany (solicited)
Dreyer, C.; Glasmacher, U.A.; Bauer, F.; Stockli, D.; Wagner, G.A.

Late Cenozoic vertical tectonic displacements in mainland Portugal (West Iberia) (solicited)
Babuska, V.; Plomerova, J.; Achauer, U.; Vescey, L.

New apatite fission-track data from Jotunheim-Sognefjord, Norway (solicited)
Japsen, P.; Green, P.F.; Bonow, J.M.; Challiners, J.A.

From Source to Sink: Quantification of mass transfer from mountain ranges to active sedimentary basins in the Danube basin – Black Sea system (solicited)
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Late Cenozoic vertical tectonic displacements in mainland Portugal (West Iberia) (solicited)
Babuska, V.; Plomerova, J.; Achauer, U.; Vescey, L.

New apatite fission-track data from Jotunheim-Sognefjord, Norway (solicited)
Japsen, P.; Green, P.F.; Bonow, J.M.; Challiners, J.A.
9:30–9:45; EGU2007-A-06212; SSS1-1WEIO-005
Rellini, L.; 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; SSS1-1WEIO-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 pedoplasmation: 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 Vliet-Lanoë, B.; Facel, 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
Micromorphological and mineralogical characters of the Entre Vãbas 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.; Wackernann, 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.; Lorenz, 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.

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; The Soil Erosion Team
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
Londoño, 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.; Höhwieler, N.; Aleeew, 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.
Directional anisotropy in hyperspectral reflectance data: application to soil degradation monitoring.

A0293; EGU2007-A-07013; SSS14-1WE5P-0293
Kuhn, N.; 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
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.; Körödy, 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-0302
Kuhner, M.; Günther, A.; Zabel, K.; Chabrillat, 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
Efficiency of pilot measures to mitigate muddy floods in a catchment of central Belgium

15:45–16:00; EGU2007-A-10246; SSS15-1WE4O-002
Erosion and runoff reduction by conservation tillage: scale effects

16:00–16:15; EGU2007-A-01992; SSS15-1WE4O-003
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
Changes in the territorial planning systems at river basin scale

16:30–16:45; EGU2007-A-05731; SSS15-1WE4O-005
Discussion of the concept of water ‘scarcity’ – comparative study of different management strategies

17:00 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 Duchaufour Medal Lecture) – Posters

Convenor: Burauel, P.
Co-Conveners: 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: BURAUEL, P. AND BECH, J.

A0322; EGU2007-A-00347; SSS19-1WEP5-0322
Fernández, J.D.; Burauel, P.; Schnitzler, F.; Romero, E.
Distribution and bioavailability of diuron residues in different soil size fractions of two previously organically managed soils

A0323; EGU2007-A-09763; SSS19-1WEP5-0323
Andreu, 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; SSS19-1WEP5-0324
Modler, J.; Jablonowski, N. D.; Burauel, P.
Bioaccessibility of naturally aged 14C-atrazine residues in different soil size fractions

A0325; EGU2007-A-00370; SSS19-1WEP5-0325
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; SSS19-1WEP5-0326
El-Aswad, A
Effect of organic amendments on aldicarb sorption-desorption and soil-bound residue

A0327; EGU2007-A-09264; SSS19-1WEP5-0327
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; SSS19-1WEP5-0328
Matera, V.; Grisel, N.; Le Bayon, R.C.; Gobat, J.M.
Arsenic transfer in plants from naturally enriched soil

A0329; EGU2007-A-00462; SSS19-1WEP5-0329
Mavlyanov, Gani
Agricultural pollution of underground waters

A0330; EGU2007-A-00462; SSS19-1WEP5-0330
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; SSS19-1WEP5-0331
Rennert, T.; Kaufhold, S.; Mansfeldt, T.
Identification of Fe-CN containing compounds in contaminated soil and wastes by FTIR spectroscopy

A0332; EGU2007-A-03142; SSS19-1WEP5-0332
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; SSS19-1WEP5-0333
Kónya, J.; Nagy, N.M.
Metal ion decontamination of soils by complex forming agents

Solar-Terrestrial Sciences

ST3 Open session on the Sun and heliosphere – Posters

Convenor: Forsyth, R.
Co-Conveners: Bothmer, V.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 13:30–15:00
Poster Area Hall X/Y
Chairperson: FORSYTH, R.

XY0790; EGU2007-A-00797; ST3-1WEP3-0790
Rabiu, A. B.; Amory-Mazaudier, C.; IRGGEA, the Signatures and Potentials of International Heliophysical Year in Africa

XY0791; EGU2007-A-07727; ST3-1WEP3-0791
Wintoft, P.; Lundstedt, H.; Wik, M.
Analysis of the dynamic memory of the sunspot number time series.

XY0792; EGU2007-A-06911; ST3-1WEP3-0792
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; ST3-1WEP3-0793
Tumalski, T.
The coronal heating process

XY0794; EGU2007-A-05737; ST3-1WEP3-0794
Minkova, N.R.
Statistical modelling of solar plasma flow by considering finite instrumental resolution scale

XY0795; EGU2007-A-03001; ST3-1WEP3-0795
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-02722; ST3-1WE3P-0797
Prokudina, V.; Kuričik, V.
The observation of the hectometer radio bursts from the solar flares with Gamma-ray

XY0798; EGU2007-A-10227; ST3-1WE3P-0798
laeva, N.S.
ray modulation

XY0799; EGU2007-A-11069; ST3-1WE3P-0799
LI, X.; Lu, Q.; Li, B.
Ion pick-up by finite amplitude Alfven waves

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
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
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.; Niko

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
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/HILO/ACE and 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
Gill, 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
Grimaldi, 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
Meeting Programme

XY0826; EGU2007-A-10496; ST3-1WE3P-0826
Flueckiger, E.O.; Buitikofer, 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
Siluszky, 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.; Sdjohnov, 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
Convenor: Ballai, I.
Co-Conveners(s): Gizon, L.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 15:30–17:00
Poster Area Hulls 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

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
Convenor: Marsden, R.
Co-Conveners(s): Bothmer, V., Harrison, R.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 10:30–12:00
Poster Area Hulls 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.

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
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
Mostl, 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
Convenor: Amory-Mazaudier Christine, C.
Co-Conveners(s): Schröder, W., Gregori, G.
Lecture Room 8
Chairperson: CORNELISSEN, G.

XY0847; EGU2007-A-02578; ST6-1WE4O-001
Richardson, J.D.
15:30–16:00; EGU2007-A-02578; ST6-1WE4O-001
Egeland, A.
Kristian Birkeland, the first space scientist (solicited)

XY0848; EGU2007-A-00977; ST6-1WE4O-002
16:00–16:30; EGU2007-A-00977; ST6-1WE4O-002
Gregori, G. P.
Climate and the atmospheric electrical circuit (solicited)

XY0849; EGU2007-A-02850; ST5-1WE2P-0846
16:30–16:45; EGU2007-A-02850; ST5-1WE2P-0846
Lefebvre, S.; ROZELOT, J.P.; Damiani, C.
Variability of the solar shape (solicited)
16:45–17:00; EGU2007-A-00076; ST6-1WE4O-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; ST6-1WE5O-001
Mursula, K.
(What does Long-term Geomagnetic Activity tell us about the Sun?)

17:45–18:00; EGU2007-A-02584; ST6-1WE5O-002
Hanslmeir, A.
The time varying Sun (solicited)

18:00–18:15; EGU2007-A-00874; ST6-1WE5O-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; ST6-1WE5O-004
Otsuka, K.; Cornéliussenn, G; Halberg, F
Chronomics of tree rings gauge climate change

18:30–18:45; EGU2007-A-10302; ST6-1WE5O-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; ST6-1WE5O-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; ST7-1WE1O-001
Carlson, C. W.
Properties of the aurora as seen from FAST (Hannes Alfvén Medal Lecture) (solicited)

9:15–9:30; EGU2007-A-00812; ST7-1WE1O-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; ST7-1WE1O-003
Lobzin, V.; Krasnoselskikh, V. V.; Bosqued, J.-M.; Pincon, J.-L.; Schwartz, S. J.; Dunlop, M.
Nonstationarity and Reformation of High-Mach Number Quasi-perpendicular Shocks: Cluster Observations

9:45–10:00; EGU2007-A-03223; ST7-1WE1O-004
Kudela, K.
Energetic ions in the magnetosheath observed on Interball-1

10:00 COFFEE BREAK

Chairperson: N.N.

13:30–13:45; EGU2007-A-10175; ST7-1WE3O-001
Vaivads, A.; Santolik, O.; Stenberg, G.; Andrée, M.; Owen, C. J.; Canu, P.; Dunlop, M.
The source of whistler emissions at the dayside magnetopause

13:45–14:00; EGU2007-A-01223; ST7-1WE3O-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; ST7-1WE3O-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; ST7-1WE3O-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; ST7-1WE3O-005
Magnetic barrier generation between moving plasmas: evidence for Alfvénic collapse

14:45–15:00; EGU2007-A-07520; ST7-1WE3O-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

17:30–17:45; EGU2007-A-06056; ST7-1WE5O-001
Frequency-time analysis on geomagnetic ULF disturbances during magnetospheric storm in Mar. 1989

17:45–18:00; EGU2007-A-06743; ST7-1WE5O-002
Turbulence in the Earth’s plasma sheet associated with reconnection and bursty bulk flows

18:00–18:15; EGU2007-A-06984; ST7-1WE5O-003
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, JL; Onsager, T; Singer, H
GOES-11 Pitch Angle Distribution Analysis of Energetic Magnetospheric Electron During Storm Recovery Phase

18:30–18:45; EGU2007-A-10994; ST7-1WE5O-005
Zong, Q.G.; Fu, S.Y.; Korth, A.; Daly, P.
BBF 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: Laštovièka, J.
Co-Convener(s): Bourdillon, A., Zolesi, B.
Lecture Room 8
Chairperson: LASTOVICKA, J.

8:30–9:00; EGU2007-A-02683; ST14-1WE2O-001
Cander, L.
Ionospheric studies and SWWT (solicited)

9:00–9:30; EGU2007-A-04656; ST14-1WE2O-002
Modelling of Ionospheric Scintillations Observed at Low Latitude (solicited)

10:00 COFFEE BREAK

Chairperson: CANDER, L.

10:30–10:45; EGU2007-A-01858; ST14-1WE3O-001
Mitic, M.; Cander, Lj.
Ionospheric variability over Grocka during low activity conditions

10:45–11:00; EGU2007-A-01915; ST14-1WE3O-002
Reinisch, B.; Nsumei, P.; Song, P.; Huang, X.
Estimation of IoF2 variations using RTW sounding data

11:00–11:15; EGU2007-A-02342; ST14-1WE3O-003
Ilyushin, Ya.A.
Fluctuations of the GPS signals on the tangential paths in the low terrestrial atmosphere: influence of the small-scale structure.

11:15–12:00; EGU2007-A-07513; ST14-1WE3O-004
Materassi, M.; Alfonsi, L.; Romano, V.; Bourdillon, A.; De Franceschi, G.; Le Huy, M.
Intense scintillation events observed at polar and equatorial latitudes (solicited)

12:00 LUNCH BREAK

Chairperson: ALFONSI, L.

13:30–13:45; EGU2007-A-00550; ST14-1WE3O-005
Mitic, M.; Cander, Lj.
Ionospheric variability over Grocka during low activity conditions

13:45–14:00; EGU2007-A-00673; ST14-1WE3O-006
Moshkova, V.; Kurkin, V.
Estimation of IoF2 variations using RTW sounding data

14:00–14:15; EGU2007-A-02724; ST14-1WE3O-007
Buresova, D.; Lastovicka, J.
Pre-storm electron density enhancement at middle latitudes
Mon 14:15–14:30; EGU2007-A-02650; ST14-1WE3O-004
Scotto, C.; Pezzopane, M.
Multiple reflections from the F2 layer as a cause of autorecal-
ing 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 scatter-
ing 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

Conveners: 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 rhytmities, ODP 166 (solicited)

A0341; EGU2007-A-10918; SSP2-1WE5P-0341
Schwarz, J.; Rendle-Buehring, R.H.; Steinke, S.; Re.
ijmer, J.J.G
Carbonate Nodules: Indicators for Early Diagenetic Alter-
ation 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.; Gharssali, 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
Badenas, B.; Garcia-Ramos, J.C.; Aurell, M.; Piñuela, L.;
Gonzalez, 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.; Fan-
toni, R.
Constrains 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, North-
ern Calcareous Alps

SSP6 Submarine Mass Movements and Their Consequ-
ences (co-listed in NH)

Conveners: Urgelles, R.
Co-Convener(s): Locat, J., Miernert, J., Solheim, A., Kraestel, 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 Megaslide 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-Martinez, 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
Bellona, A.; Budillon, F.; Trincardi, F.; Iorio, M.; Verdic-
chio, G.; Asioli, A.; Marsella, E.
Lacosa submarine slide, Eastern Tyrrhenian margin: charac-
terization 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-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

14:45–15:00; EGU2007-A-02511; SSP2-1WE5P-0348
Grygar, T.; Lojka, R.; Blahova, A.; Drabkova, J.
Was the lifetime of a tropical lake in Bohemian basins (cen-
tral Europe) during Stephanian B (Upper Carboniferous) driven by Milankovitch-like orbital forcing?

15:00 END OF SESSION

1:15–14:30; EGU2007-A-05333; SSP2-1WE5P-0349
Amirov, E
Depositional cycles in upper absheron substage succession in the Western flank of the South Caspian depression

447
14:30–14:45; EGU2007-A-00457; SSP6-1WE3O-005
Urgeles, R.; Locat, J.; Fleemings, 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 Hull A
Chairperson: N.N.

A0350; EGU2007-A-02668; SSP6-1WE5P-0350
Vanneste, M.; Habitz, C.B.; De Blasio, F.V.; Glumsdal, 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 Megaslide (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.
Competition of sediment properties from two geological settings

A0353; EGU2007-A-10779; SSP6-1WE5P-0353
Hafidisassou, H.; Sejrup, H.P.; Brendryen, J.; Grasmo, 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.; Verdiichio, 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.; Androsow, 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.; Cumerlenghi, 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.
Chairroom 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.; Drohne, K.; Simunic, A.; Turnsek, D.; Mora, 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.; Sachsehofer, 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 basin system

16:15–16:30; EGU2007-A-09822; SSP7-1WE4O-004
Mikes, T.; Baldi-Bekte, 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.
Novelties in macrofloristic correlation between the Paratethys and Bohemian Massif during the Miocene.

16:45–17:00; EGU2007-A-03932; SSP7-1WE4O-006
Dolakova, 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-Leever, K.
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
Paratethys basins and their dynamics at its western end in Slovenia

18:30–18:45; EGU2007-A-07793; SSP7-1WE5O-005
Vasilev, I.; Reichart, G.-J.; Davies, G.; Stoica, M.; Krijgsman, W.
Trace elements and strontium isotopic composition of late Mio-Pliocene molluscs and ostracods from the Carpathians foredeep of Romania

448
**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-Conveners: 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, K.A.T; Matthews, A.J; 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.; Donnadieu, Y.; Pucéat, E.; Paillard, D.
Effect of changes in δ18O 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.; Taiffereau, P.
Analytical and numerical d18O 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.; Duijnstee, I.A.P.; van der Zwaan, G.J.
Paleoenvironmental data from benthic foraminifera: proxies and problems – the case of the Messinian of the Mediterranean

10:00 COFFEE BREAK

Chairperson: N.N.

Meijer, P.Th.; Alhammad, 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.; Vescogi, 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-Conveners: 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.; Pouyaud, 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/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/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/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/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

Conveners: Pratt, B.
Display Time: Wednesday, 08:00–19:30
Author in Attendance: Wednesday, 10:30–12:00

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.; Saustrup, 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.; Bădenas, 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
Bădenas, 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 Evloution 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

Conveners: Mart, Y.
Display Time: Wednesday, 08:00–19:30
Author in Attendance: Wednesday, 10:30–12:00

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-Blesner, 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

Conveners: Buiters, S.
Display Time: Wednesday, 08:00–19:30
Author 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.; Valette, 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.; Mailiot, 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.; Krabbenhoff, K.; Mailiot, 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.; Calleau, B.; Hoth, S.; Kukowski, N.; Loehmann, 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.; Marti, J.; Folch, A.
Reproducing collapse calderas processes: Analogue vs. numerical models

XY0857; EGU2007-A-00906; TS1.1-1WE3P-0857
Schreurs, G.; Buijer, 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.; Defossez, 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

XY0861; EGU2007-A-08252; TS1.2-1WE3P-0861
Gómez-Rivas, E.; Bons, P.D.; Griañera, A.; Carreras, J.; Drucquet, E.; Evans, L.
Strain and vorticity analysis using minor faults and associated drag folds

XY0862; EGU2007-A-06611; TS1.2-1WE3P-0862
Grasemann, B.; Wiesmayer, G.; Exner, U.
Three-dimensional slip distribution and fault-drain: 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.; Samiez, 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 Bucco, 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.; MASIIRONI, 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
Jettesuen, 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.; Craverro, 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.; Griañera, A.
Analogue modelling of ductile-to-brittle transition in visco-plastic anisotropic materials: influence of strength on shear fracture localization and network geometry

XY0871; EGU2007-A-10839; TS1.2-1WE3P-0871
Wellmann, J.F.; Charron, 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 boudins

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, C.; Marinin, A.
Tectonic palaeostress fields and deformation state of nappe: comparison of theoretical models with natural data for elucidation of the formation mechanisms, example of Vorontsovovskiy 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.; Lacopini, D.; Montomoli, C.; Edwards, M.A.; Grasmann, 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.W.
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
Stiwe, K.
Metamorphic field gradients - the best petrological evidence for overpressure we can get?

XY0885; EGU2007-A-10238; TS1.2-1WE4P-0885
Dabrowski, M.; Podlachikov, 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-Conveners(s): Corti, G., Meyer, R., Mauduit, T.
Lecture Room 3
Chairperson: VAN WIJK, J., CORTI, G.
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.; Mün-tener, 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
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.
Migmatism 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-Conveners(s): Avril, B.
Lecture Room 3
Chairperson: N.N.
8:30–8:45; EGU2007-A-09462; 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)
Magmatism and extension at LIP-related volcanic rifts and volcanic margins (solicited)
13:45–14:00; EGU2007-A-02876; TS5.1-1WE3O-002
Manatschal, G.; Lavier, L.; Péron-Pinvidic, G.; Mün-tener, 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
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.
Migmatism 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
10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2007-A-07624; TS5.2/SSP24-1WE2O-005
Breivik, A. J.; Faleide, J. I.; Mjelde, R.; Tsikalas, F.
Timing of Continental breakup at the mid-Norwegian margin, Euromargins 2003 OBS Experiment

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 study

11:15–11:30; EGU2007-A-09320; TS5.2/SSP24-1WE2O-004
Mastalerz, V.; de Lange, G. J.; Dühlmann, 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-002
Externally driven subsurface fluid pumping and consequences.

11:45–12:00; EGU2007-A-10122; TS5.2/SSP24-1WE2O-006
Fluid flow associated ecosystems of the Nile deep-sea fan, Eastern Mediterranean (MEDIFLUX)

12:00 END OF SESSION

TS7.1 Orogen-like coupling in intracontinental orogenic setting

Convener: Neubauer, F.
Co-Conveners: Liu, Y.
Lecture Room 5 (I)
Chairperson: N.N.

Rohl, 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.; Artyskhov, 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.; Geerdts, 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-Conveners: 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.; Scottney, 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 Paleozone 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 Reearch) project for testing models of Taiwan orogeny (solicited)

17:00 COFFEE BREAK
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 Paleo-proterozoic 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)

08:30–08:45; EGU2007-A-03336; TS7.5-1WE1O-001
Tilmann, FJ; Grevemeyer, 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

08:45–09:00; EGU2007-A-01492; TS7.5-1WE1O-002
Bialas, J; Greinert, J; Barnes, P; Jegen, M; Klaucke, I; Krabbenhöft, A; Netzeband, G L; Pecker, 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

09:00–09:15; EGU2007-A-05342; TS7.5-1WE1O-003
Behrmann, J.H.; Stipp, M.
Subducted crust and sediments – a source for intermediate depth earthquakes?

09:15–09:30; 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

09:30–09:45; 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

09:45–10:00; EGU2007-A-10763; TS7.5-1WE1O-006
Imaging the arc source region in Central America: The TUCAN broadband seismic experiment

09:45–10:15; 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, Te, 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.; Nippress, 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

08:30–08:45; 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.; Facenda, 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 modelling

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

10:45–11:00; 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
TS10.2 Tectonic evolution of Tethys in the Eastern Mediterranean Region – Posters

Convenor: KOLLER, F.
Co-Conveners: 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.; Karši, O.; Tarkan, 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.; Tarkan, M.; Sadiklar, M.B.
Cr-PGE mineralizations and Os-isotope signatures of chromitites in the Kahraman-Marash ophiolitic complex, Southeastern Turkey

XY0889; EGU2007-A-00670; TS10.2-1WE3P-0889
Ustaömer, P.A.; Ustaömer, T.; Collins, A.S.; Reischpitsch, 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 in the Menderes Massif, SW Turkey. (solicited)

XY0894; EGU2007-A-04760; TS10.2-1WE3P-0894

XY0895; EGU2007-A-04814; TS10.2-1WE3P-0895
Kuscu, C.; Gemalioğlu-Kuscu, G.; Tosdal, R.M.; Ullrich, T.; 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 Southwest Anatolian Orogen, Turkey (solicited)

XY0899; EGU2007-A-06075; TS10.2-1WE3P-0899
Genc, S.C.; Tüysüz, 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 Pontyde Magmatic arc, NE Turkey

XY0901; EGU2007-A-03416; TS10.2-1WE3P-0901
Inwood, J.; Anderson, M.; Morris, A.; Robertson, A.; Unluenguc, 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 Srednogorie 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, Srednogorie 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
Zacharias, P.; Reischmann, T.; Kostopoulos, D.
The Thessaloniki Ophiolite. A Middle Jurassic supra-subduction zone ophiolite between the Varadar Zone and the Serbomacedonian Massif. N. Greece

XY0909; EGU2007-A-01913; TS10.2-1WE4P-0909
Kaplanis, A.; Xyropi, P.; Koukouvelas, I.
Development and invension of a Neo-Tethyan strand in the central Greece

XY0910; EGU2007-A-06848; TS10.2-1WE4P-0910
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
Tectonic evolution of the suture zone between Dinarides and Carpatho-Balkan: Field evidence from the Kopanik region, southern Serbia

XY0913; EGU2007-A-03659; TS10.2-1WE4P-0913
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.; Hocke, J.; Onuki, 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 or a Subduction zone of Tethys?

TS10.3 Middle East Basins Evolution – Posters
Convener: Barrier, E.
Co-Conveners(s): Gaetani, M., Stephenson, R.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 15:30–17:00
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.; Rimmeme, G.; Bousquet, R.; Okay, A.
Metamorphis in the Bitlis Massif Its geodynamic consequences

XY0924; EGU2007-A-09182; TS10.3-1WE3P-0924
Galoyan, G; Rolland, Y; Soisson, 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

XY0925; EGU2007-A-09755; TS10.3-1WE4P-0925
Homberg, C.; Collin, P. Y.; Ferry, S.; Muller, 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
Palaeomagnetism of Aptian-Albian sedimentary formation in Lebanon and some new ideas that need to be tested

XY0929; EGU2007-A-01269; TS10.3-1WE4P-0929
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.
Reactivation of the Levant passive margin during the late Tertiary and formation of the Jaffa Basin offshore central Israel

XY0931; EGU2007-A-05056; 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.; Strecke, M. R.; Uba, C. E.; Friedrich, A.; Tabatabaee, S.
Cyclicity 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.; Pollati, I.; Mossavari, F.
The Cimmerian evolution of the Nakhlah-Andarak 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.; Pollati, I.; Levera, M.; Salamati, R.; Mossavari, F.
The Triassic stratigraphic succession of Nakhlah (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 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-Conveners: Agard, P., Tirel, 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
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.; Vousoughi, 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
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
Khaili, 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
Forte, 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-Gimashli 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 Pancardi (modern look)
Koval, A.; Chepil, P.; Demianchuk, O.; Dovzhok, T.; Yankevych, U.
New views on the geological structures of the Carpathian region

Katz, Yu.; Eppelbaum, L.; Ben-Avraham, Z.
Tectonic setting in Israel derived from examination of facial
distribution and magnetic-thermal data analysis

Gonenç, T.; Pamukçu, O.; Akgun, M.; Ozalyin, 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.

Late Cenozoic stress states along the North Anatolian Fault,
Bolu basin, NW Anatolia

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

Gencalioglu-Kuscu, G.; Kuscu, I.
Nature of post-collisional phreatomagmatic volcanism in the Cappadocian Volcanic Province: Cora Maar, central
Anatolia, Turkey

The November 15, 2000 Lake Van Earthquake (Mw=5.6) in Eastern Turkey: Seismotectonic Implications for Arabian
Eurasian Collision Zone

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

Dilek, Y.
Collision tectonics and crustal evolution of the eastern
Mediterranean region since the late Mesozoic

Neogene foreland basin evolution in SE Anatolia and the evolution of the eastern Tethys gateway through Turkey

Wüthrich, E.; Seward, D.; Dimov, D.; Burg, J.-P.
Preliminary thermochronological data on the tectonic evolution
of the Bulgarian Rhodope

Early Pliocene onset of left-lateral strike-slip tectonics,
rotations and uplift in the southern Aegean region related to
STEP faulting

van Hinsbergen, D.J.J.; Boekhout, F.
Neogene brittle detachment faulting on Kos during formation
of the Cycladic-Menderes metamorphic core complex
(Greece/Turkey)

Ediger, V.; Evans, G.; Toker, M.
Pliocene-Pleistocene tectonics in the Dodecanese (W-Kos,
Greece)

Mueller, M.; Grasemann, B.
Neumayer, F.
Geodynamic control of shear reversal, exhumation of metamorphic core complexes and ore mineralization in the Aegean arc

Tirel, C.; Wortel, M.J.R.; Brun, J.-P.; Govers, R.; Burov, E.
Back-arc extension in the Aegean Sea

Voit, K.; Grasemann, B.; Edwards, M.; Petrakakis, K.; Draganiits, E.; Müller, M.
A crustal scale viscous-frictional shear zone (Kea, Western
Cyclades, Greece)

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

Edwards, M. A.; Grasemann, B.; Schneider, D.A.; ACCEL Team, A.
Mediterranean snapshots of accelerated retreat and geodynamic instability in continental orogenesis

Iglesides, C.; Grasemann, B.; Edwards, M.A.; Petrakakis, K.; Schneider, D.A.; Müller, M.; Voit, K.; Draganiits, E.
Multiphase shear zones with south-directed low-angle normal faulting on the island of Kea, W. Aegean

Neogene foreland basin evolution in SE Anatolia and the evolution of the eastern Tethys gateway through Turkey

Katz, Yu.; Eppelbaum, L.; Ben-Avraham, Z.
Tectonic setting in Israel derived from examination of facial
distribution and magnetic-thermal data analysis

Gonenç, T.; Pamukçu, O.; Akgun, M.; Ozalyin, S.; Yurdakul, A.
Evaluation of Gravity and Magnetic Data of Eastern Mediterranean

Gencalioglu-Kuscu, G.; Kuscu, I.
Nature of post-collisional phreatomagmatic volcanism in the Cappadocian Volcanic Province: Cora Maar, central
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delta sedimentation of the Cilicia-Adana Basin, the NE-
Mediterranean

Dilek, Y.
Collision tectonics and crustal evolution of the eastern
Mediterranean region since the late Mesozoic

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.

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XY0972; EGU2007-A-03889; TS10.6-1WE3P-0972
Cunningham, D.; Grebby, 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.; Sanso, P.; Selleri, 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, I; Kontny, B; Stercz, M; Melis, N; Cacon, S; Papanikolau, 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
Stepančíkova, 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.
### MEETING PROGRAMME

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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-Conveners: Green, A., Thybo, H., Friedrich, A.
Lecture Room 25
Chairperson: GREEN, A AND LUDDEN, J.

