

EGU General Assembly 2011
Programme Group Programme
SSP – Stratigraphy, Sedimentology & Palaeontology

Monday, 04 April	2
SSP1.2.....	2
SSP1.3.....	2
IG1/BG1.12/SSP2.3.....	4
Tuesday, 05 April	6
CL4.12.....	6
CL4.17/SSP1.5.....	7
GM8.4/OS3.6/SSP1.6/TS4.7.....	8
CL1.10/SSP4.7.....	9
Wednesday, 06 April	12
SSP1.4/IG22.....	12
GD2.1/SSP1.9/TS4.4.....	13
SSP2.1.....	15
SM3.6/SSP2.4/SSS5.8/TS4.5.....	16
TS5.4/BG3.8/SSP2.5.....	18
IG5/BG1.11/CL4.13/GMPV40/SSP4.5.....	19
TS6.1/G3.3/GD5.4/SM1.5.....	22
Thursday, 07 April	28
GM7.6/HS12.5.....	28
SSP1.1.....	29
SSP1.7/GMPV56.....	31
TS4.2/GD2.7/GM7.7/HS12.15/SSP3.2.....	31
BG7.4/SSP3.6.....	33
GM1.2/SSP3.7.....	34
Friday, 08 April	37
SSP3.1.....	37
NH3.11/SSP3.4.....	38

Monday, 04 April

SSP1.2 – Recent advances in fluvial sedimentology and stratigraphy (sponsored by IAS) – Orals

Convener: Andrew Wilson | Co-Conveners: Arnold Reesink, Andreas Rittersbacher, Joanne Venus

Room: 41

Chairperson: Andrew Wilson

- 08:30–08:45 EGU2011-4138
Robert Duller, Gary Hampson, Steven Cain, Nikolas Michael, Andrew Petter, Ruth Robinson, and Philip Allen
 Formulation and validation of a mass-balance framework for fluvial successions
- 08:45–09:00 EGU2011-11262
Neil Davies and Martin Gibling
 Pennsylvanian emergence of anabranching fluvial deposits: the parallel rise of arborescent vegetation and fixed-channel floodplains
- 09:00–09:15 EGU2011-8310
Hemmo Abels, Mary Kraus, Philip Gingerich, and Frederik Hilgen
 Orbital climate forcing of river floodplain sedimentation in the lower Eocene Willwood Formation of the Bighorn Basin, Wyoming (USA)
- 09:15–09:30 EGU2011-9007
 Dilce Rossetti, Ericson Hayakawa, **Thiago Bertani**, Hiran Zani, and Edipo Cremon
 Remote sensing applied to the reconstruction of Amazonian fluvial dynamics in the Quaternary and its relation to tectonics
- 09:30–09:45 EGU2011-8661
Amanda Owen, Gary Nichols, Adrian Hartley, Stephanie Davidson, and Gary Weissmann
 Progradation and development of a distributive fluvial system in the Jurassic Morrison Formation, Colorado Plateau, USA.
- 09:45–10:00 EGU2011-11432
Andreas Rittersbacher, John A. Howell, and Simon J. Buckley
 Using helicopter-based laser scanning to analyse controls on fluvial channel belt architecture in the Blackhawk Formation, eastern Utah, USA

SSP1.2 – Recent advances in fluvial sedimentology and stratigraphy (sponsored by IAS) – Posters

Convener: Andrew Wilson | Co-Conveners: Arnold Reesink, Andreas Rittersbacher, Joanne Venus

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Andreas Rittersbacher

- A499 EGU2011-5903
Sebastien Castelltort
 Slope control on the shape of bars in braided rivers: implication for paleoslope studies.
- A500 EGU2011-12198
Johan Ploug, Morten Holtegaard Nielsen, and Sandra Bollwerk
 How sedimentary processes along glacio fluvial rivers can be applied to determine the origin of the transported sediments
- A501 EGU2011-10354
Dana Homolova, Johanna Lomax, and Kurt Decker
 Building a new late Pleistocene stratigraphy of fluvial terraces in the Budejovice Basin (Czech Republic) using 3D-modelling and OSL-dating
- A502 EGU2011-11236
Kirsten Kennedy and Martin Gibling
 Paleoenvironments of Early Devonian plants and fish in the Campbellton Formation, New Brunswick, Canada: invasion of the land at a classic locality
- A503 EGU2011-5540
Stephane Bodin and Jonathan Wood
 Tracking the fluvial-marine transition within the Lower Cretaceous of the Sahara platform (Africa): Shifting the continental intercalaire paradigm
- A504 EGU2011-13107
Osman Abdullatif
 Facies, Depositional Environments and Sandstone Composition of the Late Ordovician Glacio-fluvial Sanamah Member, Wajid Formation, South West Saudi Arabia

SSP1.3 – Palaeoclimate records from speleothems: analytical techniques, proxies, and application – Orals

Convener: Dirk Hoffmann | Co-Conveners: Denis Scholz

Room: 41

Chairperson: Dirk Hoffmann

- 10:30–10:45 EGU2011-14044
Christoph Spötl, Ronny Boch, Marc Luetscher, and Yuri Dublyansky
 Progress and challenges of speleothem research in alpine caves
- 10:45–11:00 EGU2011-9469
Hubert Vonhof
 Recent advances in fluid inclusion isotope analysis of speleothem calcite
- 11:00–11:15 EGU2011-8183
James Baldini
 Using a high-resolution cave drip water dataset to clarify the link between trace element concentrations in stalagmite calcite and climate
- 11:15–11:30 EGU2011-6193
Michael Rogerson, Dirk Hoffmann, Christoph Spötl, Derek Vance, Anne Osborne, Gina Moseley, Marc Luetscher, and Nuri Fello
 Enhanced humidity in coastal Libya during MIS 3
- 11:30–11:45 EGU2011-4124
Anton Vaks, Oxana Gutareva, Sebastian Breitenbach, Erdenedalai Avirmed, Alexander Osinzev, Andrew Mason, and Gideon Henderson
 \textbf{Siberian and Mongolian paleoclimate: New data from speleothems}
- 11:45–12:00 EGU2011-1426
 Philip van Beynen, **Derek Ford**, and Henry Schwarcz
 Annual laminae as measured using fluorescence in historic stalagmites from Baradla Cave, Aggtelek National Park, Hungary.

SSP1.3 – Palaeoclimate records from speleothems: analytical techniques, proxies, and application – Posters

Convener: Dirk Hoffmann | Co-Conveners: Denis Scholz

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Denis Scholz

- A505 EGU2011-433
Vanessa Johnston, Andrea Borsato, and Christoph Spötl
 Interglacial speleothems from Trentino, Italy: Preliminary dating and stable isotope results.
- A506 EGU2011-864
Isabelle John, William D McCoy, Slobodan Markovi?, and Wilfried Endlicher
 Late-Quaternary Speleothem Records from the Balkan Peninsula - Potential, Objectives and First Results
- A507 EGU2011-3055
Yuri Dublyansky, Alexander Klimchouk, Elisaveta Timokhina, and Christoph Spötl
 Isotopic indications of water-rock interaction in the hypogene Tavrskaya cave, Crimea, Ukraine
- A508 EGU2011-7027
Sylvia Riechelmann, Dieter Buhl, Dana F.C. Riechelmann, Christoph Spötl, Andrea Schröder-Ritzrau, Detlev K. Richter, and Adrian Immenhauser
 Mg-isotope fractionation in a karst system: Field experiments at Bunker Cave (Germany)
- A509 EGU2011-3905
Cristina Veiga-Pires, Bassam Ghaleb, Jean-François Hélie, Delminda Moura, Joaquim Luis, and Claude Hillaire-Marcel
 A first Last Glacial Maximum to Younger Dryas stalagmite record from southern Portugal
- A510 EGU2011-7111
Heather Stoll and the Asturias speleothem Team
 Integrating modern monitoring, cave mapping, and seasonal resolution trace element records in recent speleothems to interpret speleothem climate records from the last millennium to the penultimate glacial cycle in Northwest Spain
- A511 EGU2011-11750
Alexander Baker, James Baldini, and Dave Matthey
 Modelling stalagmite growth rate and oxygen isotope composition
- A512 EGU2011-11772
Harry Rowe, Bruce Dahlin, Hai Cheng, Eugene Perry, Guadalupe Velazquez, and Gregory Springer
 Stalagmites from the Northwest Yucatan Peninsula, Mexico: Progress and Problems with Resolving the Paleoenvironmental Record of the Last Millennium
- A513 EGU2011-13658
Gyöngyvér Szanyi, Szabolcs Leél-?ssy, and Gergely Surányi
 Uranium-series ages from the Pal-voelgyi Cave, Budapest, Hungary

IG1/BG1.12/SSP2.3 – Stable Isotopes in Geosciences - Open Session, Including Blocks of Special Attention (co-organized) – Orals

Convener: Pier De Groot | Co-Conveners: Jan Smit, Ana-Voica Bojar, Erik Kerstel, Mihaela Melinte-Dobrinescu

Room: 41

Chairperson: Ana-Voica Bojar and Erik Kerstel

- 13:30–13:45 EGU2011-7257
Hauke Vollstaedt, Anton Eisenhauer, André Krabbenhöft, Volker Liebetrau, Florian Böhm, Juraj Farkas, Adam Tomasovych, and Ján Veizer
 The Paleozoic $\delta^{88}\text{Sr}$ record of marine carbonates - Implications to ocean carbonate chemistry and mass extinction events
- 13:45–14:00 EGU2011-9560
Jessica Whiteside, Paul Olsen, and Morgan Schaller
 Millennial- to Milankovitch-scale physiognomic and ecological floral changes associated with the end-Triassic extinction, carbon isotopic anomaly, and eruption of the Central Atlantic Magmatic Province (CAMP)
- 14:00–14:15 EGU2011-6088
Martino Giorgioni, Helmut Weissert, Stefano M. Bernasconi, Peter A. Hochuli, Rodolfo Coccioni, and Christina E. Keller
 Orbital control on carbon cycle and oceanography in the mid-Cretaceous greenhouse time
- 14:15–14:30 EGU2011-10983
Mihaela Melinte-Dobrinescu, Marcos A. Lamolda, Enrique Bernárdez, and Kunio Kaiho
 The Cenomanian-Turonian boundary event in the Tethys realm: insights from geochemical and calcareous nannofossil evidences
- 14:30–14:45 EGU2011-4173
Gernot Friedrichs, Nils Andersen, Meike Becker, and Arne Körtzinger
 CRDS-Based Underway Monitoring of Surface Water $\delta^{13}\text{C}(\text{CO}_2)$ During Two Atlantic Transects: Intercomparison and Gas Matrix Effects
- 14:45–15:00 EGU2011-9979
David Balslev-Clausen, Minik T. Rosing, and Nabil Saad
 Carbon Isotopic composition of rocks measured by optical spectroscopy

IG1/BG1.12/SSP2.3 – Stable Isotopes in Geosciences - Open Session, Including Blocks of Special Attention (co-organized) – Posters

Convener: Pier De Groot | Co-Conveners: Jan Smit, Ana-Voica Bojar, Erik Kerstel, Mihaela Melinte-Dobrinescu

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Jan Smit and Mihaela Melinte-Dobrinescu

- A468 EGU2011-12520
Harry Rowe, Rolando Castilleja, Timothy "Jak" Kearns, David Hull, Stephen Ruppel, and Robert Loucks
 Preliminary Chemostratigraphic and Stable Isotopic Records from Aptian-Albian and Cenomanian-Turonian Sequences of South Texas
- A469 EGU2011-1714
Alexander Lukeneder
 New isotope data from the Lower Cretaceous Puez key-section in the Dolomites (Southern Alps; N-Italy)
- A470 EGU2011-6185
Martino Giorgioni, Helmut Weissert, Stefano M. Bernasconi, Peter A. Hochuli, Rodolfo Coccioni, Therese I. Garcia, Christina E. Keller, and Maria Rose Petrizzo
 Long- and short-term paleoceanographic changes in the Western Tethys and the North Atlantic during the mid-Cretaceous greenhouse time
- A471 EGU2011-9680
Thomas Steuber
 Strontium-isotope stratigraphy of Tethyan Late Cretaceous carbonate platforms: Numerical ages constrain the evolution of major carbonate producers
- A472 EGU2011-3692
Ana-Voica Bojar, Stanislaw Halas, Hans-Peter Bojar, Dan Grigorescu, and Stefan Vasile
 Depositional age and palaeoclimatic signal, Upper Cretaceous continental deposits, Haeg basin, South Carpathians: isotopic and lithostratigraphic evidences
- A473 EGU2011-10935
Ana-Voica Bojar and Mihaela Carmen Melinte-Dobrinescu
 The Cretaceous-Tertiary boundary in the East Carpathians, Romania: geochemical, mineralogical and nannoplankton evidence

- A474 EGU2011-5576
Michael Wagreich, Johann Egger, Veronika Koukal, and Mohammed Omar
 The Paleocene/Eocene boundary in a high-frequency turbiditic setting (Gosau Group, Austria)
- A475 EGU2011-5697
Sanem Açıkalın, Ömer Yılmaz, Jan Smit, Faruk Ocakoğlu, Eliana Fornaciari, Hubert Vonhof, and Sevinç Özkan Altın
 Isotopic and Paleontological Investigation of the K-Pg Boundary Section from the Central Sakarya Region (NW Turkey)
- A476 EGU2011-1220
Konstantin Horkel, Thomas Unterweissacher, and Fritz Ebner
 Can C-isotope fractionation of cryptocrystalline magnesite be controlled by temperature ?
- A477 EGU2011-6760
Thomas Unterweissacher and Fritz Ebner
 Correlation of stable isotope thermometry and "classical" geothermometers applied on selected ore mineralizations of the Eastern Alps
- A478 EGU2011-7573
Stephan Klemme, Horst Marschall, Dorrit Jacob, Stefan Prowatke, and Thomas Ludwig
 Some comments on the partitioning of trace elements and the fractionation of boron isotopes between mica and tourmaline
- A479 EGU2011-7686
Franziska Aemisegger, Harald Sodemann, Stephan Pfahl, Patrick Sturm, and Heini Wernli
 Investigating high-frequency variations in stable isotope composition of atmospheric water vapour
- A480 EGU2011-8077
Marzia Michelini, Franco Cucchi, Onelio Flora, Barbara Stenni, Francesco Treu, and Luca Zini
 Isotopic composition of precipitation of Friuli-Venezia Giulia (Northeastern Italy)
- A481 EGU2011-6782
 Janek Landsberg, Daniele Romanini, Elisabeth Iasaksson, Kim Holmen, Harro Meijer, and **Erik Kerstel**
 Continuous On-Line Water Vapor Isotope Measurements In Antarctica
- A482 EGU2011-12742
Nabil Saad, Doug Kuramoto, Herb Tobias, Bruce Richman, Tom Brenna, and Richard Zare
 Unique Laser Spectroscopic Approach for High-Precision Compound-Specific Isotope Analysis of $^{13}\text{C}/^{12}\text{C}$ and D/H of Combustion Products
- A483 EGU2011-13002
 Shaun Barker, Gregory Dipple, Feng Dong, and **Douglas Baer**
 Use of laser spectroscopy to measure the $^{13}\text{C}/^{12}\text{C}$ and $^{18}\text{O}/^{16}\text{O}$ compositions of carbonate minerals

Tuesday, 05 April

CL4.12 – Advances in Quaternary Geochronology (co-listed) – Orals

Convener: Geoff Duller | Co-Conveners: Irka Hajdas, Thorsten Kiefer, Andreas Lang

Room: 13

Chairperson: Thosten Kiefer

- 13:30–14:00 EGU2011-13982
Dirk Hoffmann
 MC-ICPMS U-Th isotope measurements for precise speleothem chronologies in Quaternary climate research
- 14:00–14:15 EGU2011-3735
Dominique Raynaud, Vladimir Lipenkov, and Marie-France Loutre
 Dating ice cores by local insolation tuning
- 14:15–14:30 EGU2011-12006
Esther Ruth Gudmundsdóttir, Gudrún Larsen, and Jón Eiríksson
 Tephrochronology as a tool for precise dating and correlation of Quaternary records
- 14:30–14:45 EGU2011-13468
Mark Sier, Wil Roebroeks, Mark Dekkers, Corrie Bakels, and Sabine Gaudzinski-Windheuser
 Mismatch between MIS 5e and the Last Interglacial (Eemian) of Central Europe
- 14:45–15:00 EGU2011-6793
Silke Schmidt, Ralf Hetzel, Sumiko Tsukamoto, and Manfred Frechen
 10Be, 10C and OSL dating of alluvial sediments from the eastern Andes