8:30–8:45; EGU2007-A-08721; US6-1TH1O-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; US6-1TH1O-002
Bunge, H.-P.; Steinle-Neumann, G.; Schuberth, B.; Piazzi, A.
Global models of mantle flow and density from geodynamic considerations (solicited)

9:15–9:30; EGU2007-A-03673; US6-1TH1O-003
Artemieva, I M
Dynamic Topography of the East European Craton (solicited)

10:30–11:00; EGU2007-A-10081; US6-1TH1O-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)

13:45–14:00; EGU2007-A-11454; US6-1TH3O-002
Ledru, P.; Guilien, 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; US6-1TH3O-003
Friedrich, A.; King, G.; Armijo, R.; Bowman, D.; Gaudemer, Y.
Surface expression of lithospheric deformation on timescales 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; US6-1TH3O-004
Faccenna, C.; Funiciello, 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; US6-1TH3O-005
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.

Horváth, F.; Bada, G.; Sztanó, O.; Szafián, P.; Timár, G.
Topography of the Pannonian basin: a key to understand basin evolution (solicited)

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; US6-1TH4O-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; US6-1TH4O-004
Gallart, J.; Topo-Iberia Working Group
Integrated Geosciences in the Iberian plate domains: The Topo-Iberia project (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-Conveners: Ramamurthy, M., Jackson, M.
Lecture Room 29
Chairperson: N.N.

8:30–8:45; EGU2007-A-05826; US10-1TH1O-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; US10-1TH1O-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; US10-1TH1O-003
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; US10-1TH1O-005
Baru, C.
Standardization and Interoperability across the Geosciences: Insights from GEON (solicited)

9:45–10:00; EGU2007-A-04842; US10-1TH1O-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; US10-1TH2O-001
Marchetti, P.G.
Advancing Earth Observations Missions and Geospatial Interoperability within the Heterogeneous Missions Accessibility Project (solicited)

11:00–11:30; EGU2007-A-04674; US10-1TH1O-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)

11:30–12:00; EGU2007-A-04501; US10-1TH2O-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

Chairperson: SCHUEPBACH, E.

15:30–15:45; EGU2007-A-01610; ES3-1TH4O-001
Hasager, C.B.; Andersen, O.B.; Christiansen, M.B.; Højerslev, N.K.; Höyer, 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; ES3-1TH3O-001
Halenka, T.
On the educational activities of EMS

16:00–16:30; EGU2007-A-05406; ES3-1TH3O-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; ES3-1TH40-004
Uherek, E.
Web-based and Science driven Earth System Education

16:45–17:15; EGU2007-A-05544; ES3-1TH40-005
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-Conveners: 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
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
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-Conveners: 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
Halloween, 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
Fargese, 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.; Raytisfeld, A.; Firsten, A.; David, N.; Goldstein, 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
Berenguier, 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.

Brynjolfsson, S.; Olafsson, 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, M.T.; 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
Marsham, 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

Wedi, N.P.; Smolarkiewicz, P.K.
Direct numerical simulation of the Plumb-McEwan laboratory analogue of the QBO

16:00–16:15; EGU2007-A-05269; AS1.05-1TH4O-001
Klein, R.
An unified Approach to Meteorological Modelling based on Multiple-Scales Asymptotics (solicited)

16:15–16:30; EGU2007-A-01313; AS1.05-1TH4O-005
Achatz, U.
Modal and nonmodal perturbations of monochromatic high-frequency gravity waves: Primary nonlinear dynamics

16:30–17:00; EGU2007-A-06988; AS1.05-1TH4O-006
Rieutord, M.
On Madagascar, Mozambique and Agulhas Eddies

17:00 END OF SESSION
AS1.09 The tropical tropopause region – Posters

Convener: Schiller, C.
Co-Conveners: Schläger, H., Pommereau, J., Vaughan, G.
Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 08:30–10:00
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Chairperson: POMMEREAU, J.-P.

XY0016; EGU2007-A-03027; AS1.05-1TH3P-0016
Lynch, P.; Clark, M.
Parametric sensitivity of geostrophic turbulence

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
The budget of bromine and iodine and the aerosol extinction in the tropical UTLS as derived from spectroscopic balloon observations

XY0019; EGU2007-A-10792; AS1.09-1TH1P-0019
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.; Pfeilsticker, K.
The budget of bromine and iodine and the aerosol extinction in the tropical UTLS as derived from spectroscopic balloon observations

XY0021; EGU2007-A-08706; AS1.09-1TH1P-0021
Mébarik, Y.; Catoire, V.; Marecal, V.; Huret, N.; Freitas, S.R.; Longo, K.; Pirre, M.
Unexpected CO, NOx 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 stratosphere ?

XY0022; EGU2007-A-11081; AS1.09-1TH1P-0022
Mitev, V.; Matthey, R.; Martucci, G.; Yushkov, V.; Sitnikov, N.; Lukyanov, A.; Lapshova, E.; Ulansky, 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.; Ulansky, 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.; Ulansky, 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.; Ulansky, 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.; Orlando, 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 UTLS during the TROCINOX 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 ACTIVE 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 MIPAS reduced resolution (RR) mode in support of SCOUT-O3

XY0035; EGU2007-A-00760; AS1.09-1TH1P-0035
Steinwagner, J.; Milz, M.; von Clarmann, T.; Höpner, 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 HI-BISCUS 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
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)
Convenor: Lübken, F.
Lecture Room 12 (E2)
Chairperson: PREUSSE, P.

8:30–8:45; EGU2007-A-09323; AS1.12/ST15-1TH1O-001
Mesosphere and Lower Thermosphere (MLT) Climatology and Variabilities

8:45–9:00; EGU2007-A-04618; AS1.12/ST15-1TH1O-002
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.; Herbot, F.
Interhemispheric differences of mesospheric ice layers and implications for coupling mechanisms

A Case Study of a Sudden Sodium Layer Observed by the ALOMAR Weber Na Lidar

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.

Gersing, 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.; Wickert, 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)

Zhang, S. P.; McLandress, C.; Shepherd, G. G.
Monthly observations of mean winds and tides in the lower thermosphere for 1992 and 1993 by WINDI on UARS
11:30–11:45; EGU2007-A-02762; AS1.12/ST15-1TH2O-005
Grieger, N.; Achatz, U.; Schmitz, G.; Schmidt, H.; McLeod, 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.
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.; Kyzuyrov, 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-000719; AS1.12/ST15-1TH4P-0051
Hoffmann, P.; Jacobi, Ch.; Stober, G.; Jakowski, N.; Borries, C.; Pogoretsve, 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
Zecca, M.
Characteristics of polar mesosphere summer echoes at 78N

XY0053; EGU2007-A-08855; 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.; Luebben, 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

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 Prashant, 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; Narayana Rao, 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-000707; AS1.12/ST15-1TH4P-0064
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
Strato-mesospheric O3 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 um and from the singlet oxygen airglow

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
Ramachandran, A.; Gopal Krishna, S.; Prasad, DSVVD; Raja Rama Rao, P.V.S.

467
Spanggeli, T.; Cubasch, U.; Langematz, U.; Schimanke, S.
Holocene simulations to investigate the role of low frequent solar irradiance changes and stratospheric processes for climate

Nissen, K.; Matthes, K.; Langematz, U.; Mayer, B.
FUBRad - a high resolution short wave radiation scheme for solar cycle studies

ASL14 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

Hormann, V.; Brandt, P.; Fischer, J.; Bourlès, B.
Simulated and observed interannual EUC variability

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 EGEE/AMMA cruise

Vintzileos, A.; Thiw, 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

Cui, X.; Morse, A. P.
West Africa weather forecasting in AMMA-UK

Rodriguez-Fonseca, B.; Polo, I.; Losada, T.; García-Serrano, I.
Summer to late winter atmospheric response to the Atlantic Equatorial mode

XY0079: EGU2007-A-07567; AS1.14-1TH3P-0079
Dell’Aquila, A.; Ruti, PM; Cavaliere, O.
The summer northern african circulation: a global perspective

Belli, 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
Precipitable water and water vapour transport over West Africa from data and ECMWF analysis during the AMMA project
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
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.; Mougin, 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 Banizoubou (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.; Chaboureau, 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.; Lioussse, 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-09799; AS1.14-1TH3P-0115
LAVAYSSÉ, 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
Lioussse, 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.; Chaboureau, 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, P.E.
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.; Peyréllé, P.; Lafore, J.P.; Redelssperger, J.L.; Sauvaud, 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
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.
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
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
Seasonal Variations of Nonmethane Hydrocarbons at Mace Head, Ireland

14:45–15:00; EGU2007-A-01380; AS3.04-1TH3O-005
Stohl, A.
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.
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.; Greally, 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.; Jobra, 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
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.; Dzhola, 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.; Guerova, 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.; Béron, 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.; Moisnat, 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 MOZAIK 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.; Rollebeck, R.; Spichtinger, N.; Brothers, L.; Thiemens, M.
Sahara Dust, Biomass Burning, Volcanoes: Pathways of nutrient 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-Conveners(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. Kurth, J.; Dethloff, K.
3D Tracer advection in ECHO-GiSP GCM

XY0128; EGU2007-A-04287; AS3.05-1TH3P-0128
Guillaume, B.; Lioussé, C.; Rosset, R.; Mallet, M.; Poisson, N.
Global modelling of aerosol transport and optical properties with ORISAM-TM4 model in sectional framework including 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 Aerosol measurements and simulations with the Polyphemus system over Europe

XY0131; EGU2007-A-08348; AS3.05-1TH3P-0131
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 applications

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.; Murgui, 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.; Schrem, 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
Factors controlling pollutant plume processing in the lower troposphere

XY0138; EGU2007-A-03178; 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 Relation to Other Years

471
XY0139; EGU2007-A-08296; AS3.05-1TH4P-0139
Braak, R.; Torres, O.; Velthieman, B.; Veevkind, 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.; Matthijs, I.; Annsmann, A.; Wandinger, U.; Richter, 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, A.; 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.; Bonafe’, U.; Marinoni, A.; Roccato, F.; Vuillemoz, 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
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. Krivacev (Slovenia). A contribution to the GAW-DACH co-operation.

XY0145; EGU2007-A-01582; AS3.05-1TH4P-0145
Retalis, A.; Michaeelides, 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.; Delaili, J. J.; Monteleone, F.; Pace, G.; Placentino, 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.; Kaskoautis, D.G.; Kambezidis, H.D.; Nastos, P.; Badarath, 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.; Chevallier, A.; Delmas, R.; Delbarre, H.; Leroy, C.; Colette, A.; Campistron, B.
Analysis of ozone variability during the campaign PIC2005

XY0138; EGU2007-A-03728; AS3.05-1TH4P-0138
Gloaguen, D.; Lelieveld, J.; Sanderson, R.; Vollmer, P.; Wagner, T.; Andreas, S.
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. Krivacev (Slovenia). A contribution to the GAW-DACH co-operation.

AS3.08 Reactive Halogen Compounds in the Lower and the Free Troposphere

Convener: Sander, R.
Co-Conveners: von Glasow, R.
Lecture Room 1 (G)
Chairperson: ROLF SANDER

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.; McConnel, J. C.; The GEM-AQ Arctic Chemistry Science ‘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.; Raofe, 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
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 coastal experiment

15:45–16:00; EGU2007-A-10252; AS3.08-1TH4O-002
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, IO + NO2, and I + NO3.

16:30–16:45; EGU2007-A-08704; AS3.08-1TH4O-005
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
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
Gershenzon, 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
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.; Poelker, 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-Conveners: 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.

Marley, N.
Co-Convener(s): Capilla, C., Gaffney, J., Kokhanovsky, A., Marley, N.
Display Time: Thursday, 08:00–19:30

As 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

Sander, R.
Co-Convener(s): von Glasow, R.
Display Time: Thursday, 08:00–19:30

As 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

Sander, R.
XY0173; EGU2007-A-02862; AS3.12-1TH2P-0173
Kokhanovsky, A. A.; von Hynningen-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.; Fuentes, 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.
Volatilite organic compounds mixing ratios in Santiago del Chile and along the Andes mountains.

XY0177; EGU2007-A-10091; AS3.12-1TH2P-0177
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-Esteve, R.; Sciare, J.; Cachier, H.; Gaimoz, 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.; Weluri, MN; Ruff, M.; Wacker, L.; Noda, J.; Gustafsson, T.; Pettersson, J.; Pérot, ASH; 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.; Mingüllón (1); MC; Pey (1); J.; Pérez (1); N.; Alastuey (1); A.; Moreno (1); T.; Bernabe (2); RM; Blanco (2); S.; Cárdenas (2).
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
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., Benthen, A.
Display Time: Thursday, 08:00–19:30
Poster Area Foyer BG
Chairperson: BENTHIEN, A.

BG0001; EGU2007-A-00709; BG5.01/CL48-1TH1O-001
Kalugin, I.A.; Daryin, A.V.; Karabanov, E.B.; Smolyanina, L.G.; Vologina, E.G.

Abstract

BG0002; EGU2007-A-02188; BG5.01/CL48-1TH1O-002
Kokhanovsky, A. A.; von Hynningen-Huene, W.
The determination of particulate matter concentration from space
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-Leclere, A.
The conversion into environmental parameters of multi-proxy records from proglacial Lake Silvaplana based on biogenic silica
High resolution climate reconstruction (AD 1580 - 1950)
Grosjean, M.; Sturm, M.; Blass, A.; Eggenberger, U.; Kamenik, C.; Trachsel, M.

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.

BG0006; EGU2007-A-08051; BG5.01/CL48-1TH4P-0006
REYNAUD, S.; Houlbrèque, F.; Martinez, P.; Billy, I.; Allemand, D.; Ferrier-Pagès, C.
The role of 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
Wollenberg, J.E.; Mackensen, A.
The ecology and distribution of benthic foraminifera at the hākon 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.; Duijnstee, 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.; Heurut, 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.; Hallack, P.
Foraminiferal assemblages 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 micropalaeontological 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.; Gilmart, J.-O.
Variations in paleoproductivity in Core MD03-2616 as 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
Holloran, 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.; Mori, G.; Negri, A.
Ecological responses of benthic foraminifera to hypoxic conditions: results of an experimental study using the CTG method
Meeting Programme

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 Pulitic 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
Pinson, S.; Court-Picon, M.; Damblon, F.; Haesaerts, P.; Debenham, N.; DraiI, 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
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.
Mohlnera basilensis (benthic foraminifer) and Bacinella-Lithocodium oncoids: palaeoenvironmental and palaeoecological implications (Late Oxfordian, Swiss Jura)

BG0025: EGU2007-A-01879; BG5.05-1TH2P-0025
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-Mariion 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 kyr.

BG0029: EGU2007-A-05258; BG5.05-1TH2P-0029
Morabito, S.
Late Pleistocene-Holocene paleoclimatic and palaeoenvironmental changes in the Ionian Sea (ODP Hole 964B) as revealed by planktonic foraminifera and calcareous nanofossils 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
Kohno, K.A.; de Stigter, H.C.; Kouwenhoven, T.J.; Ruhl, M.; Knijpers, 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.; Polesi, N.
A high-resolution integrated stratigraphy of the last 9kyr in the eastern Tyrrenian 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.

Richter, T.O.; de Stigter, H.C.; Boer, W.; Jesus, C.C.; van Weering, T.C.E
Dispersal of natural and anthropogenic lead through subma- rine canyons at the Portuguese margin
Typology of seafloor fluid seeps in the Lower Congo Basin

Chairperson: N.N.

COFFEE BREAK

10:00

Catastrophic Seepage and Climate Change (solicited)

8:30–8:45; EGU2007-A-05617; BG6.04-1TH1O-001

Chairperson: N.N.
Co-Convener(s): Foucher, J., Joye, S.
Convener: Boetius, A.

BG6.04 Methane fluxes on continental margins: ecosystems, drivers and controls (co-listed in CL)

Converer: Boetius, A.
Co-Convener(s): Foucher, J., Joye, S.
Lecture Room 19
Chairperson: N.N.


Westbrook, G.K.; Haucke, 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.; Pohlenz, J.; Holland, M.; Schulteiss, 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-0004

Rehder, G.; Garbe Schönbäcker, C.-D.; Linke, P.; Niemann, 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-09980; BG6.04-1TH1O-006

Leifer, I; Clark, J; Boles, J; Leyndyk, B
Catastrophic Seepage and Climate Change (solicited)

10:00 COFFEE BREAK

Chairperson: N.N.
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-Conveners: 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.; Nus-slein, 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.; Martínez, 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.; Grüne, 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
Active methane seepage in the North Sea: Gullfaks and Tommeliten

BG0047; EGU2007-A-10726; BG6.04-1TH4P-0047
leifer, J; 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 of emissions 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.; Scalabrini, 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


BG0059; EGU2007-A-03614; BG6.04-1TH4P-0059

Bourry, C.; Chazallon, B.; Foucher, J.P.; Nouze, 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 Hakon Mosby Mud Volcano.

BG0060; EGU2007-A-07142; BG6.04-1TH4P-0060

Matveeva, T.; Mazurenko, L.; Kuzikova, 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.; Stadnitskaya, 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

Stadnitskaya, 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 reappearance 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


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.; Stadnitskaya, A.; Blinova, V.

The formation history of dolomite chimneys based on the &dgr;48C and &dgr;13C 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 (d18O and d13C) in bivalve shells from methane seeps in the mud diapiric ridges, the Gulf of Cadiz.

BG0069; EGU2007-A-09483; BG6.04-1TH4P-0069

Bouloubassi, I.; Pancoat, 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.; Savarne, 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

Perissartakis, C.; Lykousis, V.; Iakitin, 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-Conveners: 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


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.; Vandenbergh, 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-Conveners: 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.

XY0188; EGU2007-A-02372; CL6-1TH5P-0187

The glaciers in South Tyrol - 1983, 1997 and the future

CL6 Past atmospheric circulation – Posters
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
Laíné, 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.; Barthelemey, 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
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 loess 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

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
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
Chiesi, 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
Lange, C.
Late Holocene climate variability of Northern Patagonia reconstructed by a multi-proxy analysis of Chilean fjord sediments (44.47°S)

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.; Hanotoro, 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.; Reichart, G-J.; Aeschliemann, B.; Günther, D.;
de Lange, G.J.
Ultra high resolution elemental profiling of Mediterranean sediments reveals sub-decadal climate variability over the last two millennia

9:45–10:00; EGU2007-A-11560; CL8-1TH1O-006
Laîné, A.; Kageyama, M; PMIP2 participants, P.
Ventilation of the deep western North Atlantic during recent millennia (solicited)

10:00 END OF SESSION

CL8 Climate and ocean dynamics from high-resolution marine archives (co-listed in OS) – Posters

Convener: Felis, T.
Co-Conveners(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
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
Chiesi, 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
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
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.; Press, 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.; Bracht, T.C.; Reuter, M.
Tarbelliastrea: a new archive for paleoenvironmental research

XY0209; EGU2007-A-11273; CL8-1TH5P-0209
Risk, M.J.; Lapointe, B.E.; Sherwood, O.
Deltad15N 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 d18O 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
Timor Sea surface and subsurface temperature variability on centennial timescales during MIS 2-3

XY0212; EGU2007-A-05476; CL8-1TH5P-0212
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, J.F.
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-Conveners(s): Reichart, G.
Lecture Room 14
Chairperson: N.N.
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.; Vane, D.; Arevalos, A.; Shimizu, N.
Glacial/interglacial variations in the range of the Inter-Tropical Convergence Zone and the resulting changes in paleo-productivity in the Bay of Bengal and Andaman Sea

XY0215; EGU2007-A-07079; CL11-1TH5P-0215
Tajlingii, 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
Bentalib, L.; Martin, C.
Monsoon seasonality inferred from mammal teeth stable isotope records

XY0219; EGU2007-A-10408; CL11-1TH5P-0219
Indoor 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
Vyzilova, N.
Combined impact of EI 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
Ereno, 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

XY0227; EGU2007-A-03939; CL17-1TH3P-0227
Schulz, J.; Olesen, F.
Multi annual cloud analysis from Meteosat data (solicited)

XY0228; EGU2007-A-07091; CL17-1TH3P-0228
Huckle, R.; Olesen, F.
Climate monitoring of cloud properties from MSG: Validation of the CM-SAF fractional cloud coverage product

XY0229; EGU2007-A-04298; 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
Steiner, A.K.; Kirchengast, G.; Schulz, J.
Climate monitoring with CHAMP and FORMOSAT-3/COSMIC radio occultation data

XY0231; EGU2007-A-05295; CL17-1TH3P-0231
Reuter, M.; Borsche, M.; Pirscher, B.; Steiner, A. K.; Wickert, J.; Kirchengast, G.
A comparison of lower stratospheric temperatures from the 2001–2006 CHAMP radio occultation and MSU/AMSU climate records

XY0232; EGU2007-A-08535; CL17-1TH5O-007
Fong, C.-J.; Yen, N.; Chu, V.; Huang, C.-Y.; Chi, S.
Mission results from FORMOSAT-3/COSMIC constellation for global climate monitoring

XY0233; EGU2007-A-06062; CL17-1TH5O-004
Steiner, A.K.; Kirchengast, G.; Borsche, M.; Foelsche, U.
Setting the basis for a high-resolution European fog/low stratus climatology

XY0234; EGU2007-A-10228; CL17-1TH5O-006
Yen, N.; Fong, C.-J.; Chu, V.; Huang, C.-Y.; Chi, S.
Climate monitoring with CHAMP and FORMOSAT-3/COSMIC radio occultation data

XY0235; EGU2007-A-08416; CL17-1TH5O-003
Nanjundiah, R. S.; Govaerts, Y.M.; Theodore, B.
Assessment of global cloud properties (solicited)

XY0236; EGU2007-A-08253; CL17-1TH5O-002
Bendix, J.; Cermak, J.; Steiner, A.K.; Kirchengast, G.
Assessment of global cloud properties (solicited)

XY0237; EGU2007-A-08069; CL11-1TH4O-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

XY0238; EGU2007-A-07350; CL17-1TH5O-002
Stubenrauch, C. J.; GEWEX cloud assessment group
Assessment of global cloud properties (solicited)

XY0239; EGU2007-A-08416; CL17-1TH5O-003
Cermak, J.; Bendix, J.
Setting the basis for a high-resolution European fog/low stratus climatology

XY0240; 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

XY0241; EGU2007-A-08535; CL17-1TH5O-007
Pavlyev, A.G.; Liou, Y.A.; Wickert, J.; Pavlyev, 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-Conveners(s): Bengtsson, L.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 13:30–15:00
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-0227
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.; Walthzer, A.; Stengel, M.; Bennartz, R.; Selbach, N.; Lindau, R.
Prerequisites for Humidity Products with Climate Quality

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)
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.

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.; Körnich, 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; Vizcaíno, 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.; Kiem, 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.

Arritt, R.; THE NARCCAP TEAM
The North American Regional Climate Change Assessment Program (NARCCAP): Identifying sources of uncertainty in nested regional climate simulations
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.; Göttel, 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.; Schar, C.
Land-atmosphere coupling and European climate change

14:45–15:00; EGU2007-A-02574; CL18-1TH3O-006
Paeth, H.; Capo-Chichì, 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-Conveners(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
Poulet, 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
Evaluating Global Warming Potentials (GWP) - 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-anual variation in water resources and water use

XY0252; EGU2007-A-03815; CL18-1TH5P-0252
Raith, S.; Ponater, M.; Sausen, R.; Peclth, 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.; Hallegratte, 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 greenhousegas 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
Copolla, 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
CLAVIER: Climate change and variability: Impact on Central and Eastern Europe
XY0266; EGU2007-A-10433; CL18-1TH5P-0266
Zor, M.
Remote sensing monitoring of anthropogenic climatic changes effects on forested areas

XY0267; EGU2007-A-05636; CL18-1TH5P-0267
Golubiatnikov, 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, Z.S.; Toro, K.; Dunay, G.Y.; Keller, E.
Evaluation of possible climatological effects on sudden cardiovascular death cases in Budapest

XY0269; EGU2007-A-04602; CL18-1TH5P-0269
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.; Pisciotta, 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.; Landerer, F. W.
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) – Posters

Convener: Stuut, J.
Co-Conveners: Prins, M.
Display Time: Thursday, 08:00–19:30
Author(s) 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 Bodelé 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 magnetostratigraphic 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.; Obershinsli, H.; Zoller, 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
The estimation of the vertical flux of fine-dispersed arid aerosol in the absence of dust storms.
XY0284; EGU2007-A-08772; CL34-1TH5P-0284
Sztarni, 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.; Scheufuss, 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.; Scheufuss, 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
Saharan dust deposits from Lanzarote (Canary Islands) – a continuous paleoprecipitation archive off NW Africa

XY0288; EGU2007-A-01170; CL34-1TH5P-0288
Machalet, B.; Oechs, 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.; Vital, 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.; Mullita, 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
Tynmans, D.; Claeyts, P.; Finsy, R.; Van Molle, M.
Short climatic oscillations recorded in a homogeneous Upper Pleistocene loess sequence.

XY0295; EGU2007-A-07905; CL34-1TH5P-0295
Asian dust provenance changes during the last 2.6 Myr at Lingtai section, the Chinese Loess Plateau and this implication to East Asian monsoon evolution

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**Cryospheric Sciences**

**CR120 Observations of glaciers and ice sheets from space (co-listed in G & CL)**

- **Convener:** Velicogna, I.
- **Co-Conveners:** Bamber, J.
- **Lecture Room 4 (H)**
- **Chairperson:** N.N.

**10:30–10:45:** EGU2007-A-05394; CR120-1TH2O-001
Paul, E.; Haebeler, 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.; Bindschadler, 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
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
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**

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**CR120 Observations of glaciers and ice sheets from space (co-listed in G & CL) – Posters**

- **Convener:** Velicogna, I.
- **Co-Conveners:** 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
Jezeck, K.; Farness, K.
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
CR140 Ice sheet - climate interactions (co-listed in CL)

Convener: Huybrechts, P.
Co-Convener(s): Fichefet, T.

Lecture Room 4 (H)

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 17:30–19:00
Poster Area Hall A
Chairperson: FICHEFET, T.

Conferences:

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.; Fichefet, T.
On the role 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
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): Fichefet, T.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 17:30–19:00
Poster Area Hall A
Chairperson: FICHEFET, T.

Conferences:

A0003; EGU2007-A-10032; CR120-1TH5P-0003
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
New aerogeophysical surveys of ice stream flowlines, ice divices, 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
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
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 supra-glacial lakes at the margins of the Greenland Ice Sheet
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

Wang, C.; Beckmann, Aike

CR140-1TH5P-0020; 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

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.
The ISMIP-HOM benchmark experiments performed using the finite-element code Elmer

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-Conveners: 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

Viel, A.; Nick, F.
The role of longitudinal stresses on the dynamics of tidewater outlet glaciers

A0033; EGU2007-A-09296; CR150-1TH4P-0033

Inverse modelling of basal velocity using a 2D higher-order ice-flow model

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 Smidt, 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 Smidt, 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

Parrrenin, 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.; Siegent, 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.; Peyerad, 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.; Gelagge, 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

488
A0046; EGU2007-A-09542; CR150-1TH4P-0046
Konovalov, 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 Isbøe

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
Winstup, 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
Hebeler, E.; 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.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 15:30–17:00
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 conveyer

A0057; EGU2007-A-02456; CR160-1TH4P-0057
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 conveyer

A0058; EGU2007-A-03714; CR160-1TH4P-0058
Rippin, D; Vaughn, D; Corr, H
The Role of Basal Roughness on the Flow Dynamics of Pine Island Glacier

A0059; EGU2007-A-04248; 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.; Loise, 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
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-Conveners: 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.; Kofoid, J.P.
Methods for Utilizing Renewable Energy Resources - Sea and Land Based Energy Converters (solicited)

XY0297; EGU2007-A-11678; ERE3-1TH2P-0297
Varga, A.; Mohácsy, Á.; Szakáll, M.; Bozoki, 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.; Rabiu, 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 Babacu fruits (Speciosa Orbignya) with the use purpose as biocumbustivel 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-Conveners: 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.; Kosinski, 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.; Colteilla, 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, 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.S.; van Wageningen, N.W.
CO2 storage and ECBM case study in Velenje Coalmine

XY0312; EGU2007-A-09651; ERE4-1TH4P-0312
Baele, J.M.; Raučić, 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.; Baelle, J.-M.; BaelleLegrain, 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-Steeger, 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
Vosteel, H.-D.; May, F.
Geochemical cap rock reactions associated with the option of CO2 storage and enhanced gas recovery (CSEGIR)

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
Leteau, 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

Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 13:30–15:00
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, T.; 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

XY0326; EGU2007-A-09480; ERE5-1TH3P-0326
Griesser, J.; Gommes, 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.; Mannozzi, 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: Priekyl, 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.; Gonzalez-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, A.; Siegsmund, 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
Preliminary report. 

Poster Area Halls X/Y Chairperson: N.N.
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 multi-type volcanic natural stone applied on the Cathedral of Funchal, Madeira island

XY0339; EGU2007-A-07169; ERE7-1TH2P-0339
Priekyl, R.; Novotny, J.; Weisshaupova, Z.; Makalova, K.; Krutilova, K.
Exploration and testing of the authentic and alternative stone types for the monument repair: a case study of elastic 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
Priekyl, R.; Gajda, J.; Martinec, P.; Vavro, M.
Chlorite-tale 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 solution

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.; Priekyl, 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.; Vásárhelyi, B.; Priekyl, 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
Priekyl, R.; Priekylova, J.; Siegl, P.
Greisens – the unconventional sculptural and architectural stone

XY0350; EGU2007-A-10184; ERE7-1TH2P-0350
García del Cura, M. A.; Câmara, 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: Priekyl, R.
Co-Conveners(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.

XY0355; EGU2007-A-04776; ERE8-1TH4P-0355
Miskovsky, K.; Priekyl, 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
Priekyl, R.
Are rock fabric coefficients applicable for evaluation of the mechanical performance of the rocks?

XY0357; EGU2007-A-08452; ERE8-1TH4P-0357
Priekyl, R.; Svoboda, F.
Influence of petrographic parameters and the test conditions on the assessment of fines by loss-in-weigh 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 Bituminous 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
Martinec, P.; Vavro, M.; Saffra, 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
Rübben, 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
The Austrian mineral resources plan - evaluation of aggregates

XY0368; EGU2007-A-02614; ERE8-1TH4P-0368
Lukschova, Š; Poikryl, 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; GMPV2-1THIO-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; GMPV2-1THIO-002
Neri, M.; Behncke, B.; Burton, M.; Galli, G.; Giammanco, S.; Pecora, E.; Privitera, E.; Reitan, D.
The July 2006 eruption of Mount Etna (Italy) monitored through continuous soil radon measurements

9:00–9:15; EGU2007-A-02970; GMPV2-1THIO-003
Masotti, M.; Falsaperla, S.; Langer, H.; Spampinato, S.; Campamini, R.
Activity regimes inferred from automatic classification of volcanic tremor at Mt. Etna, Italy

9:15–9:30; EGU2007-A-03440; GMPV2-1THIO-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; GMPV2-1THIO-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; GMPV2-1THIO-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; GMPV2-1THIO-001
Zenzi, 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; GMPV2-1THIO-002
Galle, B.; The NOVAC team
NOVAC – Network for Observation of Volcanic and Atmospheric Change

11:00–11:15; EGU2007-A-00471; GMPV2-1THIO-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; GMPV2-1THIO-004
Carling, G.; Saito, T.; Dangerfield, A.; Radebaugh, J.; Tinge, 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; GMPV2-1THIO-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; GMPV2-1THIO-006
Romeo, G.; Urbini, G.; Benedetti, F.; Mari, M.
Modular thermal gradiometer (solicited)

12:00 END OF SESSION
GMPV 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
Di Grazia, G.; Cannata, A.
GPS deformation measurement from the Krakatau volcano (Indonesia)

A0068; EGU2007-A-07238; GMPV2-1TH3P-0068
Meurers, B.; Schattauer, I.; Stötter, 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.; Liotto, M.; Madonia, P.
Relationship between surface temperature and seismic activity at Vulcano (Aeolian Island)

A0073; EGU2007-A-05854; GMPV2-1TH3P-0073
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.; Behnke, 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
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.; Tingeay, D.; Keith, J.; South, J.
Accuracy of MODIS on Kiluaea 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.; Scuderì, L.; Fischer, T.; Realmuto, V.; Hilton, D.; Yulhas, 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.; Ingugiagetti, S.
Continuous SO2 flux measurements at Vulcano Island, Aeolian Archipelago (Italy)

A0084; EGU2007-A-02344; GMPV2-1TH5P-0084
Wiersberg, T.; Somma, R.; De Rosa, M.; Zimmer, M.; Quattrocieli, 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.

A1330–13:45; EGU2007-A-02140; GMPV8-1TH3O-001
Marty, B.
Tracing long-term fluxes of volatile elements between surface and mantle reservoirs (solicited)

A1345–14:00; EGU2007-A-02250; GMPV8-1TH3O-002
Barsanti, M.; Barbato, D.; Papale, P.; Longo, A.; Moretti, R.
Large carbon dioxide abundance in magma from Kiilauea 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.; Guerrieri, 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
Sobissewitch, 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 Piers, 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
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.; Cristina, L.; Fisciottta, 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.; Guerrieri, 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
Donmini, 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.; Giudice, G.; 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
Soil and groundwater discharge of magmatic/hydrothermal CO2 and He on south-western Ischia Island (Central Italy)

A0099; EGU2007-A-07790; GMPV8-1TH1P-0099
Mercury in air and volcanic gases at Mt. Etna area

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
Donmini, M.; Chiodini, G.; Avino, R.; Baldini, A.; Cardellini, C.; Caliro, S.; Frondini, F.; Granieri, D.; 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.; Giudice, G.; 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 gases at Mt. Etna area

A0099; EGU2007-A-07790; GMPV8-1TH1P-0099
Plant based detection of dry mofettes - an example from the volcanic Laacher See district, Germany
A0100; EGU2007-A-08124; GMPV8-1TH1P-0100
Viveiros, E.; Ferreira, T.; Gaspar, J.L.; Virgili, G.; Silva, C.
Gas geochemical monitoring system in Furna do Enxofre lava cave (Graçiosa 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
Afonso, J. C.
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-Conveners: Ranalli, G., Vannucci, R.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 15:30–17:00

Poster Area
Chairperson: GIOVANNI B. PICCARDO

A0105; EGU2007-A-00476; GMPV12-1TH3P-0105
Messef, I.; Rahgoshay, M.; Shafaii Moghadam, H.
Peridotites from the Khoy 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
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
Ashchepekov, I.V.; Pokhilenko, N.H.; Vladynki, N.V.; Rotman, A.Y.; Logvinova, A.M.; Afanasiev, V.P.; Kostrobitsky, S.I.; Pokhilenko, L.N.; Malgin, E.V.; Kuligin, S.I.
Signs of mantle diapirism beneath the Siberian carton 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 earthquakes 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.; Demontevera, E.I.; Puleskii, S.V.; Nikolaeva, I.V.; Rasskov, 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
Nédlí, Zs.; Princivalle, F.; Dobosi, G.; Embeey-Iztsin, A.
Clinoxyroxene 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-07678; 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 focused melt migration through the mantle lithosphere: Geochemical evidence from dunite-hosted clinoxyroxenes 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

Conveners: Gross, R.; Co-Conveners: Slag, H.

Display Time: Thursday, 08:00–19:30

**Authors in Attendance:**

**Thursday, 17:30–19:00**

**Poster Area Halls X/Y**

Chairperson: GROSS, R.

Authors in Attendance: Thursday, 17:30–19:00

Display Time: Thursday, 08:00–19:30

Co-Convener(s): Plag, H.

Convener: Gross, R.

of the solid earth? (co-organized by GD)

- Wziontek, H.; Falk, R.; Wilmes, H.; Wolf, P.
  - Improved combination of superconducting and absolute gravity measurements

- 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
  - 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

- 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**

Conveners: Boehm, J.

Co-Conveners: Jakowski, N.

Lecture Room 6 (K)

Chairperson: BOEHM, J.

**Friday, 09:00–13:45**

**9:00–9:15:**

EGU2007-A-06269; G5-1TH10-001
- Nilsson, T.; Elgered, G.; Johansson, J.M.; Lidberg, M.
  - Investigation of long-term trends in water vapour using the Swedish GPS network

**9:15–9:30:**

EGU2007-A-04957; G5-1TH10-003
- Hulley, G.; Pavlis, E. C.
  - Refraction modeling in SLR by ray tracing through meteorological data

**9:30–9:45:**

EGU2007-A-06357; G5-1TH10-004
- Niell, A.; Leidner, M.
  - Using a Numerical Weather Model to convert WVR brightness temperatures to delay

**9:45–9:99:**

EGU2007-A-10533; G5-1TH10-005
- Wziontek, H.; Ihde, J.; Wilmes, H.
  - A database for absolute gravity measurements at BKG - a basis for geophysical interpretation at global scale.

**10:00–10:15:**

EGU2007-A-04957; G5-1TH10-003
- Hulley, G.; Pavlis, E. C.
  - Refraction modeling in SLR by ray tracing through meteorological data

**10:15–10:30:**

EGU2007-A-07630; G5-1TH10-004
- Niell, A.; Leidner, M.
  - Using a Numerical Weather Model to convert WVR brightness temperatures to delay

**10:30–10:45:**

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
9:45–10:00; EGU2007-A-08562; G5-1TH1O-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; G5-1TH2O-001
von Engeln, A.; Marquardt, C.; Luntama, J.-P.; Wilson, J.
The GRAS instrument on MetOp: Overview

10:45–11:00; EGU2007-A-09062; G5-1TH2O-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; G5-1TH2O-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; G5-1TH2O-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; G5-1TH2O-005
Hoque, M.M.; Jakowski, N.
Ionospheric refraction on GPS signals received onboard LEO satellites

11:45–12:00; EGU2007-A-05845; G5-1TH2O-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-Conveners(s): Jakowski, N.
Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 17:30–19:00
Poster Area Halls XY

Poster Area Halls XY
Chairperson: HEINKELMANN, R.

XY0392; EGU2007-A-03221; G5-1TH5P-0392
GPS-Tomography: Results and Analyses of the Operational Determination of Humidity Profiles over Switzerland

XY0393; EGU2007-A-09033; G5-1TH5P-0393
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.; Heinkelman, 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
Heinkelman, 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-Conveners: Lanari, R., Lundgren, P., Casu, F., Meghraoui, M.
Lecture Room 6 (K)
Chairperson: LUNARDI, R.
Wegmuller, U.; Strozzi, T.; Raetzo, H.
Cross-validation of Persistent Scatterer Interferometry Results over Lumnezia Landslide

13:45–14:00; EGU2007-A-02536; G8/NH11.02-1TH3O-002
Novati, 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.; Gurrera, 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.; Almeida, 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.; Novati, 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: MEGHRAOUI, M.
15:30–15:45; EGU2007-A-05313; G8/NH11.02-1TH4O-001
Baer, G.; Abelmos, M.; Finzi, Y.; Funning, G.; Nof, R.; Shmir, 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-004
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; Bowenga, 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-004
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-005
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/NH11.02-1TH4O-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
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
Zerboni, S.; Matoni, 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
Munzanta, 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

Conveners: Stramondo, S. Co-Conveners(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. Cosismic 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.; Nankai, 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.; Trasali, 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 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.; Pauciullo, 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

Conveners: Dietrich, R. Co-Converers(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.; Ramirez, 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.; Ramirez, 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. Geodetic 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-04101; 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
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.; Schnalzl, 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 perpective 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
Enjovly, R.; Monié, P.; Bruguiere, O.; Delor, C.; Barbev, 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.

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**Geodynamics**

**GD01 Geodynamics and Geochemistry of the Early Earth (co-listed in TS & GMPV) – Posters**

Convener: van Hunen, J.
Co-Conveners(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
Sitiikova, 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 Paleo-Proterozoic

A0119; EGU2007-A-01180; GD01-1TH1P-0119
Varlamova, A.; Sadoniv, A.; Novikov, D.
Layered Proterozoic PGE-bearing intrusions on the NE Baltic Shield: new U-Pb on zircon and He/H3 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.
Kinematics 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

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**GD05 The Origins of Melting Anomalies – Posters**

Convener: Foulger, G.
Co-Conveners(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, C.J.; Thirlwall, M.F.; Lowry, D.
Age and petrogenesis of the EM I source beneath Óraefajökull, 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

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-ITH4P-0133
Viereck-Goette, L.; Schönert, R.; Abratis, M.; Elsner, M.; Bonifeur, 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-ITH4P-0134
Chuvashova, L.; Rasskazov, S.; Yasnygina, T.
Alkaline basaltic volcanism in Central Mongolia and Northeast China for the past 15 Ka: decompressional and delayed fluid melting of the mantle

A0135; EGU2007-A-05141; GD05-ITH4P-0135
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-ITH4P-0136
Demontserova, 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-ITH4P-0137
Sharma, K.
K-T magmatism of northwestern Indian shield: A result of fragmenting continent

A0138; EGU2007-A-06353; GD05-ITH4P-0138
Dyment, 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-ITH4P-0139
Hansen, U.
Plumes in a convecting mantle

A0140; EGU2007-A-06458; GD05-ITH4P-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-ITH4P-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-ITH4P-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-ITH1P-0143
Pasquale, V.; Chiozzi, P.; Verdoya, M.
Dynamics of the Tyrrenian subduction zone

A0144; EGU2007-A-05979; GD07-ITH1P-0144
Lower plate control of upper plate deformation at the toe of the NW Sumatra convergent margin from swath bathymetry

A0145; EGU2007-A-06263; GD07-ITH1P-0145
First results from the SAGER-OBS deep seismic cruise (July/August 2006) offshore Sumatra

A0146; EGU2007-A-07446; GD07-ITH1P-0146
Wittwer, A.; Kopp, H.; Wagner, D.; Fliueh, E.; Rabbel, W.
Wide-angle seismic investigation of the central Java subduction zone

A0147; EGU2007-A-08694; GD07-ITH1P-0147
Emmerson, B.
Thermal structure and seismicity associated with subhorizontal subduction beneath Peru and central Chile

A0148; EGU2007-A-09031; GD07-ITH1P-0148
Granja, J. L.; Carbó, A.; Muñoz-Martín, A.; ten Brink, U.; Córdoba, D.; Martín Dávila, J.
Active tectonics in Los MuertosTrough area (North-East Caribbean plate): From reprocessed seismic reflection profiles.

A0149; EGU2007-A-03194; GD07-ITH1P-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-ITH1P-0150
Hussson, L.; Facenna, C.; Conrad, C.P.
Westward drift of the Pacific plates, trenches, and upper mantle

A0151; EGU2007-A-09329; GD07-ITH1P-0151
Arrial, P.-A.; Grasset, O.; Moquet, A.; Guivel, C.; Humler, E.
Numerical tests on the relationship between crustal thickness and partial melting in subduction zones

A0152; EGU2007-A-04283; GD07-ITH1P-0152
Funicello, F.; Heuret, A.; Facenna, C.; Lallemend, S.; Di Giuseppe, E.
How does mantle viscosity influence the subduction process. Insights from laboratory models

A0153; EGU2007-A-08796; GD07-ITH1P-0153
Bousquet, R.; Arcay, D.; De Capitani, C.
Do metamorphic reactions influence the subducting dynamic?

A0154; EGU2007-A-08436; GD07-ITH1P-0154
Zlotnik, S.; Fernández, M.; Díez, P.; Vergés, J.
A numerical study of subduction parameters

A0155; EGU2007-A-04244; GD07-ITH1P-0155
Predicting trench and plate motion

A0156; EGU2007-A-04318; GD07-ITH1P-0156
Heuret, A.; Funicello, F.; Facenna, C.; Lallemend, S.
Plate kinematics, slab shape and back-arc stress: a comparison between laboratory models and current subduction zones

A0157; EGU2007-A-03388; GD07-ITH1P-0157
Di Giuseppe, E.; van Hunen, J.; Funicello, F.; Facenna, C.; Giardini, D.
Subduction zone dynamics: 3D numerical models and energy balance

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**GD09 Ice-Mass Fluctuations and the Dynamical Responses of the Solid Earth (co-organized by G) – Posters**

Convener: Poutanen, M.
Co-Conveners: Gregersen, S.
Display Time: Thursday, 08:00–19:30

**A0158; EGU2007-A-09519; GD09-1TH3P-0158**

The application of 3-D Earth models to Fennoscandian glacial isostatic adjustment

**A0159; EGU2007-A-08954; GD09-1TH3P-0159**
Mäkinen, J.; Kaftan, V.I.; Demiyanov, G.V.; Kuznetsov, Yu.G.; Zabnev, V.I.; Lehmuuskoski, 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.; Rijsdijk, K.

River Terraces as a Proxy for Glacio-isostasy?

**GD18/G2 Ice-Mass Fluctuations and the Dynamical Responses of the Solid Earth (co-organized by G) – Posters**

Convener: Vermeersen, B.
Co-Conveners: Kaufmann, G.
Display Time: Thursday, 08:00–19:30

**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**

Thinning of the major outlet glaciers in southeast Greenland

**A0168; EGU2007-A-08181; GD18/G2-1TH3P-0168**

Improving the constraint on present-day ice mass changes with tide gauge data

**GD19 Potential Fields in Geodynamics and Geostatics**

Convener: Strykowski, G.
Co-Conveners: Kaban, M., A. Ardalan, A.
Lecture Room 23
Chairperson: N.N.

Kaban, M.K.

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.; Ardalan, 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
Meeting Programme

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 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 Sahil El Qaa area, southern Sinai Peninsula, Egypt

A0172; EGU2007-A-02163; GD19-1TH1P-0172
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.; Kozlovskaia, 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.; Kozlovskaia, 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: Kusznir, 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
Verzbiskiy, 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
Oakley, 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.; Kusznir, N.J.
Structure and evolution of the northern Voring and Lofoten-Vesteraalen margins, and their conjugate NE Greenland margin (solicited)

9:45–10:00; EGU2007-A-03964; GD20-1TH1O-006
Torsvik, T.H.; Steinberger, B.; Gaima, C.
North Atlantic plate motions and plumes (solicited)

10:00; GD20-1TH1O-007
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; GD20-1TH2O-007
Chairperson: N.N.

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; GD20-1TH3O-008
Chairperson: N.N.

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
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 Martinez, 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.; Schläfli, C.
Younger Dryas glacial landsystems in the Swiss Alps â—‡ processes of moraine formation and modification

17:00; GD20-1TH4O-009
Chairperson: N.N.

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.

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.; Nienhuis, 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.; Gätter, H.; Heinrich, I.
Permanently frozen ground and related ground movements: new applications in dendrogeomorphology

XY0443; EGU2007-A-09441; GM9-1TH5P-0443
Comparison of two active rockglaciers: Sannjarreip’i 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
Noetzel, 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 Mühll, D.
First Experiences with wireless Sensor Networks in steep Bedrock Permafrost

XY0449; EGU2007-A-09713; GM9-1TH5P-0449
Bedehäsing, J.; Kraublatter, M.; Wolff, I. W.
Detailed geomorphological mapping in a high mountain/periglacial environment, Matteral and Turtmanntal, 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 Lappland, 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 Turtmanntal, 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
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-Conveners(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?

Schrott, L.; Sass, O.; Götz, J.; Geilhausen, M.
Sediment storage in alpine basins – quantification and geomorph (de)coupling

9:30–9:45; EGU2007-A-10301; GM15-1TH1O-005
Dührnforth, D.; Densmore, D.; Ivy-Ochs, I.; Allen, A.
Fluxes in the eastern Sierra Nevada, California

9:45–10:00; EGU2007-A-08798; GM15-1TH1O-006
Székely, B.; Frisch, W.; Kühlemann, J.; Danišík, 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.
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
Noetzli, J.; Delaloye, R.; Ortner, H.; Lenhardt, W.; Brandner, R.
Deep Alpine and Perialpine Valleys

11:15–11:30; EGU2007-A-03833; GM15-1TH2O-004
Preusser, F.; Schlüchter, C.
On the age of deep glacial erosion in the Alps (solicited)

11:30–11:45; EGU2007-A-03834; GM15-1TH2O-005
Schrott, L.; Sass, O.; Götz, J.; Geilhausen, M.
Sediment storage in alpine basins – quantification and geomorph (de)coupling

11:45–12:00; EGU2007-A-03835; GM15-1TH2O-006
Székely, B.; Frisch, W.; Kühlemann, J.; Danišík, M.; Dunkl, I.
Glaciation cycles, sediment production, isostasy, and fluvial response: are the valleys in the Eastern Alps deep enough? (solicited)
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.; Chwatál, W.; Ullrich, Ch.
Deep Alpine Valleys – examples of geophysical explorations in Austria

11:45–12:00; EGU2007-A-03356; GM15-1TH2O-006
Röbi, 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-Conveners: 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.; Haueßelmann, 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
Burial dating of sediments by cosmogenic nuclides

XY0463; EGU2007-A-03270; GM15-1TH5P-0463
Popotnić, 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 seisms between Liezen and Weng (Austria)

GM17 Quaternary Landscape Evolution and Paleo-Geocology (co-listed in CL)
Convener: Terhorst, B.
Co-Conveners: Veit, H., Solleiro-Rebolledo, E.
Lecture Room 7
Chairperson: N.N.

10:30–10:45; EGU2007-A-00021; GM17-1TH2O-001
Ghilardi, M.; Kanesch, S.; Stylias, 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.; Azevedo, 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 paleoenvironments of Eastern Bolivia

11:30–11:45; EGU2007-A-09548; GM17-1TH2O-005
Krause, J.; Schütz, B.
Channel-morphology based palaeohydrological analysis of the Acheouma 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-Conveners: 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.; Damir, B.
Sequences of slope formation and actual process dynamics in the Flischi Drainage Zone of the Wienerwald (Vienna Forest/Austria)
XY0471; EGU2007-A-06268; GM17-1TH5P-0471
Jakab, G.; Sümeği, P.; Timár, G.
A palaeochannel evolution history from Hajós-kaszlálok Mire in Danube alluvial plain in the southern part of Hungary

XY0472; EGU2007-A-06284; GM17-1TH5P-0472
Sümeği, 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-10535; GM17-1TH5P-0474
Peticzka, R.; Riegler, D.
Comparison of Different Sample Intervals on the Location of “Stillfriib 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 geoarchaeology.

XY0476; EGU2007-A-08878; GM17-1TH5P-0476
Southamer, 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
Vanwalleghem, 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
Paszche, Ø.; Stromsøe, 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
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

GM19 Quantifying and modelling human and climate controlled sediment dynamics (co-listed in CL)

Convener: Verstraeten, G.
Co-Conveners: Lang, A., Houben, P.
Lecture Room 7
Chairperson: LANG, A. VERSTRAETEN, G.

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 Diège (Belgium)

14:45–15:00; EGU2007-A-02717; GM19-1TH3O-006
Brommer, M.B.; Weltje, G.J.; Kettnner, 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: HOULEN, P. VERSTRAETEN, G.

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
Göttz, 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.
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 the pre-alpine France

16:45–17:00; EGU2007-A-00011; GM19-1TH4O-006
Claessens, L.; Lowe, D.J.; Hayward, B.W.; Schaap, B.F.; School, 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

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Schmidt, S.; Condom, Th.; XY0485; EGU2007-A-0485; GM19-1TH5P-0485
Sediment transfers, sediment budgets and relief development in three catchments in different cold environments in sub-Arctic East Iceland and Arctic Swedish Lapland

Beylich, A.A.; XY0484; EGU2007-A-02784; GM19-1TH5P-0484
Sediment Budget Modeling in Mountain Areas: Usability of available Soil Data

YX0484: 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

YX0488: EGU2007-A-04855; GM19-1TH5P-0488
Condon, 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

YX0486: EGU2007-A-05703; GM19-1TH5P-0486
Döhler, D.; Wunderlich, W.; Houben, H.
Sediment budget in a German upland area for the Holocene (Odenwald mountains)

YX0487: 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

YX0488: 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

YX0489: 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

YX0490: 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

YX0491: EGU2007-A-01365; GM19-1TH5P-0491
Lu, Xi Xi
Rapid reduction of suspended sediment flux from large Chinese rivers to the sea

YX0492: EGU2007-A-02190; GM19-1TH5P-0492
Hardy, R.J.; Lane, S.N.; Parsons, D.R.; Best, J.L.; Orfeo, O.; Kostachuk, R.
Can Computational Fluid Dynamics be used to study large rivers?

YX0493: EGU2007-A-07447; GM19-1TH5P-0493
Lane, S.N.; Parsons, D.; Best, J.L.; Orfeo, O.; Kostachuk, R.; Hardy, R.J.
Why can big rivers take so long to mix downstream of tributary junctions

YX0494: EGU2007-A-07453; GM19-1TH5P-0494
Lane, S.N.
A theoretical analysis of controls on mixing at the junctions of large rivers

YX0495: EGU2007-A-03607; GM19-1TH5P-0495
Krasnoshecov, S.V.; 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-Conveners: 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.; Brucatielli, L.; De Donatis, M.; Susini, S.
Geomatics applied to landslide digital field mapping

XY0497: EGU2007-A-07752; GM24-1TH5P-0497
Giardino, M.; Perotti, L.; Chiuninatto, D.; Marencichino, 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
Vasena, G.
Rwenzori 2006 GPS geodetic network

XY0499: EGU2007-A-09760; GM24-1TH5P-0499
Vasena, G.; Sgrezearoli, M.; Gelmini, M.; Corti, G.; Smiraglia, G.
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.
Orthoprophotography 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, G.
An integrated, hierarchical, multiscale, gis_based approach to defining and mapping the landscape of Italy.

XY0503: EGU2007-A-10012; GM24-1TH5P-0503
Di Lisi, 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.; Robertelli, 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

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Geosciences Instrumentation and Data Systems

GI5 Space Instrumentation (co-listed in PS, ST, AS, G & OS)

Convener: Leese, M.
Co-Convenor(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 retracted RA2 individual waveforms 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 extraterrestrial 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: LESEE, M.

10:30–10:45; EGU2007-A-09112; GI5-1TH4O-001
Srama, R.; Rooser, 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 technology

11:30–11:45; EGU2007-A-04667; GI5-1TH2O-005
Vaiberg, O.; Berthelier, J.-J.; Torkar, K.; Leblanc, F.; Avanov, 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
A novel Supra-Thermal Ion Spectrometer for Heliospheric (STISH) missions

12:00 END OF SESSION
17:45–18:00; EGU2007-A-11492; GI6/PS1.3-1TH5O-002
Delamere, W.
Time Delay and Integration: From HMC to HiRISE (solicited)

18:00–18:15; EGU2007-A-00940; GI6/PS1.3-1TH5O-003
Huebner, W. F.
A review of imaging results from missions to comets (solicited)

18:15–18:30; EGU2007-A-08441; GI6/PS1.3-1TH5O-004
A'Hearn, M.
Cometary imaging: Remote sensing to Rosetta (solicited)

18:30–18:45; EGU2007-A-01919; GI6/PS1.3-1TH5O-005
Keller, H.U.; Sierks, H.
Cometary physics observed by OSIRIS during the Rosetta rendezvous (solicited)

18:45–19:00; EGU2007-A-01066; GI6/PS1.3-1TH5O-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-Conveners: Harri, A., Barnes, D.
Lecture Room 2
Chairperson: N.N.

Coleman, M.L; Webster, CR; Chutjian, A; Brunner, B; Christensen, LE; MacAskill, JA; Madzunkov, SM; Mielke, RE; Truong, KN
Novel approaches to stable isotope instruments for in situ measurements of mineral samples

13:45–14:00; EGU2007-A-03863; GI7/PS1.2-1TH3O-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-09949; GI7/PS1.2-1TH3O-003
Hegg, 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-10667; GI7/PS1.2-1TH3O-004
Ulamec, S.; Biele, J.; Block, J.; Lognonne, P.; Miminon, D.; Spohn, T.
A Geophysics Environmental Package for the ExoMars Mission

14:30–14:45; EGU2007-A-08160; GI7/PS1.2-1TH3O-005
METNET – atmospheric science network for Mars

14:45–15:00; EGU2007-A-10067; GI7/PS1.2-1TH3O-006
Foing, B.H.; Hovland, S.; European Lunar Lander Working Group
Lunar Polar Lander study

15:00–15:15; EGU2007-A-11544; GI7/PS1.2-1TH3O-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-Conveners: Zechner, E.
Lecture Room 28 (B)
Chairperson: N.N.