CL4.12 – Advances in Quaternary Geochronology (co-listed) – Posters

Convener: Geoff Duller | Co-Conveners: Irka Hajdas, Thorsten Kiefer, Andreas Lang

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Thosten Kiefer

- XY365 EGU2011-594
Baolin Pan, Chaolu Yi, and Zhongping Lai
 Environment change records of delta and sand wedge of lakeshore at LingGo Co of Qiangtang plateau
- XY366 EGU2011-1870
Lovisa Zillén, Conny Lenz, and Tom Jilbert
 Stable lead (Pb) isotopes and concentrations - a useful independent dating tool for Baltic Sea sediments
- XY367 EGU2011-3409
Rienk H. Smittenberg, Maximilian P.W. Schneider, Irka Hajdas, Wacker Lukas, Stefano M. Bernasconi, and Michael W.I. Schmidt
 Molecular-scale radiocarbon dating of charcoal and black carbon
- XY368 EGU2011-3712
 Marie-France Loutre, Vladimir Lipenkov, **Dominique Raynaud**, and Amaelle Landais
 Dating ice cores by local insolation tuning: A comparison between wavelet analysis and peak-to-peak matching techniques
- XY369 EGU2011-4906
Merle Gierga, Axel Birkholz, Rienk Smittenberg, Irka Hajdas, Lukas Wacker, Nao Ohkouchi, and Stefano M. Bernasconi
 Compound-specific radiocarbon analyses of individual fatty acids isolated with high performance liquid chromatography
- XY370 EGU2011-5074
Octavian G. Duliu, Constantin Costea, Ana Danis, and Stefan A. Szobotka
 Th-230 - excess and Pa - 231 excess geochronology of manganese nodules
- XY371 EGU2011-8248
Romain Delunel, Didier Bourlès, Peter van der Beek, and Emmanuel Paquet
 Cosmic-ray attenuation by seasonal snow cover revealed by neutron-detector monitoring: implications for cosmic-ray exposure studies in mountainous areas
- XY372 EGU2011-8747
Pierre Sabatier, Jean Louis Reyss, Jason M. Hall-Spencer, Christophe Colin, Norbert Frank, Louise Bordier, and Eric Douville
 Growth rate of deep-sea Scleractinian corals (*Madrepora oculata*, *Lophelia pertusa*) inferred from 210Pb-226Ra chronology

- XY373 EGU2011-8820
David Domínguez-Villar, Jane Willenbring, Rosa Carrasco, and Javier Pedraza
 Sub-aerial granite and gneiss weathering rates in Spanish Central System and their implications for terrestrial cosmogenic nuclide dating
- XY374 EGU2011-10418
Koen Beerten, Koen Deforce, and Dirk Mallants
 Age constraints for pedological and hydrological processes in natural analogues of earth covers for waste disposal: case study from a sediment-soil sequence in Dessel, Northern Belgium
- XY375 EGU2011-11485
 Véronique Michel, **Chrystèle Véрати**, Guanjun Shen, Chuan-Chou Shen, and Sylvain Gallet
 230Th/234U and 40Ar/39Ar dating of Orgnac 3, a Quaternary Prehistoric Site in Ardèche, France
- XY376 EGU2011-12412
Agnes Novothny, Zsófia Ruzsáiczay-Rüdiger, Manfred Frechen, Gabor Csillag, and Edit Thamone Bozso
 Dating Danube terraces with IRSL and cosmogenic 10Be exposure ages
- XY377 EGU2011-12461
Adam Michczyński and Irka Hajdas
 Complex statistical model of the Lake Sopensee chronology
- XY378 EGU2011-13986
Irka Hajdas, Georges Bonani, Wallace S. Broecker, Elizabeth Clark, Michael Molnar, Carla Taricco, Gulianna Vivaldo, and Lukas Wacker
 Radiocarbon dating of carbonate samples—different treatment methods compared

CL4.17/SSP1.5 – Major achievements and perspectives in scientific ocean and continental drilling (co-organized) –

Orals

Convener: Ruediger Stein | Co-Conveners: Ulrich Harms, Ursula Röhl, Thomas Wiersberg

Room: 19

Chairperson: R. Stein, U. Harms

- 08:30–08:45 EGU2011-13674
Thomas Felis, Ute Merkel, Ryuji Asami, Pierre Deschamps, Ed C. Hathorne, Martin Kölling, Edouard Bard, Guy Cabioch, Nicolas Durand, Matthias Prange and the coral & modelling Team
 Pronounced interannual variability in tropical South Pacific temperatures during Heinrich stadial 1
- 08:45–09:00 EGU2011-1764
Peter Clift
 Scientific Ocean Drilling and the Evolution of the Asian Monsoon
- 09:00–09:15 EGU2011-9279
Joanna Morgan
 Proposed IODP/ICDP drilling of the Chicxulub impact crater
- 09:15–09:30 EGU2011-9523
Catalina Gebhardt, Maaret Kukkonen, Volker Wennrich, Tim Cook, Olaf Juschus, Frank Niessen, Martin Melles, and El'gygytgyn Scientific Party
 Distribution and frequency of mass transport deposits in Lake El'gygytgyn, Chukotka, NE Siberia, and their inferred triggering mechanisms
- 09:30–09:45 EGU2011-10929
Thomas Litt, Flavio Anselmetti, Namik Cagatay, Rolf Kipfer, Sebastian Krastel-Gudegast, and Sefer Örcen
 Lake Van Drilling Project 'PaleoVan' (ICDP): A long continental sedimentary record in Eastern Anatolia of the last ca 400.000 years. Scientific drilling operation in 2010 and first results
- 09:45–10:00 EGU2011-3650
 Tim Freudenthal, Dierk Hebbeln, Mahyar Mohtadi, Gema Martínez-Méndez, and **Gerold Wefer**
 70 m double hole drillings for paleoceanographic research with the sea floor drill rig MeBo

CL4.17/SSP1.5 – Major achievements and perspectives in scientific ocean and continental drilling (co-organized) –

Posters

Convener: Ruediger Stein | Co-Conveners: Ulrich Harms, Ursula Röhl, Thomas Wiersberg

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: R. Stein, U. Harms, U. Roehl, T. Wiersberg

- XY379 EGU2011-11209
 Maaret Kukkonen, **Catalina Gebhardt**, Volker Wennrich, Olaf Juschus, Tim Cook, Martin Melles, and El'gygytgyn Scientific Party
 Classification and characteristics of mass movement deposits in the 3.6 Ma sediment record of Lake El'gygytgyn, Chukotka, NE Siberia

- XY380 EGU2011-12194
Volker Wennrich, **Catalina Gebhardt**, Maaret Kukkonen, Carsten Meyer-Jacob, Pavel Minyuk, Peter Rosén, Julie Brigham-Grette, Martin Melles, and El'gygytgyn Scientific Party
Initial geochemistry and FTIRS data of deep-drilling cores from Lake El'gygytgyn, NE Siberia, and their implications for the Pliocene and Quaternary climate history of the Siberian Arctic
- XY381 EGU2011-10046
Catalina Gebhardt, Ohlendorf Christian, Hahn Annette, Kliem Pierre, Zolitschka Bernd, and PASADO Science Team
Dynamic history of sediment deposition in Laguna Potrok Aike, Argentina
- XY382 EGU2011-8807
Markus Oehlerich, Christoph Mayr, Andreas Lücke, Wolfgang W. Schmahl, Christian Ohlendorf, Bernd Zolitschka, and Pasado Science Team
Isotopic composition ($\delta^{13}\text{C}$, $\delta^{18}\text{O}$) of carbonates from the ICDP-site Laguna Potrok Aike: origin, methodology and potential for environmental reconstruction
- XY383 EGU2011-1847
Deniz Cukur, Sebastian Krastel, Daniel Winkelmann, Thomas Wonik, and Thomas Litt
Sedimentary Processes in Lake Van: First results from a joint interpretation of seismic and drilling data
- XY384 EGU2011-4440
Ulrich Kotthoff, Francine McCarthy, Miriam Katz, Ross Williams, and Ryan Zanatta
Palynological results from the New Jersey shallow shelf: vegetation development on the Atlantic Coastal Plain and estimation of water depth and site-shoreline distance
- XY385 EGU2011-13714
Thomas Westerhold and **Ursula Röhl**
Pacing of middle Eocene climate during the Middle Eocene Climate Optimum and the Chron C19r event - new results from the expanded ODP Site 1260 in the tropical western Atlantic.
- XY386 EGU2011-13694
Nabil Khélifi and Michael Sarnthein
Late Pliocene age control and composite depth at ODP Site 982, revisited
- XY387 EGU2011-13664
Jens Hefter, B. David. A. Naafs, Jaap S. Sinninghe-Damsté, and **Ruediger Stein**
The Biomarker Inventory, Trace, and Source of Heinrich Events and Heinrich-type Layers (MIS 8-16) in the North Atlantic
- XY388 EGU2011-13666
Michael Schreck, Jens Matthiessen, and **Ruediger Stein**
Towards a Neogene Palynostratigraphy of the High Northern Latitudes: A Magnetostratigraphic Calibration of Dinoflagellate Cyst Datums in ODP Hole 907A from the Iceland Sea
- XY389 EGU2011-5502
Ruediger Stein
The Great Challenges in Arctic Ocean Paleoceanography and Scientific Drilling
- XY390 EGU2011-9957
Achim Kopf, Eiichiro Araki, Sean Toczko and the Exp 332 science party Team
Advanced observatory installations in the Nankai Trough Seismogenic Zone Experiment - Results from IODP Exp332
- XY391 EGU2011-13719
Hans-Joachim Wallrabe-Adams, Michael Diepenbroek, Hannes Grobe, Robert Huber, Uwe Schindler, and Jamus Collier
IODP Information Service