13:30–13:45; EGU2007-A-09792; HS7-1TH3O-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; HS7-1TH3O-002
Multistep outflow experiments for the simultaneous determination of soil physical and CO2 production parameters

14:00–14:15; EGU2007-A-10385; HS7-1TH3O-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; HS7-1TH3O-004
Vogel, T.
Modeling transport of contaminants in a transient preferential flow field

14:30–14:45; EGU2007-A-10373; HS7-1TH3O-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; HS7-1TH3O-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; HS7-1TH4O-001
Craig, J.R.
Extending the applicability of analytical contaminant transport models (solicited)
**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.; Kenma, 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.; Fiorsch, 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 seismoelecetric profiling - dependence on hydrogeological parameters

9:45–10:00; EGU2007-A-10699; HS9-1TH1O-006
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, G.; 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
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-geochemical 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
Mekhemen, H.; Sultan, S.; Abdalla, M.; Santos, F.
Integrated Geophysical Interpretation for groundwater potentiality at Wadi Ghubba, centenal 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

END OF SESSION
A0217; EGU2007-A-08211; HS12-1TH4P-0217
Krumbhholz, 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.; Papantonopulos, G.
Composite Sandwich Solution of a 3-D Geothermal Model in Nea Kessani (Greece)
A0219; EGU2007-A-00922; HS12-1TH4P-0219
Bergemann, M.; Kristoforova, 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, Ikizdere, Rize, Turkey
A0221; EGU2007-A-09493; HS12-1TH4P-0221
Rühaak, W.; Rath, V.; Wolf, A.; Clauer, 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): Buylaert, 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
A0223; EGU2007-A-01330; HS23-1TH3P-0223
Chou, F.Y.; Wyseure, G.
An innovative experiment for modelling hydraulic connectivity of hyporheic zone
A0224; EGU2007-A-01340; HS23-1TH3P-0224
Haregeweyn, N.; Poensen, 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; 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.; Mosaed, A.; Alaghmand, 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.; Gyoryfi, 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.; Bulla, 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.; Maolini, 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.; Ducharme, 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.
Construct 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
Markovic, 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, D.C.; 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.; Mikos, 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
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; Battalla, R; Gibbins, C; Gomez, C
Hydraulic and sedimentary influences on the catastrophic drift of stream invertebrates
Meyendonckx, J.; Dejonghe, W.; Joris, I.; Vanbroekhoven, K.; Seuntjens, P. (Im)mobilization of heavy metals in the interface between groundwater and surface water: site characterization


Ferraresi, M.; Telò, R. Hydrodynamic analysis of riparian areas in flood protection design: the River Taro case study.

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

Müller Schmied, H.; Helmschrot, J.; Vogt, M.; Flügel, W.-A. Hydro-ecological studies in cascading, riparian wetland systems in the Thuringian Forest, Germany


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.

Nutrient budgets for European seas: a measure of the effectiveness of nutrient reduction policies

Renewal of epilimnion water in Lake Tanganyika

Estimation of future nutrient enrichment in Europe’s regional seas

Ultraviolet laser fluorometry of Gdansk Bay waters (Baltic Sea)

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
Author in Attendance: Thursday, 13:30–15:00
Poster Area Hall A
Chairperson: N.N.

Renewal of epilimnion water in Lake Tanganyika

Rivers of the Russian Black Sea Coast: Can their Impact on the Sea be Quantified?

Ultraviolet laser fluorometry of Gdansk Bay waters (Baltic Sea)
Pedro (36.4° isotope geochemical signatures of Laguna Chica de San Pedro (36.4°) and Lago Puyehue (40.7°) sediments

One year experimental investigation of the atmospheric deposition in the Varna region-Black Sea coastal zone

Tracking of anthropogenic influences in the last centuries

A simple model of the eco-hydrodynamics of the epilimnion of Lake Tanganyika

Climate sensitive circulation of lakes

The lake level as an indicator of socio-economic development of the Lake Balaton

Sharp fluctuations in ecosystem parameters of the East Big Aral Sea

Impacts of climate change on socio-economic development of communities of the Volta Basin of West Africa

Reconstruction of historic changes of the Aral Sea water budget and sea-groundwater interactions by a coupled 3D sea-ice-groundwater model

Hydrology and Land Cover Changes of The Nyando River Catchment, Kenya

Mapping of lacustrine sediment thickness and water depth of the Lake Balaton

Mapping of lacustrine sediment thickness and water depth of the Lake Balaton

Hydrological and climatic conditions of the Vistula Spit near Kaliningrad area in the summer - autumn 2006 near the cape Taran and the Vistula spit.

Complex researches of a coastal waters condition of the Kaliningrad area in the summer - autumn 2006 near the cape Taran and the Vistula spit.

The effects of climate change on water availability in the Aral Sea region

The effects of climate change on water availability in the Aral Sea region

A model of the eco-hydrodynamics of the epilimnion of Lake Tanganyika

Climate sensitive circulation of lakes

The lake level as an indicator of socio-economic development of the Lake Balaton

A simple model of the eco-hydrodynamics of the epilimnion of Lake Tanganyika
**HS29 Objective and process-based catchment classification 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

Schaefli, B.; Zehe, E.; Sivapalan, M.
Catchment classification based on spectral signatures

**9:15–9:30:** EGU2007-A-07873; HS29-1TH1O-004

Skøien, 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 ACCESSION**
Chairperson: N.N.

**10:30–10:45:** EGU2007-A-02214; HS29-1TH2O-001

Samaniego, L.; Bárdossy, A.
Catchment characterization based on runoff copulas (solicited)

**10:45–11:00:** EGU2007-A-05264; HS29-1TH2O-002

Leblois, E.; Engeland, K.; Gottschalk, L.; Braud, I.; Dehotin, 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 hydrological 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**
**Meeting Programme**

**GIS-based experiences in Campania Region (Southern Italy). watershed scale from automated land-system recognition: Hydrogeomorphological units at regional, basin and catchment model identifying the influence of spatial information carriers in a perceptual representation to numerical model:**

**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**

Castellanin, A.; Brath, A. Regional predictions in ungauged basins through physiographical space-based interpolation

**A0282: EGU2007-A-03251; HS29-1TH3P-0282**

Mediero, L.; Jiménez, A. Regional analysis for frequency estimation of annual flood peaks in ungaged 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 characteristics

**A0285: EGU2007-A-03827; HS29-1TH3P-0285**

Dunn, S.M.; Tetlaff, 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**


**A0287: EGU2007-A-07889; HS29-1TH3P-0287**


**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**


**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 ungaged 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 ungaged basins

**HS36 Hydrological extremes: controls, spatial & temporal variability and regional patterns**

**Conveners:** Castellanin, A., Szolgay, J., Schaeffli, 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.; Laaha, G. 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 assessment in a new drought environment

**14:15–14:30; EGU2007-A-07015; HS36-1TH3O-004**

Bárdossy, A. 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 ungauged 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
Schaeffi, 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.; Schaeffi, 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.

END OF SESSION
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., Lakovich, 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 ans 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.; Plavsa, 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.
Advances in collision cell and sector-field based ICP-MS for improved isotope ratio analysis

A0324; EGU2007-A-02082; HS43-1TH3P-0324
Hattermann, F.F.; Conradt, T.; Kaltofen, 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

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.
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

Lippold, J.; Marpu, P.R.; Gloaguen, R.; Jonckheere, R.
Fission-Track Dating using Object-Based Image Analysis

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.

A portable FTIR spectrometer for real time field measurements of deD in water vapour and de13C in CO2

10:45–11:00; EGU2007-A-02398; IG2/GI14 - IG3/GI15-1TH2O-002
Iannone, R.; Romani, D.; Meiher, 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/GI15-1TH20-003
Tanveer, A.; Gröning, M.; Aggarwal, P.K.
Performance data of an infrared laser spectroscopic system for water stable isotope analysis

Lau, S.; Loemannsroeben, 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

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/GI15-1TH20-006
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.
Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 15:30–17:00
Poster Area Hall A
Chairperson: N.N.

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
3.5 Ga old zircons and Nd-model ages in the Taratarash Complex, Middle Urals: evidence for Archean and Proterozoic crustal fragments

U/Pb dating and geochemical characterization of the Brocken and the Ramberg Plutons, Harz Mountain, Germany

Bruguière, O.; Hammon, D.; Bosch, D.; Gaby, R.
Miocene injection 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

Krause, P.; Delmdahl, R.; Brune, J.
213 nm and 193 nm Laser Ablation Systems for geological applications - Which System for Which Application?

Alimov, V.; Heikkilä, U.; Beer, J.; Synal, H.-A.
36Ci in precipitation over Switzerland during 1988-2005

Cl-36 exposure dating with a 3-MV tandem

Mârghineanu, 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

Epov, V.N.; Donard, O.F.X.; Kalmychov, G.V.; Vasil’yeva, I.E.; Evans, R.D.
Si and S isotopic ratios in environmental and biological samples using MC-ICP-MS

Abraham, K.; Opfergelt, S.; Cavagna, A-J; Planchon, F.; Fripiat, F.; André, L; de Jong, J; Damien, C
Solving interference on 30Si with a Nu Plasma MC-ICP-MS

Bowman, C.; Krumen, 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?

Tadros, C; V; Griffith, D; 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

Tadros, C; V; Twining, J; R; Williams, A; G; Griffith, D; W; Haverd, V
Stable water isotope measurements in an Australian forest ecosystem

Mohn, J; Zeeman, M; J; Emmenegger, L
Field and laboratory study on atmospheric d13C-CO2 using FTIR spectroscopy

Cousin, J; Plus, S; Chen, W; Fertein, E; Boucher, D
Laser-based isotope ratio measurement

Afe, OA; Jaeg, FJ; Wagner, GW
Detection of 13CO2 and 12CO2 using diode laser driven Ramam scattering
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
Cotrell, 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
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): Vennerstrom, S., Thomson, A.
Lecture Room 34
Chairperson: MANDEA, M.
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.; Velinsky, J.; Martinez, Z.; Egbert, G. D.; Daglis, I. A.; Efthaxias, 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

Convenor: Mandea, M.
Co-Conveners: 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.; Mandea, 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.; Mandea, M.; Olsen, N.
Worldwide observatory hourly mean values 1995 to 2003: an investigation of their quality
A0356; EGU2007-A-01677; MPRG08-1TH1P-0356
Joining airborne geomagnetic maps of Romania and Republic of Moldova. Consistent geomagnetic models across 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.; Mandea, 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.; Mandea, 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
Poster Area Hall B
Chairperson: N.N.
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
Diomedet, T.; Marsigl, 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
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.; Reborba, 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
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.; Mazzetti, 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: BORG A, 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 rain gauge data analysis

13:45–14:00; EGU2007-A-05909; NH2.02-1TH3O-002
Georgakos, K.; Jubach, R.
A global perspective on flash flood 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.
ALIGA: 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.; Danáéová, M.; Baláž, 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-Conveners: 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.; Castellanin, 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 rain gauges for flood forecasting

18:45–19:00; EGU2007-A-08120; NH2.03-1TH5O-006
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-Conveners: 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.; Csik, 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 groundwater 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-Conveners: 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
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.; Böllschweiler, 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
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
Ostì, 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

Chairperson: JABOYEDOFF, M.

Convener: Jaboyedoff, M.
Co-Conveners(s): Couture, R., Derron, M., Crosta, G.
Lecture Room 27
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
Poster Area Halls X/Y
Display Time: Thursday, 08:00–19:30

8:30–8:45; EGU2007-A-07170; NH3.02-1TH1O-001
Rabetel, 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.; Genevoss, 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.; Villemlin, 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
Terrestrial laser scanning for rock slope 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 paleoseismological researches

10:45–11:00; EGU2007-A-06421; NH3.02-1TH2O-002
Shieh, C.I.; 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
Crosto, 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
Genevoss, R.; Galgaro, A.; Squarzoni, 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.; De-moulin, 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

Chairperson: Jaboyedoff, M.
Co-Conveners(s): Couture, R., Derron, M., Crosta, G.
Display Time: Thursday, 08:00–19:30

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.; Proksa, 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.; Cardinale, 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.; Marilier, F.
Determination of mobilised material by a mud flow in the Glaise forest (SW Switzerland) using a high resolution DEM

XY0544; EGU2007-A-08980; NH3.02-1TH5P-0544
Krautblatter, 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.; Casaglia, 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 fluviatile sediment transfer from the epicentral area of the 1999, Mw 7.6 earthquake

XY0547; EGU2007-A-07861; NH3.02-1TH5P-0547
Su-Chan, Chen; Chun-Hong, Wu
The evolution of landslides 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

XY0550; EGU2007-A-05537; NH3.14-1TH4O-0055
Burri, K.; Graf, F.; Boll, A.
Increasing Eco-Engineering Success with the joint Contribution of Plants and Mycorrhizal Fungi

XY0551; EGU2007-A-06136; NH3.14-1TH5P-0555
Sutili, F.; Durlo, M.A.; Florineth, F.; Rauch, H.P.
Investigations on the selection of plants for soil bioengineering measures in South Brazil

XY0552; EGU2007-A-05217; NH3.14-1TH5P-0552
Kovalev, N.; 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 Federation

XY0554; EGU2007-A-10410; NH3.14-1TH5P-0554
Montagnoli, A.; Di Iorio, A.; Magatti, G.; Scippa, G.S.; Chiantate, D.
Influence of forest managements on water runoff and soil erosion, in steep forestslands from northern Italy.

XY0555; EGU2007-A-07643; NH3.14-1TH5P-0555
Petrone, A.; Preti, F.
Investigation on autochtonal cuttings suitability for soil bioengineering measures in Central America

XY0556; EGU2007-A-08982; NH3.14-1TH5P-0556
Wu, W.; Fersdl, F.; Aschauer, F.
Model testing of biotechnically reinforced slopes in geotechnical centrifuge

XY0557; EGU2007-A-07869; NH3.14-1TH4O-006
Allegra, C.; Borre, 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

XY0558; EGU2007-A-06227; NH3.14-1TH4O-004
Lammeranner, W.; Meixner, M.; Florineth, F.
The effect of woody plants on dikes and levees: Design and construction of a model dike

XY0559; EGU2007-A-10576; NH3.14-1TH4O-004
Sauli, G.; Cornelini, P.
The application of native species of shrubs rooted and as cuttings in soil bioengineering intervention in the mediterranean areas in Italy

17:00 END OF SESSION

NH3.14 The role of vegetation in slope stability – Posters
Convener: Florineth, F.
Co-Conveners: Calcattera, D.; Doronzo, G.
Lecture Room 27
Chairpersons: 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.
Analsysing 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.; Jaboyedoff, 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

Chairpersons: CALCATERRA, D.
XY0556; EGU2007-A-01224; NH3.14-1TH5P-0556

Zeqar, 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

Doronzo, G.; Calcatera, D.; Papaccio, S.; Pellegrino, A.

Bioengineering techniques as a tool for integration and maintenance works in an urban area

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NH4.02 Electric, magnetic and electromagnetic phenomena related to earthquakes (co-listed in SM)

Convener: Biagi, P.

Co-Conveners: Molchanov, O., Hayakawa, M., Valiantanos, F.

Lecture Room 16 (L)

Chairperson: BIAGI, P.F.


Kopytenko, Yu.; Ismaguilov, V.; Hattory, K.; Hayakawa, M.

Magnetic location of ionosphere and lithosphere sources of ULF geomagnetic disturbances

13:45–14:00; EGU2007-A-03514; NH4.02-1TH5O-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; NH4.02-1TH5O-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; NH4.02-1TH5O-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; NH4.02-1TH5O-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; NH4.02-1TH5O-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

Ramirez-Rojas, A.; Cervantes de la Torre, F.; Pavia-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


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 Nanbu 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.; Elbokhity, 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.; Mezentsev, 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
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 other materials, from the laboratory to the geophysical scale

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
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.; Cherkis, Fr.; Fructus, D.; Talipovaj, 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.; Hong, S.J.
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
Meeting Programme

XY0575; EGU2007-A-01654; NH6.01-1TH5P-0575
Pelinovsky, E.; Schuling, R.D.; Cathcart, R.B.; Badesch, V.; Isvorana, D.
Astronomical 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.; Zalib, N.
Spectrum of the tide-gauge surface waves in Pointe-a-Pitre bay, Guadeloupe

XY0578; EGU2007-A-02301; NH6.01-1TH5P-0578
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.; Zamboni, 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
Altinok, Y.
Marmara Island earthquakes with associated sea waves

XY0582; EGU2007-A-11517; NH6.01-1TH5P-0582
Dominney-Howes, D.; Dunbar, P.; Varner, J.; Pathapam-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.; Shrirama, V.
Sumatra tsunami signature in sediment characteristics on the Sri Lankan coast

XY0586; EGU2007-A-04773; NH6.01-1TH5P-0586
Remediation process of groundwater quality in Asian Tsunami affected Southern Sri Lanka - Case study in Kumalagama area

XY0587; EGU2007-A-02585; NH6.01-1TH5P-0587
Ajith Joseph, K.; Rossin Raj; 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
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
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.; Khabakhpasheva, 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.; Kuzhenkova, N.V.; Kapochkin, A.B.
The geodynamics of earthquakes are generating tsunami.

XY0600 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

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14:15–14:30; EGU2007-A-02194; NH6.02-1TH30-003
Gramstad, O.; Trulsen, K.
Influence of crest and group length on the occurrence of freak waves

14:30–14:45; EGU2007-A-01674; NH6.02-1TH30-004
van Groesen, E.; Andonowati, A; She Liam, L.; Lakhituov, I.
Characterization of Extreme Waves in KdV-type models

14:45–15:00; EGU2007-A-00087; NH6.02-1TH30-005
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; NH6.02-1TH40-001
Kartashova, E.
The role of resonance conditions in the dynamics of nonlinear waves (solicited)

15:45–16:00; EGU2007-A-04251; NH6.02-1TH40-002
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; NH6.02-1TH40-003
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; NH6.02-1TH40-004
The impact of climate change on the storm surge over Irish sea

16:30–16:45; EGU2007-A-01323; NH6.02-1TH40-005
Voronovich, V.; Shirira, V.I.; Thomas, G.P.
Does bottom friction affect freak wave probability?

16:45–17:00; EGU2007-A-01212; NH6.02-1TH40-006
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-Conveners: 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.; Kimmiou, 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.; Broccolini, 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.; Lamb, K.G.; Polukhina, O.E.; Kurkin, A.A.
Large-amplitude internal solitons and breathers in the Luson Straight

XY0610; EGU2007-A-01346; NH6.02-1TH5P-0610
Talipova, T.; Polukhina, O.; Lavrenow, 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
Premasiri, 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
XY0619; EGU2007-A-03642; NH6.03-1TH4P-0619
Recorbet, E.; 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, IJ.
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
Concetti, 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.; Tesauro, 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 (Tyrrenian sea coast of Latium, central Italy)

XY0632; EGU2007-A-03228; NH9.01-1TH5P-0632
Papathoma-Koeble, 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
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
**Economic aspects of flood protection enhancements techniques at eastern part of Nile Delta, Egypt.**

Matsushima, J.

**Co-Convener(s):** Grignon, A., Guzzetti, F.

**Convener:** Reichenbach, P.

**Natural Hazards and Risk Assessment**

**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.

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**NH9.05 Economic aspects and societal decision making in hazards and risk management – Posters**

Convenor: 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.; Bányai, T.

Optimised technical resource management of networked recycling

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**NH10.03 Geo-Databases and Information Systems for Natural Hazards and Risk Assessment**

Convenor: Reichenbach, P.

Co-Convener(s): Grignon, A., Guzzetti, F.

Lecture Room 24

Chairperson: REICHENBACH, P.

**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


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


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; NH10.03-1T6S0-0660
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; NH10.03-1T6S0-0661
Pereira, Dr.; Bateira, Prof.
A Landslide Geodatabase of the Northern Portugal region

XY0662; EGU2007-A-09769; NH10.03-1T6S0-0662
Baldi, B.; Coscini, N.; Del Seppia, N.; Graziosi, B.; Massa, G.; Perna, M.; Rossetto, R.; Simoncini, D.; Carmignani, L.
Geo thematic maps for landslide hazard management in the Serchio River Basin (Northern Tuscany, Italy).

XY0663; EGU2007-A-02199; NH10.03-1T6S0-0663
Peruccacci, S.; Rossi, M.; Balducci, V.; Guzzetti, F.
A world-wide database of rainfall thresholds for the possible initiation of landslides

XY0664; EGU2007-A-02984; NH10.03-1T6S0-0664
Polemio, M.; Petrucci, O.
Geo-database and characterisation of drought effect on groundwater

XY0665; EGU2007-A-09440; NH10.03-1T6S0-0665
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

XY0666; EGU2007-A-04707; NH10.03-1T6S0-0666
IM, C.B.; SHIM, T.M.; NOH, M.; LEE, H.; CHO, 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-Conveners: von Hardenberg, J., Lovejoy, S., Redondo, J., Toth, Z., Timmermann, A.
Lecture Room 4 (H)
Chairperson: D. SCHERTZER

18:15–18:45; EGU2007-A-01172; NP1.01/US9-1T6S0-004
Penke, J.
Wind Energy: a Challenging Nonlinear Problem (solicited)

18:45–19:15; EGU2007-A-01173; NP1.01/US9-1T6S0-005
Dum, R.
A multidisciplinary approach to modelling: Can scientific modelling guide policies? (solicited)

19:15–19:45; EGU2007-A-01175; NP1.01/US9-1T6S0-001
Givone, P.
Hydrology, extreme events estimation, rivers regimes predictions, data dependency and persistence (solicited)

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-Conveners: 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/CR180-1T6S0-0669
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/CR180-1T6S0-0666
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

XY0671; EGU2007-A-05787; NP2.02/CR180-1T6S0-0672
Schoof, C.; Creyts, TT
Hysteresis in a model for subglacial sheet drainage

XY0672; EGU2007-A-10481; NP2.02/CR180-1T6S0-0671
Rempel, A.
Frost Heave and Sediment Entrainment by Glaciers

XY0673; EGU2007-A-04707; NP2.02/CR180-1T6S0-0673
 embroidered by 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-Conveners: Keilis-Borok, V., Panza, G., Simon, F., Roulhan, B.
Lecture Room 4 (H)
Chairperson: KOSSOBOKOV, V.

13:30–14:00; EGU2007-A-06766; NP4.05/US8-1T6S0-001
Keilis-Borok, V.I.
Earthquake prediction: paradigms and opening possibilities (solicited)

14:00–14:30; EGU2007-A-05722; NP4.05/US8-1T6S0-002
Collaboratory for the Study of Earthquake Predictability (solicited)

14:30–15:00; EGU2007-A-01833; NP4.05/US8-1T6S0-003
Uyeda, S.; Nagao, T.; Kamogawa, M.
Earthquake prediction: current status of seismoelectromagnetics (solicited)
15:00 COFFEE BREAK

Chairperson: PANZA, G.

15:30–16:00; EGU2007-A-01695; NP4.05/US-1TH4O-001
Nyland, E
Social impact of earthquake prediction (solicited)

16:00–16:30; EGU2007-A-03170; NP4.05/US-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/US-1TH4O-003
Laor, E.
Disaster prediction and civil preparedness (solicited)

16:45–17:00; EGU2007-A-11255; NP4.05/US-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/US-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/US-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/US-1TH5O-005
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, I.I.; 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.

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

535
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
Parnizin, E.I.; Shutyav, V.P.
Numerical solution of variational data assimilation problem for 3D ocean model with 1D nonlinear vertical heat exchange

15:00 COFFEE BREAK

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.; Solovyev, 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
Nowcasting with Indistinguishable States

16:45–17:00; EGU2007-A-03176; NP5.02-1TH4O-006
Ismail-Zadeh, A.; Schubert, G.; Tsepelev, I.; Korotki, 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

Conveners: Cencini, M.
Co-Conveners: Redondo, J., Bouquet, S.
Display Time: Thursday, 08:00–19:30

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&#8217;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-Helmholz Instability in Astrophysics (solicited)

XY0685; EGU2007-A-11554; NP6.06-1TH4P-0685
Dolgoeva, G.V.; Zhmaylo, V.A.; Novikova, E.A.; Statenson, 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-Conveners: Lanotte, A.
Display Time: Thursday, 08:00–19:30

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
NP6.08 Nonlinear geophysical fluid dynamics – Posters

Conveners: Caulfield, C.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: N.N.

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

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 solutions 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.; Randria-mampioniana, A.
Direct Numerical Simulation of the transition from baroclinic to centrifugal convection

XY0698; EGU2007-A-03576; NP6.08-1TH3P-0698
Baas, A.C.W
Eolian 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 generated 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.; Figli, 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
Guye, 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)

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Ocean Sciences

OS3 Ocean Tracers and Anthropogenic CO2 (co-listed in BG & CL)

Conveners: Schlosser, P.

Co-Conveners: Wallace, D., GRUBER, N.

Lecture Room D
Chairperson: N.N.

8:30–8:45; EGU2007-A-04679; OS3-1TH1O-001
Jenkins, W. J.
Using tritium and helium-3 to study ocean circulation and ventilation (solicited)

8:45–9:00; EGU2007-A-05789; OS3-1TH1O-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 resonance (solicited)

9:00–9:15; EGU2007-A-05086; OS3-1TH1O-003
Ledwell, J.; Smethie, W.; Ho, D.
The use of SF5CF3 for tracer release experiments (solicited)

9:15–9:30; EGU2007-A-05912; OS3-1TH1O-004
Spieler, A.; 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.; Khatiwala, 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.; Smetne Jr., W.M.
1291 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-Conveners(s): Bertino, L., Coelho, E.
Lecture Room 3
Chairperson: N.N.

8:30–8:45; EGU2007-A-02461; OS4-1TH1O-001
Harding, I.; 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
Baron, C.N.; Smelstad, L.F.; Dastugue, J.M.; Smelstad, 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.; Dombrowsky, 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.; Liseter, K.A.; Hydalsvik, F.
Assessment metrics for the TOPAZ monitoring and prediction system

9:45–10:00; EGU2007-A-11533; OS4-1TH1O-006
Hogan, P. J.; Smelstad, O.M.; Cummings, J.; Wallcraft, A.
Skill assessment 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
Evaluating the performance of real-time forecast models of the NW European shelf seas

11:00–11:15; EGU2007-A-05616; OS4-1TH2O-003
Schrumpf, C.; Alekseeva, I.; Jennison, F.; Dickmann, R.; St. John, M.
Skill assessment for the coupled physical-biological model ECOSMO

11:15–11:30; EGU2007-A-08974; OS4-1TH2O-004
Skill assessment of a coupled hydrodynamic-ecosystem coastal-ocean model

11:30–11:45; EGU2007-A-09540; OS4-1TH2O-005
Dobricic, S.; Pinardi, N.; Adami, M.; Tonani, M.; Frattiani, 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.; Wikle, 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-Conveners(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
10:00 END OF SESSION

OS16 Model development for large- and small-scale processes in the ocean (co-listed NP)
Convener: Deleersnijder, E.
Co-Conveners: Schröter, J., Oschlies, A., Lermusiaux, P.
Lecture Room D
Chairperson: N.N.
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; OS16-1TH3O-002
Primeau, F.; Li, X.; Kwon, E.Y.
Fully implicit global ocean-biogeochemistry model
14:00–14:15; EGU2007-A-06039; OS16-1TH3O-003
Hense, I.
Feedback mechanisms between cyanobacteria and their environment - insights from numerical experiment
14:15–14:30; EGU2007-A-08653; OS16-1TH3O-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; OS16-1TH3O-005
Cessi, P.
A parametrization of eddy tracer flux constrained by the energy balance
14:45–15:00; EGU2007-A-02729; OS16-1TH3O-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; OS16-1TH4O-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; OS16-1TH4O-002
Yakovlev, N.
Arctic Ocean climate simulations by the FE model and directions of future progress.
16:00–16:15; EGU2007-A-06390; OS16-1TH4O-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; OS16-1TH4O-004
Getzlaff, J.; Oschlies, A.; Nurser, G.; Smeed, D.
Diagnostics of diapycnal mixing z-level models
16:30–16:45; EGU2007-A-03861; OS16-1TH4O-005
Hervieux, G.; Penduff, T.; Barrier, B.
Numerical sensitivity studies of dense overflows in the DRAKKAR framework
16:45–17:00; EGU2007-A-09710; OS16-1TH4O-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; OS16-1TH5O-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; OS16-1TH5O-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; OS16-1TH5O-003
Dynamically adaptive finite element analysis of open ocean deep convection; model validation and parameterisation.
18:15–18:30; EGU2007-A-10740; OS16-1TH5O-004
Kramer, SC; Pain, CC; Piggott, MD
An efficient solution of the large aspect ratio pressure Poisson equation in unstructured global ocean models
18:30–18:45; EGU2007-A-08330; OS16-1TH5O-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; OS16-1TH5O-006
Labbeur, 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-Conveners: 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.; Debretu, 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
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.; Chevaugeon, 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
Combien, 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.; Labur, R.
Non-hydrostatic unstructured grid modelling of trapped
internal waves and lee waves

XY0725; EGU2007-A-06194; OS16-1TH2P-0725
Kumuro, Y.
An application of a cubic grid OGC 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
Lathuillère, 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
Krémer, 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
K locker, A.; McDougall, T.; Jakett, D.
Quantifying the consequences of the ill-defined nature of
neutral surfaces

XY0731; EGU2007-A-11371; OS16-1TH2P-0731
Délhez, 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

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**Planetary and Solar System Sciences**

**PS1.0 Exploring the Solar System - Missions and Techniques – Posters**

Conveners: Muller, C.
Co-Conveners: 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
Osvald, 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.
Monitoring of the planetary electromagnetic environment

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, O.E.; Steinbach, F.; 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)
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
Kochanov, 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
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.; Beavivire, 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
Geometrical analysis of AMIE/Smart-I images and applications to photometric studies of the lunar surface

XY0748; EGU2007-A-08820; PS2.4-1TH4P-0748
Backrud, M.; G. Blomberg, L.; Mållkki, 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
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
A simulation study for anticipated accuracy of lunar gravity field model by SELENE tracking data

XY0755; EGU2007-A-03977; PS2.4-1TH4P-0755
Chandrayaan-1 Energetic Neutals Analyzer: First calibration 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, ILLEGW
ILEWG Rationale and Roadmap for Lunar Exploration

XY0758; EGU2007-A-06739; PS2.4-1TH4P-0758
Dust detector for a Lunar orbiter

XY0759; EGU2007-A-08630; PS2.4-1TH4P-0759
Skalsky, A.; Mogilevsky, M.; Zelenyi, 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 transition region

9:00–9:15; EGU2007-A-01865; PS3.0-1TH1O-003
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.; Lemon, 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.; le Mouélic, S.; Sotin, C.; Courtestis, 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
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
Titan: Surface composition from Cassini VIMS (solicited)

11:30–11:45; EGU2007-A-04694; PS3.0-1TH2O-005
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.

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.; Le Mouélic, S.
A large, tectonic complex in Titan’s southern hemisphere – Impact spawned? (solicited)

14:15–14:30; EGU2007-A-02462; PS3.0-1TH3O-004
Discovery of a Dynamic Atmosphere at Enceladus from Cassini Magnetometer Observations (solicited)

15:00–15:15; EGU2007-A-04735; PS3.0-1TH3O-005
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-Conveners(s): SpiJker, L.
Lecture Room 15 (F2)

Chairperson: ROATSCH, T.

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
Optical properties of small particles near Saturn’s G ring
geomagnetic superstorms
The Sun, the solar wind and GIC effects in Sweden during intense geomagnetic storms

18:00–18:15; EGU2007-A-07663; PS3.1-1TH5O-007
Tobie; G.; Cadek; O.; Sotin, C.
Tidal heating, liquid water and the origin of the South Polar Hot Spot on Enceladus

18:30–18:45; EGU2007-A-08276; PS3.1-1TH5O-005
Librations and ice shell thickness of Europa

19:00–19:15; EGU2007-A-09971; PS3.3-1TH5O-005
Space weather effects at Titan, Venus and Mars (solicited)

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

X0763; 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

X0764; 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

X0765; 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

X0766; EGU2007-A-02126; PS5.3-1TH4P-0766
Xu, X
Statistical characteristics of the day-to-day variability in the geomagnetic Sq field

X0767; 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

X0768; 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.

X0769; 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

PS5.3 Connections in the Solar System - Space Weather
Convener: Breen, A.
Lecture Room 8
Chairperson: BREEN, A.

17:30–17:45; EGU2007-A-12129; PS3.1-1TH5O-001
Matson, D.L.
Enceladus’ Geochemistry: When? Where? (solicited)

17:45–18:00; EGU2007-A-04974; PS3.1-1TH5O-002
Enceladus’ plume: Formation and dynamics of icy grains derived from Cassini-VIMS measurements

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
Dynamics of Enceladus’ plume & particles

19:00–19:15; EGU2007-A-06780; PS3.1-1TH5O-007
Chemical signatures of Enceladus in the composition of E-ring particles

PS6 Planetary, Solar and Heliospheric Radio Emissions
Convener: Galopeau, P.
Co-Conveners: Breen, A.; Boudjada, M.
Lecture Room 8
Chairperson: N.N.

13:45–14:00; EGU2007-A-02407; PS6-1TH3O-002
Cairns, I.H.; Robinson, P.A.
Numerical simulations of coronal type III solar radio bursts

Coates, A.
Space weather effects at Titan, Venus and Mars (solicited)

18:15–18:45; EGU2007-A-11724; PS5.3-1TH5O-004
Stauning, P.
The combined Polar Cap (PCC) index as a space weather parameter. Application of the unified PCN and PCS indices.

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

19:00–19:15; EGU2007-A-03800; PS3.1-1TH5O-006
Vermeersen, B.; Kleuskens, M.; van Barneveld, L.
Effects of a Slush Layer on Tidal Deformation and Differential Rotation of Europa

17:45–18:00; EGU2007-A-04974; PS3.1-1TH5O-002
Matson, D.L.
Enceladus’ Geochemistry: When? Where? (solicited)

17:30–17:45; EGU2007-A-12129; PS3.1-1TH5O-001
Matson, D.L.
Enceladus’ Geochemistry: When? Where? (solicited)
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

15:30–16:00; EGU2007-A-07615; PS6-1TH4O-001
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
Properties of Saturn’s ionosphere derived from radio wave measurements of atmospheric lighting

16:30–16:45; EGU2007-A-08945; PS6-1TH4O-004

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 then 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
Close-in gas giant evaporation due to intense XUV radiation

9:45–10:00; EGU2007-A-10897; PS7.1-1TH1O-006
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.
Cho, J.
Large-scale motions of extrasolar giant planet atmosphere

10:45–11:00; EGU2007-A-04748; PS7.1-1TH2O-002
Staeling, 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.; Nemirovsky, 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

Convenor: Cho, J.
Co-Conveners(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
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

Conveners: Lammer, H.
Co-Conveners(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)

Conveners: Graeber, F.
Co-Conveners(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.
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 Buncefield 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
Characterizing sources of emission of radioactive Xenon with the Canadian monitoring network and atmospheric transport modeling
SM21 Research and Development in Nuclear Explosion Monitoring (co-listed in AS) – Posters

Convener: Graeber, F.
Co-Conveners: Becker, A., Kalinowski, M.
Display Time: Thursday, 16:30–16:45

Authors in Attendance: Thursday, 16:30–16:45
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
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.; Sebe, 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
Borleauan, 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.; Le Pichon, A.; Virieux, J.; Blanc, E.
Methodology 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 adjacent ensemble dispersion modelling techniques

A0384; EGU2007-A-06450; SM21-1TH5P-0384
Ferenzi, 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

END OF SESSION
SM22/MPRG18 /TS3.1 Physics and Mechanics of Earthquakes and Faulting (co-organized by MPRG & TS)

Convener: Schmittbuhl, J.
Co-Conveners(s): Mair, K., Di Toro, G.
Lecture Room 26
Chairperson: N.N.

8:30–8:45; EGU2007-A-10743; SM22/MPRG18 /TS3.1-ITH1O-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-ITH1O-002
John, T.; Rüpeke, 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-ITH1O-003
Heesakers, V.; Lockner, D.; Reches, Z.
The rupture zone of an M2 earthquake within the mechanically heterogeneous Pretorius fault-zone, Tautona mine, South Africa (NELSAM project)

Menegon, L.; Di Toro, G.; Pennacchioni, G.
Cyclic production of pseudotachylyte at the brittle/ductile transition: evidence for a large-scale fault asperity

Di Toro, G.; Nielsen, S.; Takehiro, H.; Pennacchioni, G.; Pittarello, L.; Shimamoto, M.
Anatomy of a 30 Ma old earthquake from an exhumed fault (Gole Larghe Fault, Adamello, Italy)

10:45–11:00; EGU2007-A-10201; SM22/MPRG18 /TS3.1-ITH1O-006
Sulem, J.
The role of clay in thermal pressurisation of fault during rapid slip

10:00 COFFEE BREAK
Chairperson: N.N.

Davies, T.; Rüpeke, L.; McSaveney, M.
A mechanical explanation for slip weakening

Madariaga, R.
Earthquake energy balance

12:00 END OF SESSION
Do swelling clays influence the behavior of the San Andreas Fault? New results from the San Andreas Fault Observatory at Depth (SAFOD) drill hole

Characterizing km-scale faults exhumed from seismogenic depths, Sierra Nevada, California.

Slip-weakening distance in the presence of seismic melts

Effects of fault orientation on the fault rock assemblage of exhumed seismogenic sources (Adamello, Italy)

Brittle failure and short-term ductile deformation at 500°C – the record of quartz veins beneath an exhumed low-angle normal fault

Evolution of brittle deformation and fault growth in a high porosity sandstone analogue from the Cretaceous of the Bassin du Sud-Est, Provence, France.

Brittle failure and permeability model of extensional faults in metamorphic rocks; verification by pre-grouting in sub-sea tunnels

Evidence of conductive fluid was the real cause for the generation of Gujarat earthquake (Mw=7.7) of 2001, India

Stress field around an asperity in a transform domain.

Monitoring seismic velocity changes in the Gulf of Corinth using earthquakes multiplets

Monitoring seismic velocity changes in the Gulf of Corinth using earthquakes multiplets

Seismic activity in the transition zone between central and southern Apennines (Italy)

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

Structures and processes in initial soil genesis at lignite mining spoils
8:45–9:00; EGU2007-A-10750; SSS3-1TH1O-002
Khormali, F.; Nabioilahy, 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.PJ
A functional approach to assess soil quality parameters for ecosystem services of soils

9:15–9:30; EGU2007-A-07635; SSS3-1TH1O-004
Trincher, 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.; Pétrié, 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.; Nadiropozhskaya, 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-Conveners(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 d13C and d15N 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.; Szewzyk, 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.; GUDEMIR, 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
Key sustainability issues and the spatial classification of sensitive regions in Europe
A0433; EGU2007-A-03445; SSS3-1THSP-0433
Nic-Annam, S.; Grunewald, H.; Padmore, A.; Freese, D.; Dilly, O.; Hunt, 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; SSS3-1THSP-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; SSS3-1THSP-0435
Stya, K.; Sawicka, A.
The biochemical activity in the apple-trees orchard soil after replantation

A0436; EGU2007-A-06859; SSS3-1THSP-0436
Conde, P.; Martin-Rubí, J.A.; Jiménez-Ballesta, R.
Aplication of a chemical vulnerability index to red soils in La Mancha (Central Spain)

A0437; EGU2007-A-06880; SSS3-1THSP-0437
Frouz, J.
The role of soil biota in soil formation in reclaimed and non-reclaimed post mining

A0438; EGU2007-A-07357; SSS3-1THSP-0438
Pavlú, L.; Kodesova, R.; Borukova, L.; Nikodem, A.
Various approaches to study soil degradation in a region strongly affected by acid deposition

A0439; EGU2007-A-10325; SSS3-1THSP-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; SSS3-1THSP-0440
Acosta, J.A.; Faz, A.; Martínez-Martínez, S.
Evaluation of soil characteristics and properties evolution in different soil uses under semi-arid climate, Murcia, SE Spain

A0441; EGU2007-A-10791; SSS3-1THSP-0441
Khomali, F.
Evolution, Physico-chemical and Mineralogical Properties of Saline and Sodic Loess Derived Soils of Northern Iran

A0442; EGU2007-A-11538; SSS3-1THSP-0442
Dosso, M.
Using "Cafés" in France for raising awareness about soil

A0443; EGU2007-A-11540; SSS3-1THSP-0443
Dell’Abate, M.T.; Benedetti, A.; Calza, G.
Communication in soil science: towards a specialized or an holistic approach?

A0444; EGU2007-A-11642; SSS3-1THSP-0444
Ribeiro, A.L.; Longo, R.M.; Melo, W.J.; Brandao, J.C.B.
Microbial biomass, desidrogenasy activity and nutrient absorption in a mining soil in the Amazon area after the intrduction of Green Manure

A0445; EGU2007-A-00575; SSS4-1THSP-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; SSS4-1THSP-0446
Szajdak, L.; Brandyk, T.; Szatyłowicz, J.
Physic-chemical properties of mucks from Biebrza basin

A0447; EGU2007-A-03464; SSS4-1THSP-0447
Szajdak, L.; Szczepański, M.; Bogacz, A.
The effect of peatland on limiting nitrogen expand in agricultural landscape

A0448; EGU2007-A-07519; SSS4-1THSP-0448
Maryganova, V.; Szajdak, L.
Chemical structure and hydrophobic and hydrophilic properties of humic acids extracted from peat soil with different reagents

A0449; EGU2007-A-07750; SSS4-1THSP-0449
Noormets, M.; Szajdak, L.; Kolié, R.; Tontiarte, T.
Soil organic matter and its quality some biochemical aspects on vaccinaceae growth areas on exhausted milled peat area

A0450; EGU2007-A-03568; SSS4-1THSP-0450
Matyka-Szarzynska, D.; Sokolowska, Z.; Warchulska, P.; Szajdak, L.
Effect of phosphates on release of dom from mucks*

A0451; EGU2007-A-10033; SSS4-1THSP-0451
Sokolowska, S.; Sokolowska, Z.
Adsorption of gases on peat soils: the role of energetic and geometric heterogeneity

A0452; EGU2007-A-07176; SSS4-1THSP-0452
Gierlach-Hladon, T.; Szajdak, L.
Physico-chemical properties of humic acids isolated from high peat

A0453; EGU2007-A-11200; SSS4-1THSP-0453
Kurzawski, G.; Biernacka, E.; Szatyłowicz, J.; Gnataowski, T.
Water sorptivity of peat and gyttja soils

A0454; EGU2007-A-11207; SSS4-1THSP-0454
Biernacka, E.; Kurzawski, G.; Szatyłowicz, J.; Olesczuk, R.
Analysis of gyttja soils volume changes during drying process

A0455; EGU2007-A-03454; SSS4-1THSP-0455
Arczynska-Chudy, E.; Jezierras-Madzian, M.; Goldyn, H.
The role of hydromacrophytes in the creation of organic sediments in a small midfield pond

A0456; EGU2007-A-02646; SSS4-1THSP-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; SSS4-1THSP-0457
Kotowska, U.; Warchulska, C.; Witkowska-Walczak, B.; Wlodarczyk, T.; Skierucha, W.
Wastewater purification by an organic soil and plants

A0458; EGU2007-A-03823; SSS4-1THSP-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; SSS4-1THSP-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
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-Conveners: Miano, T., Sequi, P., Ciavatta, C.
Lecture Room 33
Chairperson: N.N.

Pignatelot, 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, À.
Diffusion studies with a phenylurea herbicide and a complex rhizoeuxadate 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, É.; 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-Conveners: 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.

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.; Chimidordzhieva, 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

A0465; EGU2007-A-00411; SSS8-1TH5P-0465
Zaccone, 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
Drozdz, J.; Lobczowski, W.; Weber, J.
Dissolved organic carbon (DOC) in pozdols 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, J.; Kretzschmar, R.
Fractionation of humic acid by cation-induced coagulation

A0470; EGU2007-A-04490; SSS8-1TH5P-0470
Ferrihydrite formed in the presence of dissolved soil organic matter

A0471; EGU2007-A-11170; SSS8-1TH5P-0471
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
Zaccone, 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, C.M.
Sorption of Cr(III) on mixed montmorillonite Al-Fe humic acid complexes

A0475; EGU2007-A-02782; SSS8-1TH5P-0475
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

A0476; EGU2007-A-09321; SSS8-1TH5P-0476
Maier, U.; Grathwohl, P.; Schroll, R.; Zsolnay, À.
Organic and inorganic chromium species at the soil-root interface

A0477; EGU2007-A-11117; SSS8-1TH5P-0477
Cocozza, C.; Miano, T.M.; Zaccone, C.; Cheburkin, A.; Shotyk, W.; Miano, T.M.
Chromium depletion in a Sphagnum-peat core and related humic acids.

A0478; EGU2007-A-09551; SSS8-1TH5P-0468
Ellerbrock, R.H.; Gerke, H.H.
Interactions between SOM composition, polyvalent cations and clay content investigated by FTIR

A0479; EGU2007-A-06003; SSS8-1TH5P-0469
Christl, J.; Kretzschmar, R.
Fractionation of humic acid by cation-induced coagulation
SSS11 Hydropedology: A synergistic tool to shape EU guidelines for water and soil (co-listed in HS)

Convener: Bouma, J.
Co-Conveners: 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.
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.
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.
Validating a hydrological classification of European soils with river discharge data

16:45–17:00; EGU2007-A-09567; SSS11-1TH4O-006
Lin, H.
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-Conveners: Lin, H., Romano, N.
Display Time: Thursday, 08:00–19:30

XY0784; EGU2007-A-00624; ST6-1TH3P-0784
Cornéliussen, G.; Halberg, F.; Otsuka, K
Do heliogeomagnetics override the effect of a harsh winter? No calendar year but non-photic transyear and cishalfyear components characterize sudden cardiac death (SCD) in Minnesota

XY0785; EGU2007-A-01687; ST6-1TH5P-003
Mirmomeni, M.; Lucas, C.; Nadjar Araabi, B.
Long-term prediction of solar activity using spectral analysis and multi input multi output neuro-fuzzy models

Solar-Terrestrial Sciences

ST4 Oscillations of the solar interior and atmosphere

Convener: Ballai, I.
Co-Conveners: Gizon, L.
Lecture Room 7
Chairperson: GIZON, L.

17:30–18:00; EGU2007-A-06837; ST4-1TH5O-001
Shapiro, N.M.
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-04109; ST4-1TH5O-004
Cameron, R.
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-Conveners: 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
Cornéliussen, G.; Halberg, F.; Otsuka, K
Do heliogeomagnetics override the effect of a harsh winter? No calendar year but non-photic 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
XY'0786; 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

XY'0787; 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

XY'0788; EGU2007-A-02571; ST6-1TH3P-0788
SCHRODER, W.
Solar Wind auroras and comets during the Maunder-minimum

XY'0789; EGU2007-A-03625; ST6-1TH3P-0789
Flatjord, J. R.; Østgaard, N.
The characteristics of theta aurora and implications for its production mechanisms

XY'0790; EGU2007-A-05520; ST6-1TH3P-0790
Komitov, B.
The Sun’s variability during last 2200 years by historical data: The solar wind and sunspots

XY'0791; EGU2007-A-06538; ST6-1TH3P-0791
Demetrescu, C.; Dobrica, V.
Long-term variations in the external ingredients of the geomagnetic field

XY'0792; 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

XY'0793; EGU2007-A-04547; ST6-1TH3P-0793
On the fractal nature of the magnetic field energy density in the solar wind

XY'0794; EGU2007-A-07046; ST6-1TH3P-0794
Rezaei Youssefi, M. M.; Vahabie, H.; Falahi, M.; Lucas, C.; Nadjar Araabi, B.
Input selection based on mutual information for solar activity prediction

XY'0795; EGU2007-A-09127; ST6-1TH3P-0795
Barkin, Yu.V.
Inversion model of the Sun shape varying

XY'0796; EGU2007-A-00275; ST6-1TH3P-0796
Dimitrijevic, M.S.
Variations of the Solar irradiation of the Earth and Milutin Milankovic

XY'0797; EGU2007-A-10986; ST6-1TH3P-0797
Halberg, F.; Cornéllissen, G. H.; Sothern, 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?

XY'0798; 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

XY'0799; 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
Retinò, A.; Sundkvist, D.; Vaivads, A.; Mozer, F. S.; Andrie, 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
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
Meeting Programme

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-Wehrlin, 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

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

A proposal for multiscale studies of plasma transport and turbulence

17:00 COFFEE BREAK

17:30–18:00; EGU2007-A-02820; ST8-1TH5O-001

Chairperson: FUJIMOTO, M
The role of SuperDARN in global and multi-scale studies of dynamics of nonlinear waves in the vicinity of the terrestrial bow shock

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

Energy conversion features observed by Cluster in the plasma sheet

8:45–9:00; EGU2007-A-08004; ST11-1TH1O-002

A proposal for multiscale studies of plasma transport and turbulence

9:00–9:15; EGU2007-A-09382; ST11-1TH1O-003

Milan, S. E.; Provan, G.; Hubert, B.
Magnetic flux transport in the Dungey cycle: A survey of dayside and nightside reconnection rates

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 aura.

9:30–9:45; EGU2007-A-03872; ST11-1TH1O-005

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-Conveners(s): Aruliah, A.
Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 10:30–12:00
Posters 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.; Brashiladze, 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.; Buchert, S.; Kistler, L.M.; André, M.; Rème, H.
Role of inductive electric fields and currents in dynamical ionospheric situations
XY0806; EGU2007-A-01926; ST12-1TH2P-0806
Kozlovsky, A.
Magneto-spheric interchange instability with non-linear ionospheric feedback

XY0807; EGU2007-A-01932; ST12-1TH2P-0807
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.
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
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 (SEA) 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
Nylund, I.; Stadsnes, J.; Soraas, 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.; Mili涅vsky, G.; Zanimonsky, Ye.
Magnitized 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.; Ianzhura, 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.; Lefevrue, 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.; Koubka, D.; Sáuli, 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-10191; ST12-1TH2P-0832
Steinbach, P.; Ferencz, Cs.; Lichtenberger, J.J.; Lefevrue, 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: FULLERKUG, M.

XY0834; EGU2007-A-00306; ST13-1TH4P-0834
Hanuš, C.; Fullekrug, M.; Blanc, E.; Lefeuve, F.
Towards a global research community in electromagnetic coupling of the atmosphere with near-Earth space

XY0835; EGU2007-A-08389; ST13-1TH4P-0835
Charrión, N.; Neubert, T.
2D axisymmetrical particle modelling of the production of thermal runways 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.; Gopalaswamy, N.; Yashiro, S.
The space weather forecast using a cone model for halo CMEs

XY0840; EGU2007-A-05038; ST13-1TH4P-0840
Michalek, G.; Gopalaswamy, 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
Lukianovas, R.; Kozlovsks, 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
Malsheva, O.
Results of using the IRI model over Inskip-Rostov path

XY0847; EGU2007-A-02275; ST14-1TH3P-0847
Tomasic, 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 DEMETAR satellite

XY0851; EGU2007-A-05247; ST14-1TH3P-0851
Moshkova, V.; Polekh, N.; Karv, K.; 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 Learnmonth 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): Litike, 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.; Fakhroobadi, 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.; Berë, M.
Applicability of new technologies in order to enlarge kelebijia 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
Imaging of salt-tectonic related structures – a comparison of velocity model building techniques
A0493: EGU2007-A-05153; SSP3-1TH5P-0493
Gotnikh, R. P.; Pisolitskiy, B. I.; Plotnikov, 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.; Götzte, 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.; Götzte, H.-J.; Rabbel, W.; Schlesinger, A.
Pre-Penninic structures in the German North Sea area
A0499: EGU2007-A-09282; SSP3-1TH5P-0499
Thybo, H.; Nielsen, C.; Suvorov, V.D.; Percchuc, E.; Gadzinski, E.
Baikal Rift Zone: Intra-cratonic rifting without Moho uplift
A0500: EGU2007-A-10746; SSP3-1TH5P-0500
Dubille, M.; Lave, J.
Rapid large 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)
Convenor: McKenzie, J.
Co-Conveners: 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 carbonite 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)
Conveners: Eisenhauer, A.
Co-Conveners: Immenhauser, A., Nägler, T.
Lecture Room 20 (N)
Chairperson: N.N.
10:30–10:45; EGU2007-A-01760; SSP12/BG9-1TH2O-001
Time Series delta26Mg Analysis in Speleothem Calcite: kinetic versus equilibrium Fractionation, Comparison with other Proxies and Implications for paleoclimate 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.; Nigler, 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

12:00 END OF SESSION

SSP12/BG9 New proxies in sedimentary geochemistry (co-organized by BG, co-listed in IG & CL) – Posters
Conveners: Eisenhauer, A.
Co-Conveners: Immenhauser, A., Nägler, T.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 13:30–15:00
Poster Area Hall A
Chairperson: N.N.
Meeting Programme

**A0501:** EGU2007-A-10849; SSP12/BG9-1TH3P-0501

Liebertrau, V.; Rüegger, A.; Fietke, J.; Eisenhauer, A.; Flögel, S. Stable strontium (delta88/86Sr) 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.; Nügler, T.F.; Hippler, D.; Logan, A. & #948;18O, & #948;13C and & #948;44/40Ca 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 & #948;44/40Ca, Mg/Ca and & #948;18O 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.; Nügler, 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


**A0507:** EGU2007-A-02817; SSP12/BG9-1TH3P-0507

Matthews, A.; Erel, Y.; Listovskiy, 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)

**A0509:** EGU2007-A-11251; SSP12/BG9-1TH3P-0506

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; SSP12/BG9-1TH5P-0510

Conradi, F.A.; Goetz, A.; Display Time: Thursday, 08:00–19:30

**A0511:** EGU2007-A-02355; SSP12/BG9-1TH5P-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; SSP12/BG9-1TH5P-0512

Skupien, P. Upper Cretaceous dinoflagellates and palaenvironmental change of the Silesian basin (Outer Western Carpathians)

**A0513:** EGU2007-A-00931; SSP12/BG9-1TH5P-0513


SSP17/BG11/CL47 Environmental perturbations during the Palaeozoic-Mesozoic interval: Organic geochemical and palynological proxies (co-organized by BG & CL)

Conveners: Heimhofer, U.
Conveners: Götz, A.
Display Time: Thursday, 08:00–19:30

**Authors in Attendance: Thursday, 17:30–19:00**

Poster Area Hall A
Chairperson: GOETZ, A.E.
SSP18 Paleo-environmental indicators in carbonate systems (co-sponsored by IAS)

Convener: Mutti, M.
Co-Conveners: Mutterlose, J.
Lecture Room 32
Chairperson: N.N.
17:30–17:45; EGU2007-A-09883; SSP18-1TH5O-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; SSP18-1TH5O-002
Giles, K.; Drake, J.
Linked hyperpycnal flows and Heterozoan reefs as indicators of wetter climates in La Popa Basin, NE Mexico

18:00–18:15; EGU2007-A-09624; SSP18-1TH5O-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; SSP18-1TH5O-004
Mirza, H.; 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; SSP18-1TH5O-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-Conveners(s): Mutterlose, J.
Lecture Room 32
Chairperson: N.N.
8:30–8:45; EGU2007-A-00890; SSP21-1TH1O-001
Tropical Climate Variability during the Cretaceous Thermal Maximum (solicited)

8:45–9:00; EGU2007-A-05441; SSP21-1TH1O-002
Pucéat, E.; Lécuyer, C.; Donnadieu, Y.; Naveau, P.; Capetta, H.; Ramstein, G.; Huber, B.T.; Kriwet, J.
Fish tooth d18O revising Late Cretaceous meridional upper ocean water temperature gradients

9:00–9:15; EGU2007-A-05904; SSP21-1TH1O-003
Aridification of interior Asian during Late Cretaceous

9:15–9:30; EGU2007-A-03950; SSP21-1TH1O-004
Deconinck, J.F.; Fesneau, C.; Pellenard, P.; Pucéat, E.
Aerolvolcanism and cold intervals during the Cretaceous: a causal link?