GM8.4/OS3.6/SSP1.6/TS4.7 – Seafloor Expression of Tectonic and Geomorphic Processes (co-organized) – Orals

Convener: Sebastian Krastel | Co-Conveners: John K. Hillier, C.L. Jacobs, Dina Vachtman

Room: 22

Chairperson: S. Krastel, J.K. Hillier

- 10:30–10:45 EGU2011-1706
Myriam Janin, Christophe Hemond, and Marcia Maia
The Capricorn/Australian plates' suture highlighted by seamounts morphology
- 10:45–11:00 EGU2011-8329
Ian Watkinson, Robert Hall, and Farid Ferdian
Structural evolution of the southern Molucca Sea, Indonesia: Insights from multibeam bathymetry
- 11:00–11:15 EGU2011-1831
Kan-Hsi Hsiung and Ho-Shing Yu
Comparison of the sediment dispersal routes between offshore SW Taiwan and Huon Gulf west of Papua New Guinea in incipient oblique arc-continental collision zones

- 11:15–11:30 EGU2011-9926
Gueorgui Ratzov, Jean-Yves Collot, Sébastien Migeon, Boris Marcaillou, and Jean-Frédéric Lebrun
 Evidences for a sub-marine active fault along the North-Ecuador South Colombia oblique-convergent margin: implication for fault maturity and tectonic escape
- 11:30–11:45 EGU2011-9731
Domenico Ridente, Eleonora Martorelli, and Francesco L. Chiocci
 The problem of the 1908 Reggio and Messina earthquake and tsunami sources. A geomorphic perspective
- 11:45–12:00 EGU2011-491
Mustafa Ergin, Emel Bayhan, and Abidin Temel
 Variations in sedimentation rates in the eastern Marmara Sea (Turkey) as related to bottom morphology, active tectonism, sea-level changes and sediment input patterns

GM8.4/OS3.6/SSP1.6/TS4.7 – Seafloor Expression of Tectonic and Geomorphic Processes (co-organized) – Posters

Convener: Sebastian Krastel | Co-Conveners: John K. Hillier, C.L. Jacobs, Dina Vachtman

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: C.L. Jacobs, D. Vachtman

- A136 EGU2011-8478
Antonio Cattaneo, Nathalie Babonneau, Alessandra Asioli, Karim Yelles, Jacques Déverchère, Guillaume Jamet, and Ricardo Silva Jacinto
 Searching for the seafloor signature of the May 21, 2003 Boumerdès earthquake offshore central Algeria
- A137 EGU2011-6394
Hsui-may Lin and Char-Shine Liu
 Deep Structures of the Forearc Region at the Western End of the Ryukyu Subduction-Collision Zone Offshore Eastern Taiwan
- A138 EGU2011-10019
Anne Krabbenhoef, Wilhelm Weinrebe, Heidrun Kopp, Ernst Flueh, Stefan Ladage, Cord Papenberg, and Lars Planert
 Morphological structures relate to the location and extent of the seismogenic zone - bathymetric studies of the Sunda margin, Indonesia
- A139 EGU2011-1832
Ho-Shing Yu and Kan-Hsi Hsiung
 Morpho-sedimentary features and longitudinal sediment transport in the Taiwan-Luzon region
- A140 EGU2011-3166
Monika Breitzke, Wilfried Jokat, Ralph Krockner, Mike Watkeys, and Errol Wiles
 High-resolution bathymetry and shallow acoustic images of current-controlled sedimentary processes in the Southern Mozambique Channel
- A141 EGU2011-8058
Benedikt Weiß, Christian Hübscher, Luis Batista, Ali Dehghani, Thomas Lüdmann, and Jonas Wagner
 Hotspot dominated rifting - The instance of São Miguel (south-eastern Terceira Rift, Azores)
- A142 EGU2011-11755
Anne Bernhardt, Zane R. Jobe, Marty Grove, and Donald R. Lowe
 Paleogeography of an Ancient Deep-Marine Foreland Basin, Upper Cretaceous Cerro Toro Formation, Magallanes Basin - Insights from U/Pb Geochronology and Strontium Isotope Stratigraphy
- A143 EGU2011-10032
Gemma Fay, Andrew Fowler, and Peter Howell
 Prediction of Ignition of a Turbidity Current in a Submarine Canyon Using a Reduced Model
- A144 EGU2011-3033
László Körtvélyessy
 Prediction of earthquakes

CL1.10/SSP4.7 – Quaternary palaeoenvironments of Africa (co-organized) – Orals

Convener: Brian Chase | Co-Conveners: Stephanie Mills

Room: 25

Chairperson: Brian Chase, Stephanie Mills

- 10:30–10:45 EGU2011-9063
Rik Tjallingii, Jeroen van der Lubbe, Isla S. Castañeda, Stefan Schouten, Yiming Wang, Ralph R. Schneider, and Geert-Jan Brummer
 Sedimentary evolution and climate history of SE Africa (Zambezi River region) since Marine Isotope Stage 3

- 10:45–11:00 EGU2011-7253
Aline Govin, Ulrike Holzwarth, David Heslop, Lara Ford Keeling, Matthias Zabel, Stefan Mulitza, James A. Collins, and Cristiano M. Chiessi
 Tracing African and South American terrigenous input from the modern distribution of major elements in Atlantic surface sediments (35°N–50°S)
- 11:00–11:15 EGU2011-8674
Josephine Joordens, Hubert Vonhof, Craig Feibel, Lucas Lourens, Jeroen van der Lubbe, Guillaume Dupont-Nivet, Mark Sier, Gareth Davies, and Dick Kroon
 An astronomically-tuned climate framework for hominins in the Turkana Basin
- 11:15–11:30 EGU2011-188
Martin Trauth, Mark Maslin, Alan Deino, Annett Junginger, Moses Lesoloyia, Eric Odada, Daniel Olago, Lydia Olaka, Manfred Strecker, and Ralph Tiedemann
 Human evolution in a variable environment: the amplifier lakes of Eastern Africa
- 11:30–11:45 EGU2011-9144
Ulrike Holzwarth, Lydie Dupont, Jürgen Möbius, Karin A. F. Zonneveld, and Michael Schulz
 Western Sahel hydrology and land use over the last three millennia: natural versus anthropogenic influences
- 11:45–12:00 EGU2011-8080
Kerstin Prömmel and Ulrich Cubasch
 Past changes in African climate and vegetation based on regional climate simulations