9:30–9:45; EGU2007-A-05499; SSP21-1TH1O-005
Price, G.D.; Numm, E.V.
A sedimentological and isotopic evaluation of late Jurassic - early Cretaceous Arctic climates

9:45–10:00; EGU2007-A-02479; SSP21-1TH1O-006
Hay, W.
The modern ocean is a poor analog for the Cretaceous

10:00 COFFEE BREAK

Convener: N.N.
10:30–10:45; EGU2007-A-03017; SSP21-1TH2O-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; SSP21-1TH2O-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; SSP21-1TH2O-003
Hart, M.B.; Watkinson, M.P.; Koutsoukos, E.A.M.
The mid-Cretaceous fragmentation of Gondwana

11:15–11:30; EGU2007-A-03688; SSP21-1TH2O-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; SSP21-1TH2O-005
Kiel, S.
Cretaceous methane seeps and their fauna: distribution, evolutionary patterns, and paleoecologic implications

11:45–12:00; EGU2007-A-04783; SSP21-1TH2O-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-Conveners(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.
Nano fossil 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 Meso zoe- 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.
Biotrastigraphy 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 Vercors 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 nanofossil evidence

A0522; EGU2007-A-08444; SSP21-1TH5P-0522
Alslen, 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, L.; Caron, M.; Leckie, R.M.
Status of the planktonic foraminiferal species Ticinella bejaouanensis 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
Gadzicka, E.; Ploch, I.; Smoleń, J.
Lower Cretaceous palaeoenvironmental 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.

Tectonics and Structural Geology

TS8.3 Tectonics and magmatism during continental rifting and break-up
Convener: Perez-Gussinye, M.
Co-Conveners(s): Huismans, R., Shillington, D.
Lecture Room 5
Chairperson: N.N.

13:30 – 13:45; EGU2007-A-07976; TS8.3-1TH3O-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; TS8.3-1TH3O-002
Trumbull, R.B.; Reid, D.L.; deBeer, C.; van Ackeren, 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; TS8.3-1TH3O-003
Virgu, 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-00700; TS8.3-1TH3O-004
Magmatic rifting recorded in the morphology of normal faults, Ethiopia.

14:30 – 14:45; EGU2007-A-03604; TS8.3-1TH3O-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; TS8.3-1TH3O-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)
The evolution of collisional mountain belts as a function of the geometry of pre-existing weak zones within the mantle. The role of inheritance in the mantle beneath the Iberia-Newfoundland rift system (solicited).

The extension discrepancy at non-volcanic margins: depth-dependent stretching or unrecognised faulting? Impact of diapirism on the style of shortening in the eastern Betic Cordillera: two balanced cross-sections from the External Zone.

Localisation of shortening in numerical models of basin development and evolution of geological architectures – Posters.

Reworking of an ancient lithospheric anisotropy during the Permo-Triassic extension in southwestern South America.

Multiple reactivation of pre-existing fabrics in a basement shear zone: an example from Gavilgarh-Tan Shear Zone, central India.

Multiple reactivation of pre-existing structures in a basement shear zone: an example from Gavilgarh-Tan Shear Zone, central India.

The role of pre-existing structures for paleostress analysis – a case study from the Central European Basin System (CEBS).

Controlling styles of contractional deformation in the Apennine fold-and-thrust belt and in the Mid-Adriatic Ridge.

The role of pre-existing fabrics in a basement shear zone: an example from Gavilgarh-Tan Shear Zone, central India.

Impact of diapirism on the style of shortening in the eastern Betic Cordillera: two balanced cross-sections from the External Zone.

The evolution of collisional mountain belts as a function of the geometry of pre-existing weak zones within the lithosphere.

Multiple reactivation of pre-existing fabrics in a basement shear zone: an example from Gavilgarh-Tan Shear Zone, central India.

Development of a monocline in the northeast Sylhet Trough along the Daiku Fault, NE Bangladesh.
TS10.2 Tectonic evolution of Tethys in the Eastern Mediterranean Region

Convener: KOLLER, F.
Co-Conveners (s): PARLAK, O., Robertson, A.
Lecture Room 5 (I)
Chairperson: ROBERTSON, AHF.

8:30–8:45; EGU2007-A-05923; TS10.2-1TH1O-001
Chairperson: ROBERTSON, AHF.
Lecture Room 5 (I)
Co-Convener(s): PARLAK, O., Robertson, A.
Convener: KOLLER, F.

10:00 COFFEE BREAK

Chairperson: KOLLER, F.

10:30–10:45; EGU2007-A-00407; TS10.2-1TH1O-003
Chairperson: KOLLER, F.
Lecture Room 5 (I)
Co-Convener(s): PARLAK, O., Robertson, A.
Convener: KOLLER, F.

11:30–11:45; EGU2007-A-02987; TS10.2-1TH2O-005
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-Conveners (s): Agard, P., Tirel, C., Edwards, M.
Lecture Room 5 (I)
Chairperson: N.N.

Brun, J.-P.; Faccenna, C.
Slab Roll back, back-arc extension and exhumation of HP rocks in the eastern-Central Mediterranean (solicited)

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
Tertiary SSW directed crustal extension in the Western Cyclades: A new kinematic domain in the Aegean region (Greece)

Endrun, B.; Lebedev, S.; Meier, T.
Stratification of seismic anisotropy in the Aegean lithosphere and relation to deformation

Kiratzi, A.
Distributed earthquake faulting in the Aegean Sea and kinematic analysis of strong events (solicited)

Evidence for gravitational mass wasting potentially caused by earthquakes in the Cretan Sea

15:00 COFFEE BREAK

Chairperson: N.N.

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; Kuscu, 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.; Cemen, I.; Baker, C.; Kohn, M.; Diniz, E.; Gönçüoğlu, M.; Hançer, M.
Mid-Miocene Magmatism and Extensional Dynamics within the Menderes Massif, Western Turkey

Hasözbek, A.; Erdoðan, B.
Geologic and petrologic patterns of post-collisional magmatic activity in the northern Menderes Massif (Àlaàçam 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.

Hubert-Ferrari, A.; Van Der Woerd, J.; King, G.; Villa, I.; Armijo, R.
New constraints on the Karliova Triple Junction between Arabia, Eurasia and Anatolia

17:45–18:00;  EGU2007-A-05990; TS10.5/GD12/SM19-1TH5O-002
Oberhänsli, R.
Petrologic constraints along the Arabian Promontory (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)

Omranì, J.; Agard, P.; Whitechurch, H.; Jolivet, L.; Prouteau, G.
Subduction processes below Zagros: New constraints from the magmatic evolution of the internal zones

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.; Djamouy, H.; 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: BLOESCHL, 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
## MEETING PROGRAMME

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MEETING PROGRAMME

FRIDAY

Educational Symposia

ES3 Integrating Activities in Environmental Science Education - Approaches and Perspectives
Convener: Schuepbach, E.
Co-Conveners: 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.; Strappaggetti, 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 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
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.; Lembeck, 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.; Wohlfarth, 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.; Boiger, 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

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Atmospheric Sciences

AS1.06 Variability and predictability of the coupled stratosphere-troposphere system (co-listed in CL)
Conveners: Charlton, A. 
Co-Conveners: Stephenson, D., Christiansen, B.
Lecture Room 1 (G)
Chairperson: CHARLTON, A.
8:30–8:45; EGU2007-A-08137; AS1.06-1FR1O-001
Scaife, AA
Influence of the stratosphere on surface winter climate (solicited)
8:45–9:00; EGU2007-A-05611; AS1.06-1FR1O-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; AS1.06-1FR1O-003
Hooghoudt, J.-O.; Barkmeijer, J.
The Stratosphere-Troposphere connection explored by Singular Vectors
9:15–9:30; EGU2007-A-10998; AS1.06-1FR1O-004
Kunz, T.; Fraedrich, K.; Greatbatch, R. J.
Decay timescale of polar stratospheric temperature anomalies
9:30–9:45; EGU2007-A-04554; AS1.06-1FR1O-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; AS1.06-1FR1O-006
Simpson, I; Haigh, J; Blackburn, M
Solar influence on stratosphere-troposphere dynamical coupling
10:00–10:15; EGU2007-A-07675; AS1.06-1FR1O-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
Conveners: Charlton, A.
Co-Conveners: 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.
14:45–15:00; EGU2007-A-06854; AS1.11-1FR3O-0006
Martin, B. T.; Pigott, 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-0001
Harlander, U.
Do smooth non-viscous atmospheric internal wave modes exist?

15:45–16:00; EGU2007-A-07728; AS1.11-1FR4O-0002
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-0003
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-0004
Klaassen, G.
Testing Lagrangian theories of internal wave spectra

16:30–16:45; EGU2007-A-09303; AS1.11-1FR4O-0005
Rump, O.J.; Esler, J.G.; Johnson, E.R.
Transcritical, rotating flow over topography

16:45–17:00; EGU2007-A-09992; AS1.11-1FR4O-0006
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
Zulicke, 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 with idealised and realistic bathymetry

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.; Llamelo, 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.; Llamelo, P.; Menéndez, C.; Schmidt, T.; Wickert, J.
Gravity wave analysis in Mendoza (Argentina), from GPS radio occultation data and MM5 simulations

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
Frehlich, K.; Jacob, 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.; Davidian, I.; Belberov, Z.; Valcheva, N.
Feasibility of wind wave simulations in the Black Sea 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)
Display Time: Friday, 08:00–19:30
Chairperson: JANICOT, S

08:30–9:00; EGU2007-A-11547; AS1.14-1FR4O-0001
Redelsperger, J-L.; Thornicroft, 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

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

Pospichal, B.; Crewell, S.
Diurnal cycle of the inter-tropical discontinuity over central Benin derived from a set of ground-based instruments

11:30–11:45; EGU2007-A-01403; AS1.14-1FR2O-003
Formenti, P.
Highlights on aerosol properties and distribution in western Africa based on observations conducted during the special observation periods of AMMA (solicited)

11:45–12:00; EGU2007-A-09100; AS1.14-1FR3O-003
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

12:00–12:15; EGU2007-A-10219; AS1.14-1FR3O-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

12:15 LUNCH BREAK

Chairperson: MARTICORENA, B

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

13:45–14:00; EGU2007-A-07536; AS1.14-1FR4O-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)

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

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-01751; AS1.14-1FR4O-003
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.; Hougnignon, E.; Schmidt, K.
An AMMA-SOP2 case study of a small MCS over Benin: Implications for Lightning NOx production

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
Meeting Programme

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.
BTEX 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.

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 Guayanas during the GABRIEL Field Campaign

14:00–14:15; EGU2007-A-07084; AS3.01-1FR3O-003
Butler, T.M.; Fischer, H.; Harder, H.; Jereckel, 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
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
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-Alesund, Svalbard (Arctic)

XY0057; EGU2007-A-09217; AS3.01-1FR1P-0057
Affif, 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
Reactive gas measurements at the Cape Verde Atmospheric Observatory

XY0059; EGU2007-A-07057; AS3.01-1FR1P-0059
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
Eerdekens, G.; Williams, J.; Klüpfel, T.; Yassaa, N.; Ganzewald, 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 HOx chemistry

XY0065; EGU2007-A-06602; AS3.01-1FR1P-0065
Nørgaard, 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
Hendricks, F.; Fayt, C.; Hermans, C.; Pinardi, G.; Van Roozendael, 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
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.; Dóbé, S.; Bérces, T.; Mátra, M.
Laboratory studies on the atmospheric photochemistry of acetone and methyl-ethyl-ketone

XY0072; EGU2007-A-00906; AS3.01-1FR1P-0072
O the Oxidation of acetic acid isopomers 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
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, J.G.; Adame, J.A.
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-Molto, 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
Zieres, H.; Schlager, H.; Stock, P.; Schumann, U.; Brenninkmeijer, C.A.M.; Sleemr, F.; Zahn, A.; Herrmann, M.
Large scale distribution of nitrogen oxides in the UTLS -Results of the NO and NOy measurements during CARIBIC experiments

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-Conveners: Schultz, M.
Lecture Room 12 (E2)
Chairperson: SCHULTZ, M.G.; STRUZEWSKA, J.

XY0089; EGU2007-A-00794; AS3.04-1FR1O-001
Richter, A.; Heckel, A.; Lee, C.; Wittrock, F.; Burrows, J. P.
One decade of SO2 measurements from space

XY0090; EGU2007-A-05091; AS3.04-1FR1O-002
Granier, C.; Mieville, A.; Liouasse, C.; Guillaume, B.; Greogre, J.-M.; Mouillot, F.
Emissions of gases and aerosols resulting from biomass burning during the 1900-2003 period

XY0091; EGU2007-A-04077; AS3.04-1FR1O-003
Carbon monoxide observations from ground stations over France and Western Europe: long trends in the free troposphere

XY0092; 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

XY0093; EGU2007-A-02101; AS3.04-1FR1O-005
Petersen, A. K.; Wärneke, T.; Velasco, V.; Notholt, J.; Frankenberg, C.; Meirink, F.; Bergamaschi, P.; Schrem, O.
Ground-based solar absorption measurements of CH4, CO, C2H6, C2H2 and HCN in the tropics

XY0094; EGU2007-A-07145; AS3.04-1FR1O-006
Allen, G.; THE ACTIVE TEAM
Boundary layer aerosol and trace gas climatologies from ACTIVE

10:00 ENDE OF SESSION
AS3.04 Tropospheric Composition: Variability and Trends – Posters

Convener: Tarasova, O.
Co-Conveners(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
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.; Zapevalov, 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.; Ugucceoni, 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.; Kuzevnetov, 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
Carbon gases in the London air - the 2000–2006 record

XY0091; EGU2007-A-08017; AS3.04-1FR2P-0091
Artuso, F.; Chiavolini, 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
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
Schmidt 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
ACE remote-sensing of NOy in the troposphere: first global distribution

XY0102; EGU2007-A-06492; AS3.04-1FR2P-0102
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 isotopologues in the frame of the AGACC project from ground-based FTIR observations performed at the Jungfraujoch

XY0104; EGU2007-A-06501; AS3.04-1FR2P-0104
Source apportionment of PM2.5 organic aerosol over Europe: primary/secondary, natural/anthropogenic, fossil/biogenic origin

XY0105; EGU2007-A-08815; AS3.04-1FR2P-0105
Vrekoussis, M.; Wittrock, F.; Richter, A.; Burrows, J.P.
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
AS3.13 Polar Ozone – Posters
Convener: Braathen, G.

17:00 END OF SESSION
Biogeosciences

BG1.01 From biogenic primary exchange to atmospheric fluxes of reactive trace gases – Posters

Convener: Kesselmeier, J.
Co-Conveners: 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.; Vagano, 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.; Rueskanen, T. M.; Kajos, M.
Li7, H.; Vesala, T.; Kulmala, M.
Factors governing spatial and temporal variations of atmospheric carbonyl sulfide

BG0006: EGU2007-A-07944; BG1.01-1FR3P-0006
Dlugi, R.; Berger, M.; Zelger, M.
Energy and Mass Transfer of Chemical Reactive Compounds Above and Inside Tall Vegetation

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 theJPAC06 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; EGU2007-A-09773; BG1.01-1FR1O-006
Yantosca, R
Factors governing spatial and temporal variations of atmospheric carbonyl sulfide

10:45–11:00; EGU2007-A-05742; BG1.01-1FR2O-002
Suntharalingam, P.; Kettle, A.; Montzka, S.; Jacob, D.

11:00–11:15; EGU2007-A-00647; BG1.01-1FR2O-003
Farmer, D.K.; Wooldridge, P.J.; Cohen, R.C.

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
BG0007; EGU2007-A-03326; BG1.01-1FR3P-0007
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.; Spur, 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
Boisard, C.; Dutot, A.; Chervier, F.
Assessment of biogenic isoprene emission variations

BG0011; EGU2007-A-03884; BG1.01-1FR3P-0011
Volatiles organic compound emissions from Siberian larch

BG0012; EGU2007-A-03873; BG1.01-1FR3P-0012
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.; Klammer, 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 NOx emissions from soil

BG1.02 Methane fluxes from permafrost ecosystems in relation to climate change

Convener: van Huissteden, K.
Co-Conveners: Christensen, T.
Lecture Room 20 (N)
Chairperson: N.N.
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
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-Conveners: 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
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

BG1.08 Biogeochemistry and ecohydrology of arid and semi-arid ecosystems (co-listed in HS) – Posters
Convener: Meixner, F.
Co-Conveners: 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.; Karluk, 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.; Wadhams, J.; Wainwright, J.; Parsons, A.
Factors controlling CO2 efflux under different land uses in a Mediterranean semi-arid area of Southeast Spain

BG0032; EGU2007-A-04832; BG1.08-1FR4P-0032
Almagro, M.; Sánchez, J.; López, J.; Boix-Fayos, C.; Albaladejo, J.; Martínez-Mena, M.
Biogenic NO production and consumption in natural and cultivated soils from a cold desert in northwest China

BG0033; EGU2007-A-04794; BG1.08-1FR4P-0033
m.b. Dalenda, m.b. Mohamed, g. M.; b. Salem, b.S; l.Nechida, l.N; g.Ali, g.A
Factors controlling CO2 efflux under different land uses in a Mediterranean semi-arid area of Southeast Spain

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-Conveners: 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
Pailleret, 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)

BG6.05 Biogeochemical interactions in chemosynthetic deep-sea ecosystems: methods, tools and strategies (co-listed in OS) – Posters

Convener: Le Bris, N.
Co-Conveners(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.; Colaco, 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
Liberinova, 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 mussels?

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.; Zhunden, 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.; Thiébaut, 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 shrimp mounds

BG0048; EGU2007-A-11303; BG6.05-1FR2P-0048
Sarradin, 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.; Donval, P.; Hamon, M.; Sudreau, J.P.; Le Gall, C.; Sarradin, P.M.
CHEMINI: CHEmical MINaturised analyser, a new generation of chemical analysers for marine applications

BG0050; EGU2007-A-11338; BG6.05-1FR2P-0050
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.; DUSTA, J.P.
Development of a new in-situ methane sensor for deep-sea studies

BG07.01/PS7.3/PS1.1 Astrobiology, Mars and robotic exploration (co-organized by PS)
Convener: Westall, F.
Co-Conveners(s): Vago, J., Muller, C., Toporski, J.
Lecture Room 19
Chairperson: WESTALL, F.
Lindsay, J.; Clemett, S.
Biogenesis on Earth and the search for life on Mars


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


14:45–15:00; EGU2007-A-11137; BG7.01/PS7.3/PS1.1-1FR3O-006 Kminek, G.; Protecting the scientific integrity of Mars


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
Climate: Past, Present, Future

CL4 Assessment of climate events in lake sediments

Convener: Fagel, N.
Co-Conveners: Loutre, M.
Lecture Room 14
Chairperson: N.N.


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.; Zerbóni, A.
Holocene lacustrine sedimentation in the Edeyen of Murzuq (SW Libya)

11:00–11:15: EGU2007-A-09500; CL4-1FR2O-003

Kwicień, O.; Arz, H. W.; Lamy, F.; Plessen, B.; Dulska, P.; Haug, G. H.
Glacial changes in atmospheric circulation pattern over the Mediterranean documented by a Black Sea precipitation record


Yang, T.-N.; Wei, K.-Y.; Lee, T.-Q.; Chen, H.-F.; Song, S.-R.; Chiang, H.-W.; Chen, Y.-G.; Chen, M.-P.
Precipitation variability in subtropical southern Taiwan during the last 21,000 years

11:30–11:45: EGU2007-A-06968; CL4-1FR2O-005

Escala, M.; Oberhüsli, H.; Rosell-Melé, A.
Surface water temperature (TEX86) record from Lake Baikal for the last climatic cycle

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, F.; Yung, K.L.; Ng, T.C.
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

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 probe 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
Meeting Programme

11:45–12:00; EGU2007-A-06679; CL4-1FR2O-006
Valero-Garcés, B.; Gonzalez-Samperiz, P.; Morellon, M.; Rico, M.; Moreno, A.; Navas, A.; Machin, J.; Mata, P.; Rubio, JC
The Villarquemado Lacustrine Record (Iberian Range, Spain, Teruel): Climate and Tectonics for the last 100 ky 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
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
Titanium concentration in lake sediments as a measure for Younger Dryas cirque glacier activity, Western Norway

XY0130; EGU2007-A-02639; CL4-1FR3P-0130
Martin-Puertas, C.; Valero-Garcés, B.L.; Mata, M.P.; Moreno, A.
Geochemical data (XRF) of recent lacustrine sediments of Zootar 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 paleoclimatic 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
Loure, 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.; Giguet-Covex, C.; Arnaud, F.; Chapron, E.
Climatically controlled sediment deposition patterns in a high alpine lake (Lake Anterne, French Alps)

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.; Catagay, 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 Pianico 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., Yilmaz, Y., Algan, O., Lericolais, G.

XY0141; EGU2007-A-00020; CL12/CL41-1FR1O-002
MORIGI, C.; PANIN, N.; MINEREAU, A.; GUICHARD, F.; LERICOLAIS, G.
8:30–8:45; EGU2007-A-00020; CL12/CL41-1FR1O-001
LERICOLAIS, G.; MINEREAU, A.; GUICHARD, F.; MORIGI, C.; PANIN, N.
Late-Glacial Holocene sediments (sapropels) - most important evidence for the FLOOD

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-00020; CL12/CL41-1FR1O-003
Sedimentation on the SW Shelf of the Black Sea during the Late Pleistocene Holocene

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
Grygar, T.; Gonzalez-Samperiz, P.; Morellon, M.; Zonar lake (Southern Spain)
Geochemical data (XRF) of recent lacustrine sediments of Zootar lake (Southern Spain)

10:00–10:15; EGU2007-A-00852; CL12/CL41-1FR1O-003
Charlier, B.; Fagel, N.; Bertrand, S.; Bricaud, A.; Meynadier, L.; Loutre, M.
An evaluation of the interactive role of the Mediterranean Sea for short-term climate variability of the nearby regions

10:15–10:30; EGU2007-A-00852; CL12/CL41-1FR1O-004
Loutre, M.; Tjallingii, R.; Loutre, M.; Loutre, M.; Tjallingii, R.; Loutre, M.
Climate and Tectonics for the last 100 kyr in the NE Spain region of the Villarquemado Lacustrine Record (Iberian Range, Spain, Teruel): Climate and Tectonics for the last 100 ky in NE Spain

11:45–12:00; EGU2007-A-06679; CL4-1FR2O-006
Valero-Garcés, B.; Gonzalez-Samperiz, P.; Morellon, M.; Rico, M.; Moreno, A.; Navas, A.; Machin, J.; Mata, P.; Rubio, JC
The Villarquemado Lacustrine Record (Iberian Range, Spain, Teruel): Climate and Tectonics for the last 100 ky in NE Spain

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**10:00–10:15; EGU2007-A-06150; CL12/CL41-1FR2O-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-03675; CL12/CL41-1FR2O-005**
Baldi, M.; Gaetani, M.; Dalu, G.A.
On the Pliocene terrigenous supply and the long-eccentricity cycle in the carbon record in the Mediterranean Sea

**11:00–11:15; EGU2007-A-09637; CL12/CL41-1FR2O-002**
Fenoglio-Marc, L.; Mangiarotti, S.; Tsimpis, M.; Vignudelli, S.
Climate variability and change in the Greater Alpine Region over the last two centuries based on multiple variable analysis

**12:00 LUNCH BREAK**

**Chairperson: LUTERBACHER J.**

Bordon, A.; Peyron, O.; Lézine, A.-M.
V egetation history and quantitative climate estimates in the AerMEx initiative (solicited)

**13:45–14:00; EGU2007-A-05185; CL12/CL41-1FR2O-005**
Osetinsky, I.; Alpert, P.
Calendaricities and multimodality in the Eastern Mediterranean cyclonic activity

**14:00–14:15; 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.

**14:15–14:30; EGU2007-A-02189; CL12/CL41-1FR2O-004**
Brunetti, M.; Lentini, G.; Maugeri, M.; Nanni, T.; Auer, I.; Boehm, R.; Schoener, W.
Remote impact of the equatorial Pacific SST anomalies on regional cyclonic activity forming in the Western/Central Mediterranean region

**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**

**15:00–15:30; 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

**15:30–16:00; EGU2007-A-07299; CL12/CL41-1FR4P-0150**
Rodrigo, F.S.
Potential predictability of rainfall in the greek region

**16:00–16:30; EGU2007-A-07214; CL12/CL41-1FR4P-0149**
Sensoy, S.
Remote impact of the equatorial Pacific SST anomalies on regional cyclonic activity forming in the Western/Central Mediterranean region

**16:30–17:00; EGU2007-A-07772; CL12/CL41-1FR4P-0148**
Yúlma, Y., Algan, O., Lericolais, G.
Remote impact of the equatorial Pacific SST anomalies on regional cyclonic activity forming in the Western/Central Mediterranean region

**17:00–17:30; EGU2007-A-07214; CL12/CL41-1FR4P-0149**
Sensoy, S.
Remote impact of the equatorial Pacific SST anomalies on regional cyclonic activity forming in the Western/Central Mediterranean region

**17:30–18:00; EGU2007-A-07299; CL12/CL41-1FR4P-0150**
Rodrigo, F.S.
Potential predictability of rainfall in the greek region

**18:00–18:30; EGU2007-A-06150; CL12/CL41-1FR2O-005**
Baldi, M.; Gaetani, M.; Dalu, G.A.
On the Pliocene terrigenous supply and the long-eccentricity cycle in the carbon record in the Mediterranean Sea

**18:30–19:00; EGU2007-A-05185; CL12/CL41-1FR2O-005**
Osetinsky, I.; Alpert, P.
Calendaricities and multimodality in the Eastern Mediterranean cyclonic activity
Sensitivity of Turkish precipitation to sea surface temperature variability in the surrounding seas

Identification of major sources of moisture and precipitation over Southern Spain


XY0157; EGU2007-A-03527; CL12/CL41-1FR4P-0157 Martínez, M.D.; Lana, X.; Serra, C.; Burgueño, A. Trends in daily minimum and maximum temperatures in Catalonia (NE Spain) along the 1950-2004 period


XY0162; EGU2007-A-02218; CL12/CL41-1FR4P-0162 Marcos, M.; Tsimpis, M.N. Scenarios for future sea level change in the Mediterranean Sea


XY0164; EGU2007-A-00660; CL12/CL41-1FR4P-0164 Lemeskho, 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)


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.; Sierra, F.I.; Flores, J.A. Paleotemperature Estimates for the Alboran Sea based on Globigerina bulloides and Globigerinoides ruder Mg/Ca
CL15 Physical and Biogeochemical feedbacks in the Climate System (co-listed in BG)

Convener: Jones, C.
Co-Conveners(s): Alexeev, V.
Lecture Room: J4
Chairperson: N.N.

Friedlingstein, P; Hibbard, K; Meehl, G; Cox, P; The AGCI
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
Zaeche, S; Friedlingstein, P; Bopp, L; Cadule, P
A first estimate of the feedback between climate change and atmospheric N2O concentration

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.; Friedrich, 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.

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.

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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
Drüssler, A.; 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 CO$_2$ 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.; Vizcaíno, M.
Future longterm changes in marine CO$_2$ 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.; Beirling, D.
Modelling Methane during the Holocene

CL19/CL14 Climatic Extremes and their Impacts (colisted in HS & ERE) / Mid-latitude cyclones: processes, variability, changes and impacts

Convener: Beniston, M.
Co-Convener(s): Guyette, S., Ulbrich, U., McDonald, R.
Lecture Room 13 (F1)
Chairperson: N.N.

8:30–8:45; EGU2007-A-01446; CL19/CL14-1FR1O-001
Lambert, S.; Fyle, J.
Human Induced Change in Winter Cyclone Frequency and Intensity

8:45–9:00; EGU2007-A-03819; CL19/CL14-1FR1O-002
McDonald, R. E.
Future changes in extra-tropical cyclones in Hadley Centre climate models

9:00–9:15; EGU2007-A-03795; CL19/CL14-1FR1O-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/CL14-1FR1O-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/CL14-1FR1O-005
Pinto, J.G.; Ulbrich, U.; Leckebusch, G.C; Spangeli, T.; Reyers, M.; Zacharias, S.
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.

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/CL14-1FR2O-002
Brázdil, R.
Hydrometeorological extremes in Moravia and Silesia: past, present and future

11:00–11:15; EGU2007-A-02913; CL19/CL14-1FR2O-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/CL14-1FR2O-004
Gobhanova, K.; Li, L.
Winter weather regimes over the North Atlantic and extreme climate events over Europe

11:30–11:45; EGU2007-A-06294; CL19/CL14-1FR2O-005
Christensen, O. B.; Christensen, J. H.; Berg, P.
Precipitation Spectrum Validation in Regional Climate Models

11:45–12:00; EGU2007-A-08464; CL19/CL14-1FR2O-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.

Beniston, M.; Guyette, S.
Changing climatic variability in Switzerland

13:45–14:00; EGU2007-A-06883; CL19/CL14-1FR3O-002
Bernhard, L.; Thornton, P.
Recent meteorological extremes as triggers of hydrological extremes

14:00–14:15; EGU2007-A-01768; CL19/CL14-1FR3O-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/CL14-1FR3O-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-Conveners(s): Goyette, S., Ulbrich, U., McDonald, R.
Display Time: Friday, 08:00–12:00

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.; Barcaza, Z.; Ferencz, Cs.; Lichtenberger, J.; Molnár, G.; Székely, B.
MODIS and HRPT satellite images of some characteristic and unusual cyclonic and anticyclonic 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.; García-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 southeastern 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 precipitation and temperature over Iberia

XY0220; EGU2007-A-09455; CL19/CL14-1FR4P-0220
Ribera, P.; Ordoñez, P.; Montaño, 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 Romanian 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
Rodríguez-Puebla, C.; Ayuso, S.M.; Frias, M.D.; García-Casado, L.A.
Impacts of climate variations on winter cereal production in Spain
XY0227; EGU2007-A-03298; CL19/CL14-1FR4P-0227
Berkt, 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.; Asin, 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
A climatology of Cold Air Development based on objective methods

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
Norgaard-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
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
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
Pervasive millennial-scale changes in the main (eastern) and secondary (western) branches of the North Atlantic Drift waters to the Nordic Seas during the Holocene

XY0248; EGU2007-A-09930; CL30/CL3-1FR3P-0248
Kjennbakken, H.; Hafldason, 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
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.
Paleoceanographic Change over Geological Timescales in the northern North Atlantic Ocean: Proposed Investigations by OGS for IPY

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 Heravatnet, 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

CL32/CL9 Applied Quaternary Geochronology (co-listed in GM) / High-resolution radiocarbon chronologies - methods and applications – Posters
Convener: Duller, G.
Co-Conveners: 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.
Cryospheric Sciences

**CR150 Modelling ice sheets and glaciers**

Convenor: Hindmarsh, R.
Co-Conveners: Pattyn, F.
Lecture Room 4 (H)
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

**Energy, Resources and the Environment**

ERE1 Wind Power Meteorology

Convenor: Mann, J.
Co-Conveners: Semprevilla, A., Barthelmie, R., Pontes, T.
Lecture Room 27
Chairperson: N.N.
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
Kallo, G.; Galanis, G.; Katsafadis, 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 coast 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

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, Ú.; 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
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
Convenor: Prikryl, R.
Co-Conveners(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.; Savage, J.
The 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.; Kleinschrodt, 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
Gammelseter, E.
Building Europe’s future with Aggregates (solicited)

15:45–16:00; 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

16:00–16:15; EGU2007-A-03493; ERE8-1FR2O-005
Török, Á.
Volcanic rocks and carbonates; the two common aggregate resources of Hungary

16:15–16:30; EGU2007-A-04491; ERE7-1FR4O-004
Gomez-Heras, M.; Smith, B.; Viles, H.; Emery, B.
Modern and Fossil Charcoal: Aspects of Structure and Diagenesis (cancelled)

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
Convenor: Prikryl, R.
Co-Conveners(s): Török, Á., Miskovsky, K.
Lecture Room 2
Chairperson: N.N.
10:30–10:45; EGU2007-A-01741; ERE8-1FR2O-001
Miskovsky, K.; Taborda Duarte, M.; Kou, S. Q.
Impact of mica content on water sensitivity of asphalt concrete

10:45–11:00; EGU2007-A-01908; ERE8-1FR2O-002
Loorents, K.J.; Said, S.S.
Influence of the Mineralogical Composition and Textural Properties on the Quality of Coarse Aggregates

11:00–11:15; EGU2007-A-07139; ERE8-1FR2O-003
Jeffrey, K.
Aggregate product quality maps for sand and gravel deposits

11:15–11:30; EGU2007-A-00079; ERE8-1FR2O-004
Török, Á.
Aggregate product quality maps for sand and gravel deposits

11:30–11:45; EGU2007-A-03493; ERE8-1FR2O-005
Glover, P.
Modern and Fossil Charcoal: Aspects of Structure and Diagenesis (cancelled)

12:00 END OF SESSION

ERE9 Archaeometry: The use of geoscientific techniques to probe the archaeological environment
Convenor: Glover, P.
Lecture Room 2
Chairperson: GLOVER, PWJ
8:30–8:45; EGU2007-A-00089; ERE9-1FR1O-001
Modern and Fossil Charcoal: Aspects of Structure and Diagenesis (cancelled)

8:45–9:00; EGU2007-A-10680; ERE8-1FR2O-006
Jeffrey, K.
The discovery of an Anglo-Saxon grubenhaus at New Beckwith, northern UK using electrical surveying and predictive deconvolution
9:00–9:15; EGU2007-A-01466; ERE9-1FR1O-003
Renson, V.; De Vleeschouwer, F.; Fugel, N.; Mattielli, N.; Nekrassoff, S.; Steeel, M.
Early Pb-Zn mining and transport revealed by elemental and lead isotopes geochemistry near a Late Roman to Merovingian cobbled road (Belgium). A direct application of geochemistry to archaeology

9:15–9:30; EGU2007-A-03916; ERE9-1FR1O-004
Hill, I.; Leech, C.
Advantages of free-roving multi-sensor geophysical surveys for archaeological prospection

9:30–9:45; EGU2007-A-10877; ERE9-1FR1O-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; ERE9-1FR1O-006
Elmaleh, A.; Galay, A.; Day, J.A.; Martinier, 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 Tyre of the Roma Stela.

XY0285; EGU2007-A-05194; ERE9-1FR2P-0285
Apostos, C.; Feurdean, A.
Interaction between calcite 10-14 surface and Cd-bearing aqueous solutions: An AFM study

XY0286; EGU2007-A-05988; ERE9-1FR2P-0286
GRASSI, D.; GRIMALDI, S.; SIMEONE, V.
Geological and geomorphological conditioning in localization of apulian rupetristian settlements

XY0287; EGU2007-A-06023; ERE9-1FR2P-0287
Dobnikar, M.; Mirtiè, B.; Golež, M.; Mladenovíc, 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, A.; Abdu
ecological changes and pre historic human settlement in shusthar plain: case study

XY0290; EGU2007-A-08881; ERE9-1FR2P-0290
Szilagyi, V.; Gyarmai, 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)

8:30–8:45; EGU2007-A-09470; GMPV10-1FR1O-001
Ruiz-Agudo, E.; Putnis, C.V.; Rodriguez-Navarro, C.
An experimental study of calcite dissolution in the presence of Mg2+

8:45–9:00; EGU2007-A-08169; GMPV10-1FR1O-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; GMPV10-1FR1O-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; GMPV10-1FR1O-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; GMPV10-1FR1O-005
Hammer, Ø.; Dysthe, D.K.; Lelu, B.
Calcite precipitation instability under open-channel flow

9:45–10:00; EGU2007-A-06292; GMPV10-1FR1O-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; GMPV10-1FR1O-003
Böttcher, M.E.
Isotope equilibrium and disequilibrium effects in dissolved carbonate species and wetherite 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.; Lalamend, A.; Mouthe, J.; Michel, A.; Brosse, M.
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.; Stingl, 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 bakhtiyari, Iran; 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; GMPV10-1FR3P-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
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
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

GMPV11 CO2 Geological Sequestration: bio-mechano-geochemical processes from the pore-scale to the reservoir-scale – Posters
Convener: BENEZETH, P.
Co-Conveners: MENEZ, B., Noiriel, 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; GMPV11-1FR2O-0015
Bénézeth, P.; Dandurand, J.L.; Harrichoury, J.C.; Bénézeth, P.; Schott, J.
The solubility of siderite (FeCO3) as a function of temperature, following a small scale CO2 injection
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 17:30–19:00
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 17:30–19:00

A0016; EGU2007-A-08155; GMPV11-1FR2O-0016
Bénézeth, P.; Dandurand, J.L.; Harrichoury, J.C.
The importance of gas/solution exchange for CO2 biomineralization into carbonates in the subsurface
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 17:30–19:00
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 17:30–19:00

A0017; EGU2007-A-11064; GMPV11-1FR2O-0017
Flukiger, F.; Bernard, D.; Bénézeth, P.
Pore-scale modelling of calcite dissolution by acidic water flow
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 17:30–19:00
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 17:30–19:00

12:00 END OF SESSION
A0018; EGU2007-A-06441; GMPV11-1FR5P-0018
Andreati, 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.; Andreati, M.
Implications of CO2-saturated brine percolation in carbonate 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.; Bucianti, A.; Quattrochi, 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 – Posters

Convener: Perchuk, L.
Co-Conveners(s): Safonov, O.
Display Time: Friday, 15:00–19:30

Authors in Attendance: Friday, 08:30–10:00
Poster Area Hall A
Chairperson: N.N.

A0026; EGU2007-A-00839; GMPV14-1FR1P-0026
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 (solicited)

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 measurements of solvation processes in high-temperature low-density fluids (solicited)

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 15:00–19:30
Poster Area Hall A
Chairperson: N.N.
GMPV15 Metamorphic and magmatic consequences of ultra-deep subduction

Convener: Gerya, T.
Co-Conveners: Perchuk, L.
Lecture Room 21 (O)
Chairperson: GERYA, T.

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.; Matsuyk, S.; Kaminovsky, F.
Nanoinclusions of phase Egg AlSiO₃(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
Growth and mixing dynamics of mantle wedge plumes

17:00–17:15; EGU2007-A-01152; GMPV15-1FR4O-001
Burov, E.; Yamato, P.
Co-Convener(s): Perchuk, L.
Convener: Gerya, T.

17:15–18:00; EGU2007-A-01682; GMPV15-1FR4O-007
A technique for calculation of accurate exhumation rates for UHP rocks: Rb/Sr isotope analyses of the CCSD eclogites (Sulu, China)

18:00–18:15; EGU2007-A-01824; GMPV15-1FR4O-006
Brueckner, HK
Subduction of Continental Crust and the Origin of Syntectonic, Late Tectonic, Post Tectonic and Possibly Anorogenic Granites

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 Archean and Paleoproterozoic eclogites from the Belomorian Mobile Belt, Fennoscandian Shield

18:30–18:45; EGU2007-A-07865; GMPV15-1FR5O-005
Bernard, S.; Bessac, 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
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-Conveners: Plag, H.
Lecture Room 6 (K)
Chairperson: GROSS, R.

8:30–8:45; EGU2007-A-10577; G4/GD17-1FR1O-001
Rothacher, M.; Neilan, R.; Plag, H.P.
GGOS: the Global Geodetic Observing System (solicited)

8:45–9:00; EGU2007-A-06363; G4/GD17-1FR1O-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/GD17-1FR1O-003
Solid Earth signatures of surface mass variations and improved global monitoring using multi-satellite data combination (solicited)

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/GD17-1FR1O-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/GD17-1FR1O-006
Grötzsch, A.; Thomas, M.; Dobslaw, H.
Operational estimates of transient hydrospheric effects on Earth rotation parameters

10:00 COFFEE BREAK

Chairperson: GROSS, R.

Petrov, L.; Bizouard, Ch.
VLBI Intensive observations for UT1: accuracy and usability

10:45–11:00; EGU2007-A-04197; G4/GD17-1FR2O-002
Englisch, 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

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
Meeting Programme


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)


12:00 LUNCH BREAK

Chairperson: N.N.


14:00–14:15; EGU2007-A-01638; GD20-1FR1P-0048 Chalmers, J. Cretaceous-Palaeogene development of Labrador Sea and Davis Strait (solicited)


14:30–14:45; EGU2007-A-00466; GD05-1FR3O-005 Rasskazov, S.; Chuvashova, I.; Kozhevnikov, V.; Mordvinova, Y. 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: Kusznir, N.
Co-Conveners(s): 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


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)


A0054; EGU2007-A-03723; GD20-1FR1P-0054 Paquette, J.-L.; Sigmarsson, O.; Tiepolo, M. MidPerm zircons in Miocene ignimbrite from E-Iceland: a splinter of a continental crust?

A0055; EGU2007-A-07759; GD20-1FR1P-0055 Chappell, A.R.; Kusznir, N.J. Northern N. Atlantic rifted margin crustal thickness and OCT location from satellite gravity inversion incorporating a lithosphere thermal gravity anomaly correction


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


Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00
Poster Area Hall A
Chairperson: N.N.

Geomorphology

GM24 GEOMATICS applications in GEOMORPHOLOGY: new technologies for the improvement of an "old" science

Convener: MANZONI, G.
Co-Conveners(s): Giardino, M., Tamburini, A.
Lecture Room 17 (M)
Chairperson: N.N.
Landslide Remote Sensing Monitoring: Formigal case study

11:15–11:30; EGU2007-A-07383; GM24-1FR2O-004

The Ping Pong method

By 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)

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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 FORMOSA T-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)

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12:00 END OF SESSION

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Geosciences Instrumentation and Data Systems

G15 Space Instrumentation (co-listed in PS, ST, AS, G & OS) – Posters

Convener: Leese, M.

Co-Conveners: Kargl, G.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 10:30–12:00

Poster Area Halls X/Y

Chairperson: LESE, M.

XY0292; EGU2007-A-06915; G15-1FR2P-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; G15-1FR2P-0293

Stocky, J. F.; Stevens, C. M.; Nelson, R. M.

NASA’s New Millennium ST-9 Mission

XY0294; EGU2007-A-06947; G15-1FR2P-0294


The VENµS mission: Earth observation with high spatial and temporal resolution capabilities

XY0295; EGU2007-A-08979; G15-1FR2P-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; G15-1FR2P-0296


A combined dust impact detector and ion trap mass spectrometer for a Europa orbiter

XY0297; EGU2007-A-09246; G15-1FR2P-0297


Methods developed to identify and remove spacecraft generated magnetic fields from Venus Express magnetometer data

XY0298; EGU2007-A-08789; G15-1FR2P-0298

O’Brien, H.; Brown, P.; Carr, H.; Horbury, T.; Oddy, T.; Beek, T.

Digital, tuned, FPGA based fluxgate magnetometer for the Solar Orbiter Mission

XY0299; EGU2007-A-03182; G15-1FR2P-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; G15-1FR2P-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; G15-1FR2P-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
Krasnosekikh, V.; Dudok de Wit, T.; Pincom, J.-L.; Lefevre, F.; Korepanov, V.; Kryuchkov, E.; de Feraudy, H.; Chabassiere, M.; Fergeau, 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

Convenor: Thomas, N.
Co-Convenor(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.; Cosi, M.; Tommasi, L.; Magni, G.; Orosch, E.
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

Convenor: Falkner, P.
Co-Convenor(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 - Inerring 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.; Baunjojahnn, 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.; Jauermann, 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-0317
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
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)

Convenor: Ritschel, B.
Co-Convenor(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-00653; GI10-1FR1O-001
Ritschel, B.; ISDC TEAM
Interoperability in geosciences – networking of metadata, data and applications
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
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
Diviacco, 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.

eWater : the European distributed hydrogeological information system

13:45–14:00; EGU2007-A-02914; GI10-1FR3O-002
Cander, I.; Belahaki, A.; Zolesi, B.; Bremer, J.; Juren, C.; Stanislawksa, I.; Dialetis, D.; Hatzopoulos, M.
The DIAS system: A distributed information system for monitoring, predicting and forecasting ionospheric conditions 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
QuakeML–XML concepts for a European seismological data exchange infrastructure

15:00 END OF SESSION
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; Baldocechi, 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.; Intsiful, 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.; Stavarakas, 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.; Cinquina, I.; McGuinness, D.; West, P.; Garcia, J.; Benedict, J.; Darnell, J.A.; Middleton, D.
The Production Virtual Solar-Terrestrial Observatory: Semantic 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 mapping

XY0344; EGU2007-A-01906; GI10-1FR4P-0344
Bykov, A.D.; Fazliev, A.Z.; Filippov, N.N.; Sinitsa, L.N.; Tonkow, M.V.; Troyakov, M.Yu.; Privezetsev, A.I.; Kozdeo, A.V.
Distributed information system on atmospheric spectroscopy

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Hydrological Sciences

HS7 Subsurface flow, solute transport, and energy processes: 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.; Burtol, 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.; Yones, A.
Adaptive time stepping scheme for numerical modelling of unsaturated flow

A0062; EGU2007-A-06061; HS7-1FR2P-0062
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.; Zurn, D.; Cislerrera, M.
Effect of the preferential flow on the soil water balance

A0065; EGU2007-A-08661; HS7-1FR2P-0065
Pavelková, H.; Dohal, 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.; Wheater, 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: influence of local hydraulic conductivity, stream levels, well placement, and pore clogging

A0068; EGU2007-A-07326; HS7-1FR2P-0068
Dagès, C.; Volz, 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.; Made, 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 NAPL interfaces in porous media and their effects on mass transfer of organic contaminants

A0080; EGU2007-A-06097; HS7-1FR2P-0080
Yiotis, A.G.; Kainourgikas, 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
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
Becherm, A.; Blanda, F.; Drugo, A.; Iovino, M.; Minacapili, M.; Provenzano, G.; Rallo, G.; Scirocco, M.
Assessing the agro hydrological SWAP model to simulate soil water balance in typical Mediterranean crops

A0086; EGU2007-A-06304; HS19-1FR2P-0086
Agnese, A.; Blanda, F.; Drago, A.; Iovino, M.; Minacapili, M.; Provenzano, G.; Rallo, G.; Scirocco, M.
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 (Neffzaoua, 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 hydrogeological management of Chirichik 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
Bhêrens, 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.; Jauvoux, 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
Polymer tensiometers: measuring soil water pressures in the vicinity of maize roots

A0098; EGU2007-A-07965; HS19-1FR2P-0098
Schroeder, T.; Jauvoux, M.; Vanderborgh, J.; Vereecken, H
Three dimensional modelling of root water uptake for small scale soil-root interactions

A0099; EGU2007-A-03516; HS19-1FR2P-0099
El-Bishi, 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
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 GIS 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
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

Conveners: Bogaart, P.
Co-Conveners: 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.; Javoux, M.; Vanclouster, 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.; Ronellenfitsch, F.; Seeger, M.
Pattern recognition in soil moisture distribution on agricultural land derived from remotely sensed 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.; Daha, L.; Alaghmand, S.; Zlatic, 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
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.; Schmaydrig, D.; Badoux, A.; Mc Ardell, 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.; Niedziewski, 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 Smidt, 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
Clarke, J.; Pain, C.; Lawrie, K.; Wilford, J.
Predicting aquifer characteristics and connectivity in Australia’s complex regolith landscapes

A0134; EGU2007-A-05907; HS28-1FR2P-0134
Harter, T.
Low percolation threshold found for correlated random media
Application of remote sensing and GIS-methods for the regional climatic characterisation of the high mountain region of Corsica, France

Hydrological processes and related pollutant fluxes in experimental basins

Comparison between forest floor interception of a beech, grass-moss and pine plot

Hydrologic controls over the seasonal nitrate export mechanisms in a forested watershed

The Frankelbach catchment – a field laboratory to understand the effects of land-use changes on the water balance of low mountain range headwater regions

Pb isotopes patterns in sediments from Rio de Janeiro State (Brazil): evidence for anthropogenic sources

Responses of hydrochemical inorganic ions in the rainfall-runoff processes of experimental catchments and its significance for tracing

Catchment scale near-surface and root zone soil moisture dynamics and the processes controlling their spatial and temporal distribution

New data sources and their potential for predictions in ungauged basins

The Krycklan Catchment Study, Sweden: A field based experimental platform for linking small-scale process understanding to landscape patterns

The search for orthogonal Data in Hydrology - DTS fiber optic Technique for high resolution temperature Data

Scientific Impetus to guarantee continuous hydro measurements on Nigerian River Basins

Impact Assessment of Climate Change on Potential Evapotranspiration of an Experimental Catchment

Comparison of three models of gas exchange to describe the degassing of Rn-222 in a first-order stream on Huewelerbach catchment (Luxembourg)

Seasonal impact of algae on the velocity of the Glinšèica stream

Comparing permeability and hydrological soil processes as first indicators on spatial variability of rainfall runoff relationships at the meso-scale

The Pöllau experimental basin (Eastern-Styria/Austria) - over 25 years of continuous hydrological observations and multidisciplinary research

Sequential gaussian simulation of suspended sediment concentration during an extreme rainfall episode in a Mediterranean experimental basin
**A0143:** EGU2007-A-05810; HS30-1FR3P-0143
Martinez, 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 (StTSCA)

**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
Gribovszki, 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.; Rodrier, C.; Picot, B.; Salies, 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.; Miranda, 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.; Schuler, 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

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**HS32**

**Climate-soil and vegetation interactions in ecological-hydrological processes (co-listed in AS, CL, NP & SSS)**

Convener: Manfreda, S.
Co-Conveners: 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 semi-arid 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
Canarozzo, M.; Noto, L.V.; Pumo, D.; Viola, F.
Eco-hydrology 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.; Parlane, 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-Iiturbe, I.; Rinaldo, A.
On the Probabilistic characterization of base flows in river basins

**11:45-12:00:** EGU2007-A-07904; HS32-1FR2O-006
Campos, 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-Conveners: 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
Kuels, 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...
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.; Vandenberghhe, 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.; Bloschl, 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
Lindenmaier, 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
Schaefl, 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

Convenor: 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
Turocotte, 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-05553; HS34-1FR2P-0197
Schaelfi, 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.; Schaefli, B.; Eckart, J.; Zehe, E.
Faster identifiability analysis of hydrological models using generalized FAST (Fourier Amplitude Sensitivity Test)

A0199: EGU2007-A-09693; HS34-1FR2P-0199
Troy, T.; Shiefield, 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 Streamflow 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

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.; Khalghi, 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
Trnková, M.; Dubrovský, M.; Kyselý, J.; Kladňáková, V.; Možný, M.; Hostýnek, J.; Smerádová, D.
Meteorological drought events in the Czech Republic during 1875-2005 according to Palmer’s drought indices

A0213: EGU2007-A-03470; HS36-1FR2P-0213
Stojkovová, 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 Chvojnica River catchment

A0215: EGU2007-A-06446; HS36-1FR2P-0215
Pinkwater, L.; 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
Hurnkmans, 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-Ioroiuc, 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
Kaplacka, A.; Kvitik, B.
Extreme rainfall-runoff event in a small experimental catchment in the Bohemio-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
Nae, F; Schmocker-Fackel, P; Hegg, C
Distribution of large floods in Switzerland in the last 400 years

A0225; EGU2007-A-09658; HS36-1FR2P-0225
Nemmer, 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
Mosaeli, 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.; Szołajy, 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-Conveners: Bardossy, A., Burlando, P., Lanza, L., Srikanta, S.
Lecture Room 31
Chairperson: SRIKANTHAN, S.
8:30–8:45; EGU2007-A-05237; HS39-1FR1O-001
Lepoufle, 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

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.; Sari, 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-Conveners: Bardossy, A., Burlando, P., Lanza, L., Srikanta, S.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 15:30–17:00
Poster Area Hall A
Chairperson: CĂRSTEANU, A.A.

A0236; EGU2007-A-00939; HS39-1FR4P-0236
Neykov, NM
Modelling daily precipitation over the territory of Bulgaria using hidden Markov models

A0237; EGU2007-A-01069; HS39-1FR4P-0237
Segond, M-L.
Modelling of Space-Time rainfall for System Based Analysis and Management of Urban Flood Risks (SAM)

A0238; EGU2007-A-01418; HS39-1FR4P-0238
Bloomfield, J.; Rutter, H.
The application of copulas to downscale daily precipitation

10:00 END OF SESSION
**Meeting Programme**

**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.; Bärdossy, A.; Jungvirto, 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.; Carsteau, A.A.; Ba, K.M.; Quintin, 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)

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**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  
Discussion on the implementation of Quantitative Precipitation Estimations (QPE) on operational polarimetric radars

**A0254:** EGU2007-A-04200; HS40-1FR4P-0254  
Hollema, I.; Overeem, A.  
Long-term verification of bias-adjusted radar precipitation estimates

**A0255:** EGU2007-A-07370; HS40-1FR4P-0255  
Marx, A.; Kunstmann, H.; Bärdossy, 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
Leijinse, 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
Leijinse, 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.; Leijinse, 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.; Leijinse, 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.; Leijinse, 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-Conveners: Bunde, A., Dolman, H., Koutsoyiannis, D., Pegram, G.
Lecture Room 31
Display Time: Friday, 08:00–19:30

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) modelling 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
Evaluating and comparing downscaling techniques for regional precipitation modelling.

A0269; EGU2007-A-05042; HS41-1FR4P-0269
Pandzic, K.; Tunicic, D.; Likso, T.; Bosnjak, T.
Long-period variations of water balance components for Croatia

A0270; EGU2007-A-05423; HS41-1FR4P-0270
Kahya, E.; Cengiz, T.M.
The NAO Influences on Sapanca Lake-levels by Wavelet Analysis (solicited)

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

15:00 END OF SESSION

HS41 Statistical concepts in understanding and modelling hydro-climatic change (co-listed in NP, CL and AS) – Posters
Meeting Programme

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-08877; 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

Poster Area Hall A

18:00–19:30

HS45 Modelling and observation of hydrological and biological processes in West Africa (co-listed in BG)

A0275; EGU2007-A-02335; HS45-1FR2P-0275
carrer, d.; roujean, j.l.; hautecoeur, o.; Geiger, b.; muerey, 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.; Couderc, B.; Zribi, M.; Cappellaere, B.; Boullain, 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
Brüninger, 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; Hlauchauq, 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 Giesen, 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 1 Results

A0288; EGU2007-A-10824; HS45-1FR2P-0288
Pellarin, T.; Laurent, J.P.; Decharme, B.; Chopin, F.; de Rosnay, P; Boone, A; Descroix, L.; Cappellaere, 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 palaeomagnetism

Convener: Franke, C.
Co-Conveners: Vasiliev, I.

Chairperson: FRANKE, C., VASILIEV, I.

8:30–9:00; EGU2007-A-07387; MPRG07-1FR1O-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; MPRG07-1FR1O-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; MPRG07-1FR1O-003
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; MPRG07-1FR1O-004
Hüsing, S.K.; Dekkers, M.J.; Krijgsman, W.
A stable remanent magnetization carried by greigite

9:45–10:00; EGU2007-A-01169; MPRG07-1FR1O-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; MPRG07-1FR2O-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; MPRG07-1FR2O-002
Heslop, D.; Dillon, M.
Unmixing magnetic remanence curves without a priori knowledge

11:00–11:15; EGU2007-A-05678; MPRG07-1FR2O-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; MPRG07-1FR2O-004
Szönyi, M.; Sagnotti, L.; Hirt, A.M.
On leaf magnetic homogeneity in particulate matter biomonitoring studies

11:30–11:45; EGU2007-A-07851; MPRG07-1FR2O-005
Roeser, H.A.
Geomagnetic observations at a lightning stroke place

11:45–12:00; EGU2007-A-03407; MPRG07-1FR2O-006
Oliva-Urcía, B.; Roman-Berdiel, T.; Pueyo, E.; Antolin-Tomas, B.; Casas, A.; Gil-Pena, I.; Soto-Marín, 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.