CL1.10/SSP4.7 – Quaternary palaeoenvironments of Africa (co-organized) – Posters

Convener: Brian Chase | Co-Conveners: Stephanie Mills

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 15:30–17:00

Chairperson: Stephanie Mills, Brian Chase

- XY221 EGU2011-5870
Nina Boesche and Martin Trauth
 Geological Mapping via Remote Sensing in the Chew Bahir Rift, Southern Ethiopia
- XY222 EGU2011-13641
Brian Chase, Michael Meadows, Louis Scott, Paula Reimer, Arnoud Boom, Andrew Carr, Lynne Quick, Verushka Valsecchi, and Loic Truc
 Developments in the use of rock hyrax middens as southern African palaeoenvironmental archives
- XY223 EGU2011-12005
Paula G. C. do Amaral, Annie Vincens, Joel Guiot, Guillaume Buchet, Pierre Deschamps, and Florence Sylvestre
 Vegetation reconstruction to the mid-Holocene transition in Sahel and Sahara: first palynological results of a lacustrine record from the Mega-Lake Chad
- XY224 EGU2011-11094
Kerstin Hürkamp, Jörg Völkel, Klaus Heine, Oliver Bens, Matthias Leopold, and Jennifer Winkelbauer
 Late Quaternary Environmental Changes from Aeolian and Fluvial Geoarchives in the Southwestern Kalahari, South Africa: Implications for African Intertropical Convergence Zone (ITCZ) and Southern Hemisphere Westerly Wind (SWW) Dynamics
- XY225 EGU2011-1278
Henning Kuhnert and Stefan Mulitza
 Multidecadal variability in eastern tropical Atlantic sea surface temperatures over the past 1700 years
- XY226 EGU2011-820
Willemijn Quaijtaal, Francesca Sangiorgi, Timme Donders, Henk Brinkhuis, and The INATEX group
 Late Quaternary environmental and oceanographical change in the Mozambique Channel (east Africa): a palynological approach
- XY227 EGU2011-8855
Jeroen van der Lubbe, Rik Tjallingii, Isla Castañeda, Geert-Jan Brummer, Dick Kroon, Simon Jung, and Ralph Schneider
 Major reorganization in the transport pathway of Zambezi River sediments along and across the Mozambique Shelf during the last glacial-interglacial transition
- XY228 EGU2011-9252
Hubert Vonhof, Josephine Joordens, Marlijn Noback, Jeroen van der Lubbe, and Craig Feibel
 Paleo-environmental reconstruction in the East African Rift: how to interpret stable isotope ratios of Early Pleistocene carbonate fossils from the Turkana Basin?
- XY229 EGU2011-3521
Marius Walter and Martin Trauth
 High concentrations of Acheulean handaxes from the Kariandusi, Gadeb and Olorgesailie prehistoric sites: reworked artifacts or in situ tool factories?

Wednesday, 06 April

SSP1.4/IG22 – Can carbon isotopes solve global carbon cycle conundrums? (including Jean Baptiste Lamarck Medal Lecture) (sponsored by IAS) (co-organized) – Orals

Convener: Bas van de Schootbrugge | Co-Conveners: Jonathan Payne, Katja Meyer, Aviv Bachan-Dovrat, Darren Gröcke, João Trabucho Alexandre

Room: 41

Chairperson: Katja Meyer

- 15:30–16:15 EGU2011-14172
Malcolm B. Hart
 Micropalaeontological Response to Cretaceous Oceanic Anoxic Events (Jean Baptiste Lamarck Medal Lecture)
- 16:15–16:30 EGU2011-1212
Adam Maloof, Susannah M. Porter, John L. Moore, Jahan Ramezani, Samuel A. Bowring, Frank O. Dudas, John A. Higgins, David A. Fike, and Michael P. Eddy
 The earliest Cambrian record of animals and ocean geochemical change
- 16:30–16:45 EGU2011-1851
 Jean Guex, Blair Schoene, Annachiara Bartolini, Jorge Spangenberg, Urs Schaltegger, Luis O'Dogherty, David Taylor, Viorel Atudorei, and **Hugo Bucher**
 Geochronological constraints on the post-extinction recovery of the ammonoids and on the carbon isotope cycle during the Early Jurassic
- 16:45–17:00 EGU2011-5300
Aviv Bachan, Bas van de Schootbrugge, Jens Fiebig, and Jonathan Payne
 The end-Triassic mass extinction: new isotope constraints from Italy
- 17:00–17:15 EGU2011-345
Alberto Trecalli, Jorge Spangenberg, Thierry Adatte, Karl B. Föllmi, and Mariano Parente
 The response of the Apenninic Carbonate Platform (southern Italy) to the Early Toarcian oceanic anoxic event
- 17:15–17:30 EGU2011-12608
 Peter Swart, **Martin Kennedy**, and Amanda Oehlert
 When are Global Changes in the Carbon Isotopic Composition Not Indicative of Global Processes Involving the Global Carbon Cycle?

SSP1.4/IG22 – Can carbon isotopes solve global carbon cycle conundrums? (including Jean Baptiste Lamarck Medal Lecture) (sponsored by IAS) (co-organized) – Posters

Convener: Bas van de Schootbrugge | Co-Conveners: Jonathan Payne, Katja Meyer, Aviv Bachan-Dovrat, Darren Gröcke, João Trabucho Alexandre

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Bas van de Schootbrugge

- A474 EGU2011-359
Nadezhda Alfimova
 Carbon isotope signature in carbonate zone of Palaeoproterozoic weathering profile (C.Karelia, Fennoscandinavian shield)
- A475 EGU2011-1696
 Jean Guex, Annachiara Bartolini, Jorge Spangenberg, Blair Schoene, Viorel Atudorei, and Urs Schaltegger
 The age of the major $\delta^{13}\text{C}_{\text{org}}$ and $\delta^{34}\text{S}$ Hettangian excursions at Kennecott Point (Queen Charlotte Islands, Canada)
- A476 EGU2011-1750
Annette E. Götz
 Eustatic control of conodont migration and phytoplankton distribution patterns in the Anisian of the Peri-Tethys Basin
- A477 EGU2011-2545
Hassan M. Khozyem, Thierry Adatte, Jorge E. Spangenberg, Gerta Keller, and Karl Foellmi
 Geochemical and mineralogical evidences for intensive weathering during the PETM
- A478 EGU2011-11936
Chloé Morales, Ariane Kujau, Ulrich Heimhofer, Joerg Mutterlose, Jorge E. Spangenberg, Thierry Adatte, Stephane Westermann, Izabela Ploch, and Karl B. Foellmi
 Environmental and climatic change during the Valanginian event: Case study of the Wawal section, Polish Basin

- A479 EGU2011-7218
Brahimsamba Bomou, Thierry Adatte, Jorge Spangenberg, Gerta Keller, and Karl Föllmi
 Expression of the Coniacian-Santonian Oceanic Anoxic Event (OAE3) in two potential GSSP sections : Olazagutia, (Spain) and Ten Mile Creek - Arbor Park, (USA)
- A480 EGU2011-11894
Guillaume Suan, Wolfgang Oschmann, Jens Fiebig, and Bas van de Schootbrugge
 New astronomical timescale for the Toarcian carbon isotope excursions from Dotternhausen, SW Germany
- A481 EGU2011-454
Baptiste Suchéras-Marx, Abel Guihou, Fabienne Giraud, Emanuela Mattioli, Christophe Lécuyer, and Bernard Pittet
 The Middle Jurassic Watznaueria (coccolith-type algae) diversification impact on carbon cycle and bulk carbonate composition
- A482 EGU2011-3110
Ian Jarvis, Darren Gröcke, Hugh Jenkyns, John Lignum, Kate Olde, Martin Pearce, and Bruce Tocher
 OAE2 from Tethys to the Boreal Sea: linking marine productivity and climate change
- A483 EGU2011-4938
Sofie Lindström, Bas van de Schootbrugge, Karen Dybkjær, Gunver Krarup Pedersen, Jens Fiebig, and Lars Henrik Nielsen
 Carbon cycling at the Triassic-Jurassic boundary in the Danish Basin
- A484 EGU2011-9220
Katja Meyer, Meiyi Yu, and Jonathan Payne
 Paired organic and inorganic carbon isotope evidence for a coupled Early Triassic carbon cycle
- A485 EGU2011-5715
Ariane Kujau, Ulrich Heimhofer, Christian Ostertag-Henning, Benjamin Gréselle, Thierry Adatte, Jörg Mutterlose, Chloé Morales, and Izabela Ploch
 The role of the terrestrial realm during the Valanginian Carbon Isotope Excursion - Indications from palynological and organic-geochemical investigations (Vocontian Basin, SE France; Carpathian seaway, Central Poland)

GD2.1/SSP1.9/TS4.4 – Basin Dynamics (co-organized) – Orals

Convener: Magdalena Scheck-Wenderoth | Co-Conveners: Francois Roure

Room: 22

Chairperson: n.n.