Vasiliev, I.; Dekkers, M.J.; Krijgsman, W.; Franke, C.; Langereis, C.G.; Mullender, T.A.
Greigite as recorder of palaeomagnetic and paleoenvironmental signals in the Triassic sediments of the Carpathian foredeep (Romania)

13:45–14:00; EGU2007-A-07123; MPRG07-1FR3O-002
Paterson, G.; Viramonte, J.; Roberts, A.
Emplacement temperatures of pyroclastic flows using palaeomagnetic techniques: Láscar, Chile

14:00–14:15; EGU2007-A-06839; MPRG07-1FR3O-003
Deenen, M.I.H.; 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; MPRG07-1FR3O-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; MPRG07-1FR3O-005
Krystyn, L.; Gallet, Y.; Marcoux, J.; Besse, J.; Kuepersch, W.
Towards a multi-stratigraphic global correlation of the late Upper Triassic (solicited)

14:45–15:00; EGU2007-A-10594; MPRG07-1FR3O-006
Hounslow, M.W.; Szurles, 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-Conveners: 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

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. Effect of Soil Moisture Parameterization on a Real Time Flood Forecasting System based on Rainfall Thresholds


XY0351: EGU2007-A-08075; NH2.02-1FR1P-0351 Cole, S.; Moore, R.J. Hydrological modelling at gauged and ungauged locations using radar- and raingauge-based rainfall estimators


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


XY0356: EGU2007-A-03003; NH2.02-1FR1P-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


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


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.; Marz, B.; Thieken, 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-Conveners(s): White, K.
Display Time: Friday, 08:00–19:30
Authors inAttendance: 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


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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.; Suriaich, E.; Hübl, H.; Khazarade, G.; García de Yebenes, I.
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, Aus-
tria, 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
Zézere, J.L.; García, 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
Klime, 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
Dong, J.J.
Event-Based Landslide Susceptibility Analysis: V an example
from Central Western Taiwan

10:00 COFFEE BREAK

Chairperson: SCHNEIDER, J.

10:30–10:45; EGU2007-A-10688; NH3.10-1FR2O-001
Ascione, A.; Cinque, A.; Franz a, 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
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.; Ghinoi, 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.; Guidetti, 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-04352; NH3.10-1FR2O-006
Hugel, 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
XY0385; EGU2007-A-06581; NH3.10-1FR3P-0385
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-00099; NH3.10-1FR3P-0392
Thiebes, B.; Bell, R.; Glade, T.; and Elgaal, S.
Determination of the landslide susceptibility map using GIS in the Oued Sra catchment, Central Rif, Morocco

XY0393; EGU2007-A-00889; NH3.10-1FR3P-0393
Constantin, M.
The landslide susceptibility map in the Panata Basin, Buzau Subcarpathians, Romania

XY0394; EGU2007-A-03534; NH3.10-1FR3P-0394
Zezere, 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.; Leoní, 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
Kookinejad, 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 Chilspen river, Taiwan

XY0400; EGU2007-A-10381; NH3.10-1FR3P-0400
Komac, B.; Zorn, M.
Probabilistic landslide hazard map with a fifty years recurrence period

XY0401; EGU2007-A-06606; NH3.10-1FR3P-0401
Delmonaco, G.; Ferrara, F.; Maccarin, 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
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

NH3.10 Estimating landslide hazards and risk (co-listed in GM) – Posters

Conveners: Reichenbach, P.
Co-Conveners: Schneider, J.
Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 13:30–15:00
Poster Area Halls XY
Chairperson: SCHNEIDER, J.

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
Mining, M.; Schekotov, A.; Molchanov, O.; Fedorov, E.; Chebrov, V.; Murgese, D. S.
ULF/ELF magnetic field variations in atmosphere probably induced by shallow earthquakes
XY0408; EGU2007-A-02081; NH4.02-1FR3P-0408
Marquez-Cruz, J.; Ramirez-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-01210; 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.; Piattibrot, 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
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-earthquake effects

XY0419; EGU2007-A-06197; NH4.02-1FR3P-0419
Zegarnik, 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.; Prat tes, 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
Marquez-Cruz, J.; Flores-Marquez, E. L.; Ramirez-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

XY0425; EGU2007-A-00663; NH4.03-1FR3P-0425
Das, N.K.; Bhandari, R.K.; Sen, P.; Sinha, B.; Mourgounov, V.
Monitoring of Geochemical and Electromagnetic signals in seismic area of Himalaya in India.

XY0426; EGU2007-A-02805; NH4.03-1FR3P-0426
Gershenzon, N.; Bambukidis, 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, I.N.; Koulouras, G.; Fomichev, V.V.
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.

XY0429; EGU2007-A-04824; NH4.03-1FR3P-0429
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
Entropic Study of a proper "word length" for Catastrophic Earthquakes

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
Koshevaaya, S.V.; Grimalsky, V.V.; Makarets, N.V.; Kotarenko, A.N.; Siquerres-Alatorre, J.; Perez-Enriquez, R.; Juarez-Romer, D.
Electromagnetic emission from magnetite plate cracking.

XY0436; EGU2007-A-01023; NH5.01-1FR1O-001
Pfanz, H.
Vegetation as a pre-eruption indicator?

XY0437; 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.

XY0438; 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.

XY0439; EGU2007-A-04487; NH5.01-1FR1O-004
Deligne, N. I.; Coles, S. G.; Sparks, R.S.J.
Recurrence rates of large explosive volcanic eruptions.

XY0440; EGU2007-A-05467; NH5.01-1FR1O-005
Tentler, T.; Soriano, C.; Andujar, J.
Magmaic controls on the evolution and eruptive risk of Las Cañadas volcanic complex in Tenerife.

XY0441; 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.
XY0441; EGU2007-A-04875; NH5.01-1FR3P-0441
Gottsmann, J.; Carmiel, R.; Coppo, N.; Wooller, L.; Rymer, H.; Hauksson, 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 area

XY0444; EGU2007-A-08125; NH5.01-1FR3P-0444
Pesaressi, 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
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-vulcanic crises at Fogo volcano, São Miguel (Azores, Portugal): volcanic lakes monitoring

NH6.01 Tsunamis (co-listed in OS)
Convener: Tinti, S.
Co-Conveners(s): Pelinovsky, E.
Lecture Room 24
Chairperson: PAPAPOULOS, G.
10:30–10:45; EGU2007-A-06280; NH6.01-1FR20-001
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; NH6.01-1FR20-002
The May 2003 Western Mediterranean Tsunami: analysis of sea level records and comparison with numerical simulations

11:00–11:15; EGU2007-A-06799; NH6.01-1FR20-003
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; NH6.01-1FR20-004
Lovholt, F.; Gislér, G.; Pedersen, G.; Cai, X.
Modeling of potential slide generated tsunamis at La Palma Island

11:30–11:45; EGU2007-A-07243; NH6.01-1FR20-005
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; NH6.01-1FR20-006
Zahibo, N.; Pelinovsky, E.; Nikolkina, I.
Tsunami Hazard for Guadeloupe (French West Indies)
12:00 LUNCH BREAK
Chairperson: TINTI, S.
Ozer, C.; Yalciner, A. C.; Pelinovsky, E.; Zaytsev, A.
Ozer, C.; Yalciner, A. C.; Pelinovsky, E.; Zaytsev, A.
Orkan, C.; Yalciner, A. C.; Pelinovsky, E.
Development of potential tsunami warning system for the Black Sea

13:45–14:00; EGU2007-A-10687; NH6.01-1FR3O-002
Fritz, H.; Borerro, J.; Yang, Y.
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
Propagation of tsunamis in the near-field from megathrust earthquakes

14:30–14:45; EGU2007-A-09913; 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-09950; NH6.01-1FR3O-006
Slip and the Indian Ocean Tsunami from GPS, altimeters and tide gauges

15:00 COFFEE BREAK

15:30–15:45; EGU2007-A-03116; NH9.01-1FR3O-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-03171; NH9.01-1FR3O-002
The Central Kuril (Simushir) Earthquakes and Tsunamis of 15 November 2006 and 13 January 2007: Predicted Events

16:00–16:15; EGU2007-A-05040; NH6.01-1FR4O-004
Fuhrman, D.R.; Madsen, P.A.
Numerical modelling of tsunami generation and run-up, and the surf similarity of solitary waves

16:30–16:45; EGU2007-A-03171; NH9.01-1FR3O-005
Dominey-Howes, D.
Preliminary catalogue of Australian tsunami

16:45–17:00; EGU2007-A-03719; NH6.01-1FR4O-006
Prediction of geohazard triggering by meteorological variables using classification trees

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.

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’Ossio, F.; Cavalletti, A.; Polo, P.; Gonnella, M.
GIS based vulnerability assessment using multi-criteria analysis

14:15–14:30; EGU2007-A-09550; NH9.01-1FR3O-004
Catto, N.; Farrowick, K.
Assessing the socio-spatial vulnerability of citizens to natural hazards

14:30–14:45; EGU2007-A-04423; NH9.01-1FR3O-005
Extreme run-up from the 17 July 2006 Java tsunami

14:45–15:00; EGU2007-A-09964; NH9.01-1FR3O-006
Fuchs, S.; Oberndorfer, S.
Damage due to torrent events 1972-2004 in Austria

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
Garites, G.; Lahousse, P.; Masson, É.; 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
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
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
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
Hallegratte, 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-18016; 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

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.; Diez Herrero, A.; Martin 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
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
Aebi, 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.; Maitre, 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 tentativeness

17:00 END OF SESSION

NH10.02 Tree-ring reconstructions in natural hazards research

Convener: Stoffel, M.
Co-Conveners: Bollschweiler, M.
Lecture Room 16 (L)
Chairperson: STOFFEL, M.
NH10.02 Tree-ring reconstructions in natural hazards research – Posters

Convener: Stoffel, M.
Co-Conveners: 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
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-07276; 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-Conveners: Rempe1, A.
Lecture Room 3
Chairperson: N.N.

15:30–15:45; EGU2007-A-02499; NP2.02/CR180-1FR4O-001
Lüthi, M.P.
Glacier as a dynamical system

15:45–16:00; EGU2007-A-09908; NP2.02/CR180-1FR4O-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/CR180-1FR4O-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/CR180-1FR4O-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/CR180-1FR4O-005
Fai letzaz, 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/CR180-1FR4O-006
Fowler, A.C.; Zammert, 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-Conveners: Redondo, J., Bouquet, S.
Lecture Room 22
Chairperson: BOUQUET S.

15:30–15:45; EGU2007-A-11439; NP6.06-1FR4O-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; NP6.06-1FR4O-002
Dolgoeva, G.V.; Zhmaylo, V.; Novikova, P.; Statensko, V.P.
Development of Semi-Empirical Turbulent Mixing Model for Calculating MHD-Parameters of Supernova Remnants (solicited)

16:00–16:15; EGU2007-A-11596; NP6.06-1FR4O-003
Kozlov, V.I.
Simulations of Shock Wave/Turbulence

16:15–16:30; EGU2007-A-11435; NP6.06-1FR4O-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; NP6.06-1FR4O-005
Matulka, A.M.; Redondo, J.M.; Carrillo, A.
Topology of Turbulence affected by body forces

16:45–17:00; EGU2007-A-11591; NP6.06-1FR4O-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; NP6.06-1FR5O-001
Kiehn, R.M.
Topologically Coherent and Topologically Stationary (solicited)

18:00–18:15; EGU2007-A-11437; NP6.06-1FR5O-002
Bouquet, S.; Gandeboeuf, P.; Palhories, 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.
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
Bourgois, 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.
Freiing, A.; Bange, H.W.
Nitrous oxide and hydroxylamine in the tropical NE Atlantic Ocean
13:45–14:00; EGU2007-A-01636; OS6-1FR3O-002
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
15:30–15:45; EGU2007-A-03566; OS10-1FR4O-001
Charria, G.; Cipollini, P.; Dadou, I.; Garcon, V.
Planetary waves and biogeochemistry in the North Atlantic Ocean

15:45–16:00; EGU2007-A-00829; OS10-1FR4O-002
Sergeivskaya, 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.; Garcon, 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-Conveners(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.; Segschneider, 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-07889; 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
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
Knappmeyer, 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.; Beauvire, S.; Cerroni, P.; Shkurtov, 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.; Francescon, A.; Bettella, A.; Tassinari, 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
Low energy charged particle measurement by Japanese lunar orbiter SELENE

16:00–16:15; EGU2007-A-10647; PS2.4-1FR4O-003
Erd, C.; Witasie, 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
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
PS3.0 Outer planets and satellites (including David Bates Medal Lecture) – Posters

Convener: Coustenis, A.
Co-Conveners: 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 motions of SKR and near Saturn magnetic field

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.; Kishlyakov, 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.; Grieber, 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
Schwingenschuh, K.; Besser, B.P.; Hoge, 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.; Orsoe, R.; Picardi, G.; Seu, R.; Del Marmo, P.P.; Callahan, P.S.; Walls, S.
Processing of altimetric data of CASSINI mission

XY0474; EGU2007-A-09078; 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
Negro, A.; Coustenis, A.; Hirtzig, M.; Lellouch, E.; Maillard, J.-P.; Rannou, P.; Gendron, E.; Drossart, P.; Combès, 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.; Solin, 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
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
Processing of Cassini VIMS surface images of Titan: spatial and spectral filtering

XY0479; EGU2007-A-06787; PS3.0-1FR2P-0479
The Titan exosphere and its interaction with the krionian magnetosphere: INCA/LEMMS observations statistical analysis and modeling
and constraining the surface spectrum of Titan: cleaning out the atmosphere of analogues of Titan's aerosols produced with a radio-frequency plasma experiment.

Andrew, C.M.; Young, E.F.; Chanover, N.J.; McKay, C.P. Titan's tropospheric methane and lower atmospheric haze distribution from HST/STIS observations

Lin, I.; Ip, W.H. An Exospheric Model of Iapetus

Tobie, G.; Duval, P.; Sotin, C. Grain size evolution in convective ice shells: Application to Europa and the other icy satellites.


Lorenz, R. D.; The Cassini RADAR Team Lakes on Titan: RADAR Observations and models of Physical Processes

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

Read, P. L.; Fletcher, L. N.; Irwin, P. G.; Achterberg, R.; Conrath, B. J. Zonal mean dynamics on Saturn from Cassini and Voyager data

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

Kochemasov, G. The wave modulation approach to explain sizes of some features on Saturn and Titan

Hirztig, M; le Mouellic, S; Rodriguez, S; Negrao, A; Tobie, G; Sotin, C; Coustenis, A; Ramou, P; Brown, RH VIMS cartography of Titan: cleaning out the atmosphere and constraining the surface spectacular
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 Nancay ground-based stations, and Cassini and Wind spacecraft

XY0506; EGU2007-A-08995; PS6-1FR1P-0506
Khotyaintsev, Yu. V.; Krasnoselskikh, V.; Khotyaintsev, M. V.; Mülbichler, 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.; Dorovskyy, V. V.; Stanislavsky, 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
Muetl, 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 spacecraft observed by the wide band receiver onboard Cassini spacecraft

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
Konоваленко, A. A.; Lecacheux, A.; Rucker, H. O.; Fischer, G.; Abranin, E. P.; Kalinchenko, 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.; Komarov, 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 space- craft 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
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
Teraña, 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.; Birbing, 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.; Chassigne, 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.
Fukuyama, E.; Hashimoto, C.; Aoi, S.; Matsu’ura, M.
Integrated simulation of plate subduction, earthquake dynamic rupture and seismic wave propagation
SM11 Earthquake Dynamics: New insights in the rupture process and seismic radiation through theory, modeling and observations – Posters

Convener: Mai, P.
Co-Conveners: 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.; Iide, 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
Barah, I.; Hazarika, D.; Kayal, J.R.; Gogoi, N.K.; Durah; 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
Numerical modelling of earthquakes and fault systems using a dynamic elastoplastic 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.; Villanatros, 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 – 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.; Altınok, 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.; Yalçınler, 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.; Hwang, 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.; Boès, 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.; Groote, 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.; Zabci, C.; Ferry, M.; Yalçınler, 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
Zabci, C.; Karabacak, V.; Sancar, T.; Akyuz, H.S.; 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.; Bryninx, C.; Camelbeck, 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.; Camelbeck, 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; SM15-1FR1O-001
ZARE, M.; KARIMI-PARIDARI, S.
Spectral Attenuation of Strong Motions for Near Source Motions in Iran

8:45–9:00: EGU2007-A-07399; SM15-1FR1O-002
Bindi, D.; Castello, B.; Luzi, L.; Mele, F.; Milana, G.; Pacor, F.; Sabetta, F.
Combining the Italian strong ground motion attenuation relationship: preliminary results with an updated accelerometric data set

9:00–9:15: EGU2007-A-10439; SM15-1FR1O-003
Skarlatoudis, A.A.; Papazachos, C.B.; Margaris, B.N.; Papaioannou, Ch.; Verdouzi, Ch.; Vanvakiaras, D.; Bruestle, A.; Meier, T.; Friederich, W.; Stavarakakis, 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

Weatherley, D.; Leonard, M.
Numerical investigations of epistemic uncertainty in attenuation relations

Pacor, F.; Rovelli, A.; Boehm, G.; Albarello, D.; Parolai, S.; Mucciarelli, M.; Ferretti, G.; Scarascia, G.
Numerical investigations of epistemic uncertainty in attenuation relations

9:45–10:00: EGU2007-A-04093; SM15-1FR1O-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
SM15 Groundshaking scenarios, ground motion models and site effects (Conveners Fabrice Cotton and Stefano Parolai) – Posters

Convener: Cotton, F.
Co-Conveners: Parolai, S.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 17:30–19:00

Poster Area Hall A
Chairperson: N.N.


A0323; EGU2007-A-02699; SM15-1FR5P-0323 Barazza, F.; Carniel, R.; Del Pin, E.; Di Cecca, M.; Grimaz, 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


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


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


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
Zulfićar, 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.; Faccoli, 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.; Bonjé, K.-P.; Wenzel, F.; Rudulian, 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

9:00–9:15; EGU2007-A-02951; SSS4-1FR1O-003
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.; Kabale, 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
Szatylowicz, J.; Kurzawski, G.; Biernacka, E.; Gnatowski, 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-Conveners(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.; Kovářová, P.; Kovářová, M.; Raabová, J.; Rothanžl, 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.; Finer, 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?

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
Schirmer, M.; Irvani, M; Kretz, C.; Risch, AC.
Impact of Formica exsecta Nyl. on grassland soil seed bank and vegetation patterns

12:00 END OF SESSION

Soil System Sciences

SSS4 Organic soils, processes, mechanisms and utilization (co-listed in BG)
Convener: Szajdak, L.
Co-Conveners(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
Zaccone, C.; Coccozza, C.; Cheburkin, A.; Shotyk, 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
SSS22 Ants in the Soil System. A hydrological, chemical and biological approach (co-listed in BG) – Posters
Convener: Risch, A.
Co-Conveners: 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.; Greally, B.; Shallcross, D.E.
Leaf cutter-ant-fungi relationship and natural halocarbon emission
A0347; EGU2007-A-05965; SSS22-1FR3P-0347
Mound-building ants aggregate and redistribute carbon and nutrients in boreal forest floor
A0348; EGU2007-A-06184; SSS22-1FR3P-0348
A0349; EGU2007-A-05650; SSS22-1FR3P-0349
Frouz, J.; Rybníček, M.; Cudlin, P.
The influence of red wood ants Formica polyctena on nutrient availability ant 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.

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
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
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, E.; Pogorelo, 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, JF.; Sahraoui, F.; Belmont, G.; Rezeau, L.; Levrier, F.; Falgarone, E.
Incoherent waves vs. 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’Amicos, 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
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.
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)
ST5 The 3D heliosphere at solar minimum

Convenor: Marsden, R.
Co-Conveners: 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, EJ
Ulysses returns to the south polar cap: Magnetic field observations
9:30–9:45; EGU2007-A-04608; ST5-1FR1O-004

Decker, R.; Krimigis, S.; Roelof, E.
Voyager 1 in the Heliosheath, Voyager 2 in the Termination Foreshock: An Update
9:45–10:00; EGU2007-A-10226; ST5-1FR1O-005

ST4 Oscillations of the solar interior and atmosphere

Convenor: Ballai, I.
Co-Conveners: Gizon, L.
Lecture Room 11
Chairperson: BALLAI, I.
8:30–9:00; EGU2007-A-02061; ST4-1FR1O-001

Metcalfe, 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
**14:00–14:30; EGU2007-A-02013; ST5-1FR3O-002**


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; ST12-1FR4O-001**


The Plasma and Suprathermal Ion Composition (PLASTIC) Instrument Onboard STEREO: First Results (solicited)

**16:00–16:30; EGU2007-A-05763; ST5-1FR4O-002**


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-Conveners(s): Aruliah, A.

Lecture Room 1.

Chairperson: ARULIAH, A.

**10:30–11:00; EGU2007-A-07495; ST12-1FR2O-001**

Balan, N.; Alleyné, H.; Aylward, A. D.; McCrea, I.; Andre, M.; Jensen, B.; 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.; Akinrinmi, 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.


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**


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.; Mauß, 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**


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.; Kraukowski, A.; Blecki, J.; Parrot, M.; Berthelier, J.-J.; Lebreton, J.-P.

Dynamic and fine structure of main ionospheric troughs - unique boundary layer, recent, new in situ measurements and GNSS diagnostics

**16:45–17:00; EGU2007-A-07444; ST12-1FR4O-006**

Barthelyn, 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 nanofossils 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

10:00 END OF SESSION

SSP3 Dynamics of Sedimentary Basins - Evolution, Salt- and Fluid Dynamic (co-listed in GD & TS)

Convener: Bayer, U.
Co-Conveners(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

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.; Reichert, 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.

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
Gottikh, R. P.; Psotskiy, B. I.; Plotnikova, I. N.
Trace Elements of Oil of Tatarstan as Example of Interaction of Deep Process with the Sediment Fill

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
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-Conveners(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
Gruler, J.; Walochnik, J.
Ameoba carbon precipitating microenvironments in karst caves

A0354; EGU2007-A-10250; SSP5/BG8-1FR1P-0354
Raniero, C.; Planke, S.
Early Cretaceous bacterial and biofilms in hydrothermally-supported carbonate chemosystems.
XY0531; EGU2007-A-07264; TS5.1-1FR1P-0531
Minshull, T. A.; Shillington, D. J.; Scott, C. L.; White, N. J.; Edwards, R. A.
Crustal structure of the southern Ethiopian rift: evidence from forward and inverse modeling of gravity and topographic data

XY0532; EGU2007-A-06500; TS5.1-1FR1P-0532
de Wit, M.; 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/SSP4 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)

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 Svertruhuk 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
The East Greenland passiv margin of the Scoresbyund region: Cooling story of the Jameson Land Basin and the surrounding Basin 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
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
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.; García, D.; Remacha, E.; Mansurbeg, H.; Morad, S.; Amorosi, A.
Provenance and reservoir quality of carbonate-rich turbidite arenites from the Hecho Group, South Central Pyrenees, Spain

XY0543; EGU2007-A-08138; TS5.2/SSP24-1FR1P-0543
Controls on submarine erosion in the Valencia Channel Turbiditic System, NW Mediterranean Basin

XY0544; EGU2007-A-09149; TS5.2/SSP24-1FR1P-0544
Laña, M.; Sultan, N.; Canals, M.; Frigola, J.; Berné, S.; Galavazi, M.
Excess pore pressure within continental slope sediments in the Gulf of Lion: a piezocene 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.; Dähmlmann, A.; Hargemnies, 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.; Mascale, J.; Foucher, J.-P.; Boettius, A.; Woodside, J.; Martia, 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.; Cayguy, MN; 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
Tessama, 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-Conveners: 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
Gebelin, A.; Ferré, E.C.; Lin, S.; Chatterjee, S.
Relationship between shear zones and plutons in the Archean: example from the Pukska wa batholith, Superior Province, Ontario

XY0552; EGU2007-A-10327; TS8.1-1FR1P-0552
Pereira, M.F.; Fernández, C.; Silva, J.B.; Chichorro, M.; Diaz 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
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
Rosenberg, C.; Medvedev, S.; Handy, M.
Rheological effects of very small melt fractions (0.01 to 0.07) in crustal rocks

XY0556; EGU2007-A-03421; TS8.1-1FR1P-0556
Rosenberg, C.; Medvedev, S.; Handy, M.
Volume changes during water-assisted melting and their effect on the structures of deformation

XY0557; EGU2007-A-08894; TS8.1-1FR1P-0557
Nikanorov, O.; 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.; Sutthirat, c; Lunwongsa, w; Intasopha, s
Multiple Tectono-magmatic and Metallocgenic Episodes of Eastern Thailand and Central Lao PDR

XY0561; EGU2007-A-08385; TS8.1-1FR1P-0561
Gongalskiy, B.I.; Krivolutskaya, N.A.
The Udokan-Chanye or-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
Poster Area X/Y
Chairperson: N.N.

TS8.3 Tectonics and magmatism during continental rifting and break-up – Posters

Convener: Perez-Gussinye, M.
Co-Conveners: Huismans, 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.; Yakarchuk, 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, Ö.
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
Dzyuzhikov, O.; Shokov, 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, D.J.; Van Avendonk, HJA; Minshull, TA
Investigating the transition from rifting to spreading on magma-poor margins using basement and Moho topography
Meeting Programme

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; TS9.1-1FR1O-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; TS9.1-1FR1O-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; TS9.1-1FR1O-003
Kastelic, V.; Vreeke, M.; Cunningham, D.
The Role of Inherited Structures on Temporal Development, Fault Propagation and Seismicity Distribution – an Example of an Active Strike-Slip Fault

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

Influence of a Paleozoic thrust-system on the Sub-Andean zone architecture (Southern Ucayali basin, Peru)

9:45–10:00; EGU2007-A-02065; TS9.1-1FR1O-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.
Osmundsen, P.T.; Redfield, T.F.; Hendriks, B.H.W; Davidsen, 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
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

Wilson, R.; McCaffrey, K.; Holdsworth, R.; Jepsen, 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)

Jacobs, J.; Thomas, R.T.
East African-Antarctic Orogen and initial Gondwana breakup: 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.
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.; Kangarlili, T.; Bochad, 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.; Saitot, A.; Sévrier, 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.; Saidi, A.
Geodynamics of the South Caspian Basin southern margin now inverted in Alborz and Kopet Dagh (Northern Iran)

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2007-A-02016; TS10.3-1FR4O-001
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 Nakhelak area

16:00–16:15; EGU2007-A-02690; TS10.3-1FR4O-003
The Cimmerian Orogeny – a foreland perspective

16:15–16:30; EGU2007-A-05057; TS10.3-1FR4O-004
The EoCimmerian orogeny in North Iran

16:30–16:45; EGU2007-A-01795; TS10.3-1FR4O-005
Robin, C.; Guillocheau, F.; Gorician, 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-Conveners(s): Schmid, S.
Lecture Room 5 (I)

10:30–10:45; EGU2007-A-05878; TS10.4-1FR2O-001
Beltrando, M.; Hermann, J.; Lister, G.; Campagnoni, 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.; Fügen-schuh, B.; Sölva, H.
Polymetamorphism and deformation in the hanging wall of a Cretaceous extrusion zone (Austroalpine Ötztal-Stubai 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-Conveners(s): Schmid, S.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 13:30–15:00
Poster Area Halls X/Y

XY0577; EGU2007-A-03487; TS10.4-1FR3P-0577
Maino, M.; Dallagiovanna, G.; Gaggero, L.; Seno, S.; Tiepòlo, 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.; Tiepòlo, M.
From orogen collapse to margin rift: new U/Pb constraints 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.; Carraba, 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 Valaisan Ocean flooded by oceanic crust? Evidence of Permian intra-plate magmatism in the Versoixen 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 3D 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.; Grasemann, B.; Thöni, M.
NW directed normal faulting in the hanging wall of the eo-alpine high-pressure rocks: the W termination of the Schneeberg orocline (Southern Tyrol, Italy)

XY0589; EGU2007-A-08683; TS10.4-1FR3P-0589
Sékely, B.; Szafián, P.; Frisch, W.; Kuhlemann, J.; Danišk, M.; Dunkl, I.
A3HMEA: A three-dimensional model of the Eastern Alps

XY0590; EGU2007-A-07409; TS10.4-1FR3P-0590
The U-Pb age of one type of porphyric dykes (‘Rojen dyke swarm’) in Oetztalnappe – Austrudpline in the area of Zehnerkopf and Vallungspitz (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
EGU2007-A-06493; US6-1TH4O-004; p. 461

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EGU2007-A-09461; AS3.13-1FR1P-0115; p. 573

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EGU2007-A-10230; NH11.04-1MO4O-004; p. 211

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EGU2007-A-01380; AS3.04-1TH3O-005; p. 470

Arctic smoke team

EGU2007-A-02229; PS2.2-1TU2P-0806; p. 332

Aspera-3 Team
Aspera-3 Team

EGU2007-A-11379; PS2.0-1TU1P-0744; p. 329

AXA/BepiColombo Project

EGU2007-A-00036; BG1.05-1WE2P-0007; p. 371

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EGU2007-A-06270; GM11-1TU1O-007; p. 294

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