- 13:30–13:45 EGU2011-5352
Christian Heine, Simon Williams, and R. Dietmar Müller
 Intracontinental rifts and plate kinematic models - towards a global deforming plate model
- 13:45–14:00 EGU2011-7487
Susanne Buiter, Bernhard Steinberger, Sergei Medvedev, and Joya Tetreault
 Could the mantle cause subsidence of the Congo Basin?
- 14:00–14:15 EGU2011-3588
Yuriy P. Maystrenko and Magdalena Scheck-Wenderoth
 Deep structure of the Central European Basin System and adjacent areas based on integrated 3D gravity and 3D thermal analyses
- 14:15–14:30 EGU2011-2265
Heijn van Gent, Frank Strozyk, Janos Urai, and Martin de Keijzer
 Seismic interpretation of the internal geometry of the Zechstein evaporites - Large scale structures and internal stability
- 14:30–14:45 EGU2011-1341
 Gerald Gabriel, **David Tanner**, Nicole Martini, Hermann Buness, and Charlotte M. Krawczyk
 Three-dimensional basin analysis of the Heidelberg Basin, Upper Rhine Graben
- 14:45–15:00 EGU2011-3433
Nicolas Pinet and Denis Lavoie
 Geological and geophysical setting of the intracratonic Hudson Bay basin, Canada
- Chairperson: n.n.
- 15:30–15:45 EGU2011-2386
Nina S. C. Simon, Julia Semprich, and Yuri Y. Podladchikov
 A phase transition model for basins
- 15:45–16:00 EGU2011-12011
Kenni Dinesen Petersen, Søren Bom Nielsen, Ole Rønø Clausen, Randell Stephenson, Hans Thybo, and Taras Gerya
 Extensional basin evolution in the presence of small-scale convection: Subsidence and stratigraphy

- 16:00–16:15 EGU2011-12996
Ebbe Hartz, Sergei Medvedev, Dani W. Schmid, Lars Ruepke, and Bjørn Tore Larsen
 Basin formation and inversion: The role of shear heating, tectonic pressure and hydration/melting in the lithosphere
- 16:15–16:30 EGU2011-2517
Judith Sippel, Magdalena Scheck-Wenderoth, and Björn Lewerenz
 Predicting the lithosphere-scale thermal field for the Beaufort-Mackenzie Basin (Arctic Canada)
- 16:30–16:45 EGU2011-2048
Delphine Rouby, Thierry Nalpas, Paul Jermannaud, Cécile Robin, Francois Guillocheau, and Stephane Raillard
 3D kinematics of gravity driven deformation in large deltas and control by the delta front migration : the case of the Plio-Pleistocene of the Eastern Niger Delta
- 16:45–17:00 EGU2011-10223
Nikolai Lopatin, Ilya Tikhonov, Ksenia Sitar, Tamara Emets, Vasiliy Kalabin, and Sergey Bakaikin
 Basin dynamics and petroleum system modeling for Upper Proterozoic source rocks in southern part of the East Siberian platform

GD2.1/SSP1.9/TS4.4 – Basin Dynamics (co-organized) – Posters

Convener: Magdalena Scheck-Wenderoth | Co-Conveners: Francois Roure

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- A42 EGU2011-2928
Julia Autin, Magdalena Scheck-Wenderoth, Markus J. Loegering, Zahie Anka, Eduardo Vallejo, Jorge F. Rodriguez, Denis Marchal, Fabian Dominguez, Christian Reichert, and Rolando di Primio
 Crustal structure of the Colorado Basin from 3D gravity modelling
- A43 EGU2011-2982
Magnus Wangen, Rolf Mjelde, and Jan Inge Faleide
 The extension of the Vøring margin (NE Atlantic) in case of different degrees of magmatic underplating
- A44 EGU2011-3343
 Christina von Nicolai, **Björn Lewerenz**, and Magdalena Scheck-Wenderoth
 Modelling the Tectonic History of Sedimentary Basins by Integration of 3D Backstripping and Thermal Subsidence
- A45 EGU2011-12645
Helen Doherty and Graham Williams
 The Rheic Ocean Gondwana passive margin: insights from structural analysis and stratigraphic response
- A46 EGU2011-11631
Eun Young Lee and In-Chang Ryu
 Backstripping analysis of the Kachi-1 well in the Gunsan Basin in Yellow Sea, offshore Korea
- A47 EGU2011-11741
Eun Young Lee
 Quantification of extension (?) and Miocene uplift of the Gunsan Basin in the Yellow Sea, offshore Korea
- A48 EGU2011-3608
Abir Chihaoui, Etienne Jaillard, and Jean-Louis Latil
 Sedimentologic and paleoenvironmental constraints on the structural evolution of the southern Tethyan margin in Tunisia during the Lower Cretaceous
- A49 EGU2011-6059
Ole R Clausen, Søren B. Nielsen, David L. Egholm, and Bartosz Golewski
 Cenozoic structures and the tectonic evolution of the eastern North Sea
- A50 EGU2011-3598
Magdalena Scheck-Wenderoth and Yuriy Maystrenko
 Shallow and deep controls on the thermal structure of basins - predictions from data-based large-scale 3D models
- A51 EGU2011-10539
Vera Noack, Magdalena Scheck-Wenderoth, Björn Lewerenz, and Mauro Cacace
 How sensitive are thermal models? A 3D case study for the area of Brandenburg
- A52 EGU2011-3065
Björn Onno Kaiser, Mauro Cacace, Magdalena Scheck-Wenderoth, and Björn Lewerenz
 Regional scale 3D modelling of the coupled fluid flow and heat transfer of the Northeast German Basin
- A53 EGU2011-2495
Yvonne Cherubini, Mauro Cacace, Magdalena Scheck-Wenderoth, Mando Guido Blöcher, and Björn Lewerenz
 Impact of single faults on the fluid flow and heat transport: Results from 3D finite element simulations

- A54 EGU2011-8494
Alban Souche, Torgeir B. Andersen, Marcin Dabrowski, and Sergei Medvedev
Modelling heat budget and heat transfer in supra-detachment basins: example from the Solund Devonian basin of western Norway
- A55 EGU2011-10591
Shaowen Liu and Liangshu Wang
Thermal regime of Tarim basin, northwest China
- A56 EGU2011-3817
Charles Aubourg, Francois Sapin, Manuel Pubellier, Dominique Janots, Myriam Kars, Abdelatif Lahfid, Jean Pierre Pozzi, and Jean-Claude Ringenbach
Toward the use of a new and fast maturity indicator in very low-grade metamorphic claystones from the NW Borneo wedge.
- A57 EGU2011-11202
Rosie Smithells, Stuart Egan, Stuart Clarke, Geoff Kimbell, Ken Hitchen, and Howard Johnson
Evolution of the Rockall Trough and the impact of thermal anomalies: A numerical modelling approach
- A58 EGU2011-4002
Sveva Corrado, **Lea Di Paolo**, Luca Aldega, and Maria Mastalerz
Thermal evolution of the Meso-Cenozoic pelagic basin of Mt. Judica (Eastern Sicily) by means of FTIR spectroscopy on organic matter and X-ray diffraction analysis on clay mineral assemblages: implications for burial and exhumation history
- A59 EGU2011-7059
Søren B. Nielsen, Ole R. Clausen, Kerry Gallagher, and Niels Balling
Testing models of basin inversion in the eastern North Sea using exceptionally accurate thermal and maturity data
- A60 EGU2011-7156
Stefan Nagel, Sébastien Castelltort, Willett Sean, Boris Kaus, Frédéric Mouthereau, and Andrew Tien-Shun Lin
Facies trends in the western foreland basin of Taiwan: depositional framework and paleogeographic implications from Miocene to present
- A61 EGU2011-3993
Sveva Corrado, Luca Aldega, Valentina Cantarelli, Antonio Casas-Sainz, Chiara Invernizzi, and Massimiliano Zattin
Cenozoic flexure of the Iberia plate and foreland basin subsidence of the Hecho Group in the Western Pyrenees (Spain): constraints from burial and thermal evolution of pre- and syn-orogenic sequences by means of fluid inclusions, vitrinite reflectance, XR
- A62 EGU2011-2273
Lidia Rodriguez, Julia Cuevas, and Jose Maria Tubía
Structural evolution of the Sierras Interiores between the Aragon and Tena valleys (south pyrenean basin, central Pyrenees)
- A63 EGU2011-4656
Tatsuya Ishiyama, Hiroshi Sato, and Naoko Kato
Active intracontinental deformation by oblique subduction of corrugated oceanic slab, Kinki Triangle, central Japan
- A64 EGU2011-13414
György Pogácsás, Györgyi Juhász, János Csizmeg, Árpád Dudás, **Judit Mádl-Sz?nyi**, Szilvia Simon, Brigitta Czauner, Norbert Németh, and András Milankovich
Late Miocene - Quaternary shortening and wrenching dominated groundwater flow in the central part of the Mid-Hungarian Mobile Belt
- A65 EGU2011-5404
Myriam Kars, Charles Aubourg, Jean-Pierre Pozzi, Pierre Labaume, and Jean-Pierre Girard
Diagenesis to low metamorphism in the Grès d'Annot basin: a magnetic approach
- A66 EGU2011-12543
Céline Ducassou, Marc Poujol, Erwan Hallot, Olivier Bruguier, and Michel Ballèvre
Petrology and age of the Mésanger magmatism (Armorican massif, France): implications for the deformation history of Carboniferous basins

SSP2.1 – Progress towards the next geological timescale: Earthtime-EU and GTSnext (sponsored by IAS) – Orals

Convener: Klaudia Kuiper | Co-Conveners: Heiko Pälike, Jacques Laskar, Leah Morgan, Joe Hiess

Room: 41

Chairperson: Joe Hiess, Leah Morgan, Klaudia Kuiper

- 13:30–13:45 EGU2011-353
Sietske J. Batenburg, Mario Sprovieri, Andrew S. Gale, Frederik J. Hilgen, Silja Hüsing, Diederik Liebrand, Fabrizio Lirer, Xabier Orue-Etxebarria, Nicola Pelosi, and Jan Smit
A Cyclostratigraphic Framework for the Maastrichtian at Zumaia (Basque country, Northern Spain)

- 13:45–14:00 EGU2011-295
Christian Zeeden, Frits Hilgen, Lucas Lourens, Thomas Westerhold, and Ursula Röhl
 Revised stratigraphy and tuning of the equatorial Atlantic Ceara Rise: Challenges and applications of astronomical time scales in the Miocene
- 14:00–14:15 EGU2011-3442
Jörn-Frederik Wotzlaw and Urs Schaltegger
 High-precision zircon U-Pb geochronology of astronomically tuned ash beds from the Mediterranean Miocene
- 14:15–14:30 EGU2011-11158
Diana Sahy, Anne Fischer, Dennis O. Terry Jr., Daniel J. Condon, and Klaudia Kuiper
 Integrating marine and terrestrial records from the late Eocene - early Oligocene of North America and Italy
- 14:30–14:45 EGU2011-11066
Anne U. Fischer, Diana Sahy, Klaudia F. Kuiper, Mohammad Sahragard Sohi, Jan R. Wijbrans, Frits J. Hilgen, Daniel J. Condon, and Willem Langenberg
 Integrated high resolution chronology of lower Paleocene continental successions in Canada
- 14:45–15:00 EGU2011-12188
Darren Mark and Leah Morgan
 Testing the accuracy of recent revisions to the age of Fish Canyon sanidine and the K-Ar decay constants using high-precision U-Pb and Ar/Ar ages for the Manicouagan impact event

SSP2.1 – Progress towards the next geological timescale: Earthtime-EU and GTSnext (sponsored by IAS) – Posters

Convener: Klaudia Kuiper | Co-Conveners: Heiko Pälike, Jacques Laskar, Leah Morgan, Joe Hiess

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Joe Hiess, Leah Morgan, Klaudia Kuiper

- A486 EGU2011-11277
Michael Wagreich and Johann Hohenegger
 Dating the gone Badenian stratotype (Middle Miocene, Paratethys, Vienna Basin, Austria)
- A487 EGU2011-230
Diederik Liebrand, Lucas J. Lourens, David A. Hodell, Bas de Boer, Roderik van de Wal, Heiko Pälike, and Samantha J. Gibbs
 Dynamics of ~100-kyr glacial cycles during the early Miocene
- A488 EGU2011-2236
Katarzyna K. Sliwinska, Kaare Ulleberg, Claus Beyer, Erik Thomsen, Niels Abrahamsen, Thomas Brünings-Hansen, and Claus Heilmann-Clausen
 Chronostratigraphy of the Rupelian-mid Chattian deposits from the Danish land area
- A489 EGU2011-10378
Tiffany Rivera, Michael Storey, Christian Zeeden, Klaudia Kuiper, and Frederik Hilgen
 Support for the Astronomically Calibrated 40Ar/39Ar Age of Fish Canyon Sanidine: Evidence from the Quaternary
- A490 EGU2011-12667
Joe Hiess, Daniel J. Condon, Stephen R. Noble, Noah McLean, Samuel A. Bowring, and James M. Mattinson
 Evaluating 238U/235U in U-bearing accessory minerals: implications for U-Pb geochronology
- A491 EGU2011-10711
Leah Morgan, Klaudia Kuiper, Darren Mark, Onno Postma, Igor Villa, and Jan Wijbrans
 First-principles calibration of 40Ar/39Ar mineral standards and complete extraction of 40Ar* from sanidine

SM3.6/SSP2.4/SSS5.8/TS4.5 – Imaging the shallow subsurface with seismic and GPR methods (co-organized) – Orals

Convener: Lars Nielsen | Co-Conveners: Klaus Holliger, Hansruedi Maurer, Matthew Yedlin

Room: 26

Chairperson: L NIELSEN

- 08:30–08:45 EGU2011-9517
Robert Ferguson, Adam Pidlisecky, and Colin Rowel
 Shot record depth migration of georadar data
- 08:45–09:00 EGU2011-13422
Walter Wheeler, Björn Heincke, Giuliana Rossi, and Niklas Allroggen
 GPR, seismic and geo-electric investigation of a paleokarst breccia pipe field, Svalbard
- 09:00–09:15 EGU2011-5845
Jens Tronicke, Hendrik Paasche, and Urs Böniger
 Inversion of crosshole traveltimes using particle swarm optimization

- 09:15–09:30 EGU2011-7882
Giovanni Angelo Meles, Stewart Greenhalgh, Jan van der Kruk, Hansruedi Maurer, and Alan Green
 GPR Full Waveform Sensitivity Analysis using a FDTD Adjoint Method
- 09:30–09:45 EGU2011-1302
CharLotte Krawczyk, Ulrich Polom, Stefan Trabs, and Torsten Dahm
 High-resolution imaging of sinkhole structures in the city of Hamburg by urban shear-wave reflection seismics
- 09:45–10:00 EGU2011-4532
Stewart Greenhalgh, Bing Zhou, and Mark Greenhalgh
 Wavenumber sampling strategies for 2.5D frequency-domain seismic modelling in general anisotropic media

SM3.6/SSP2.4/SSS5.8/TS4.5 – Imaging the shallow subsurface with seismic and GPR methods (co-organized) –

Posters

Convener: Lars Nielsen | Co-Conveners: Klaus Holliger, Hansruedi Maurer, Matthew Yedlin

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: M YEDLIN; K HOLLIGER

- XY695 EGU2011-10297
Lasse Lambrecht and Wolfgang Friederich
 Simulation of seismic wave propagation for reconnaissance as part of an interaction model in machined tunneling
- XY696 EGU2011-2679
Rolf Sidler, German Rubino, and Klaus Holliger
 Comparison of numerical simulations of seismic wave propagation in heterogeneous porous media and corresponding visco-elastic equivalent solid composites
- XY697 EGU2011-2655
 German Rubino and **Klaus Holliger**
 Wave-induced fluid flow effects related to porous rocks containing spatially continuous variations of the physical properties
- XY698 EGU2011-4241
Matthew Yedlin and Jean Virieux
 Uniform Asymptotic Expansions for Vector Waves
- XY699 EGU2011-5729
Kévin Samyn, Adnand Bitri, and Gilles Grandjean
 Imaging near-surface feature using cross-correlation analysis of multi-channel surface-wave data
- XY700 EGU2011-4737
Ariesty Asikin, Andri Hendriyana, and Rachmat Sule
 Application of Partial Crs-Stack Method to Enhance Gas Reservoir Characterization in a Complex Geological Structure: Synthetic Case Study
- XY701 EGU2011-12533
Javier Olona, Javier A. Pulgar, Gabriela Fernández-Viejo, Carlos López-Fernández, and Juan M. González-Cortina
 Seismic and electrical methods applied to the evaluation of subsidence risk derived from mining works
- XY702 EGU2011-1634
SanLinn. I. Kaka, Abdalla El-Amin, Aymen Al-Lehyani, and Mohammad Aqel
 Near-surface seismic refraction method applied to characterize subsurface in Eastern Saudi Arabia
- XY703 EGU2011-5534
Kerim Martínez and José Alfredo Mendoza
 Seismic refraction survey to identify faults along a planned viaduct site in Constantine, Algeria: Application and comparison of tomography and generalized reciprocal method interpretations.
- XY704 EGU2011-2842
Ho-Young Lee, Nam-Hyung Koo, Keun-Pil Park, Dong-Geun Yoo, Dong-Hyo Kang, Young-Gun Kim, Gab-Seok Seo, and Kyu-Duk Hwang
 High-resolution shallow marine seismic survey off Yeosu, Korea using an air gun and 8 channel streamer cable
- XY705 EGU2011-5775
Jehanne Demand and François Marillier
 Example of shear-wave velocity variations along a 2D seismic profile revealed by surface-wave analysis.
- XY706 EGU2011-5635
Vassilis Karastathis, Athanassios Ganas, Petros Karmis, George Drakatos, and Kostas Makropoulos
 Application of seismic velocity modelling at footwall escarpment areas in Greece

- XY707 EGU2011-13151
Jenneke G. Bakker, **Jan van der Kruk**, Jutta Bikowski, Colby M. Steelman, Anthony L. Endres, and Harry Vereecken
Multi-layer inversion of freezing induced dispersive Ground Penetrating Radar data
- XY708 EGU2011-1353
Jens Buchner, Alexander Kühne, Benny Antz, Ute Wollschläger, and Kurt Roth
Evaluating surface GPR measurements on a layered soil model using a ray path approach and the full solution of Maxwell's equations
- XY709 EGU2011-10936
Matthias Leopold and Jörg Völkel
Application of GPR within an artificial water catchment in NE Germany
- XY710 EGU2011-7694
Jorrit Fahlke, Jens Buchner, Olaf Ippisch, Kurt Roth, and Peter Bastian
Comparison of 3D ground-penetrating radar simulations with measurements on the ASSESS-GPR test site
- XY711 EGU2011-8636
Aránzazu Luzón, Óscar Pueyo, **Antonio Pérez**, and Arsenio Muñoz
GPR application to the study of tufa constructions: a tool for hydrocarbon exploration
- XY712 EGU2011-5530
Lars Nielsen and Lars B. Clemmensen
Constraints on relative sea-level fluctuations at the island of Anholt, Kattegat Sea, from AD ~1000 to the beginning of the 20th century based on interpretation of GPR reflection data

TS5.4/BG3.8/SSP2.5 – Natural gas seepage and focused fluid flow on continental margins (co-organized) – Orals

Convener: Zahie Anka | Co-Conveners: Aurelien Gay, Christian Berndt

Room: 26

Chairperson: n.n.

- 13:30–13:45 EGU2011-8772
Kate Thatcher, Graham Westbrook, Anne Chabert, Sudipta Sarkar, Tim Minshall, and Christian Berndt
Timing of methane release from hydrate dissociation on the west Svalbard margin
- 13:45–14:00 EGU2011-11272
Stefan Bünz, Jürgen Mienert, Sergey Polyanov, Sunil Vadakkepuliambatta, and Chiara Consolaro
Active Gas Venting Through Hydrate-Bearing Sediments on the Vestnesa Ridge, Offshore W-Svalbard
- 14:00–14:15 EGU2011-6132
Alexander Hartwig, Zahie Anka, Rolando di Primio, and Tony Albrecht
Wide-spread pockmarked surface: evidence for a Paleogene massive fluid escape event in the Orange Basin, South Africa
- 14:15–14:30 EGU2011-13086
Katrine Juul Andresen, Mads Huuse, and Ole Rønne Clausen
Overburden fluid flow features integrated in basin analysis
- 14:30–14:45 EGU2011-2705
Christophe Serié, Mads Huuse, and Niels Schødt
Seismic imaging and origin of fluid flow structures in the Kwanza Basin, offshore Angola
- 14:45–15:00 EGU2011-1737
Martin Hovland and Christine Fichler
Characterising marine and lacustrine methane macro-seeps in 14 steps

TS5.4/BG3.8/SSP2.5 – Natural gas seepage and focused fluid flow on continental margins (co-organized) – Posters

Convener: Zahie Anka | Co-Conveners: Aurelien Gay, Christian Berndt

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Christian Berndt & Zahie Anka

- XL273 EGU2011-828
Dimitri Laurent, Aurélien Gay, Sébastien Lacaze, Christian Bernt, Sverre Planke, Régis Mourgues, Roger Soliva, Catherine Baudon, and Michel Lopez
Polygonal fault systems in Gjallar Ridge, offshore Norway : implications for early processes of deformation, faulting and fluid flow.
- XL274 EGU2011-5645
Ricardo Leon, Luis Somoza, Teresa Medialdea, Tomas Vazquez, and Francisco Javier Gonzalez
Blind Submarine Valleys in the Gulf of Cadiz. Structures of seabed fluid flow

- XL275 EGU2011-488
Ilya Ostanin, Zahie Anka, Rolando Di Primio, Jon Erik Skeie, and Asdrubal Bernal
Analysis of fluid migration and leakage in the Hammerfest Basin, South Western Barents Sea, from 3D seismic reflection data.
- XL276 EGU2011-10295
Vincent Riboulot, Gwénaél Jouët, Antonio Cattaneo, and Serge Berné
Obliquely migrating pockmarks formed in response to 100 kyr and millennial-scale sea-level changes in the Gulf of Lions (Western Mediterranean)
- XL277 EGU2011-4597
Patrice Imbert, Aurelien Gay, Maxime Guiraud, Sutieng Ho, and Sebastien Nahan
Polygonal fault networks and pockmarks in fine-grained series: timing and mutual relationships
- XL278 EGU2011-5612
Nikolaus Baristeas, Zahie Anka, Rolando di Primio, Jorge Rodriguez, Denis Marchal, Fabian Dominguez, and Eduardo Vallejo
Characterization of Hydrocarbon Leakage Indicators in the Malvinas Basin, Offshore Argentine Continental Margin
- XL279 EGU2011-8575
Sudipta Sarkar, Anne Chabert, Christian Berndt, Timothy A. Minshull, Graham K. Westbrook, and Dirk Klaeschen
Fluid migration within gas hydrate bearing shallow marine sediments offshore Western Svalbard
- XL280 EGU2011-765
Enmanuel Rodrigues, Rolando di Primio, Zahie Anka, Daniel Stoddart, and Brian Horsfield
Leakage of hydrocarbons in a glacially influenced marine environment: Hammerfest Basin (Southwestern Barents Sea)
- XL281 EGU2011-4178
Liwen Chen, Wu-Cheng Chi, and Char-Shine Liu
Using BSRs to Estimate Spatial Variations of Vertical Fluid Flow Rates in Offshore Taiwan Accretionary Prism
- XL284 EGU2011-4780
Jong-Hwa Chun, Jin-Ho Kim, Byong-Jae Ryu, Jang-Jun Bahk, Ji-Hoon Kim, Young-Jun Kim, and Chang-Sik Lee
Gas-charged sediments from the eastern continental shelf off Korea
- XL285 EGU2011-12736
Adriano Mazzini, Giuseppe Etiope, and Henrik Svensen
Was the Lusi eruption triggered by volcanic intrusions? New insights from gas geochemistry
- XL286 EGU2011-10736
Julia Nickel, Jens Kallmeyer, Kai Mangelsdorf, Rolando di Primio, and Daniel Stoddart
Investigation of Microbial Activity in Pockmarks of the SW-Barents Sea
- XL287 EGU2011-3347
Alain Zanella and Peter Robert Cobbold
Influence of fluid overpressure, maturation of organic matter, and tectonic context during the development of 'beef': physical modelling and comparison with the Wessex Basin, SW England
- XL288 EGU2011-12299
Volker Liebetrau, Nico Augustin, Anton Eisenhauer, Jan Fietzke, Erwin Suess, Steffen Kutterolf, Volker Thiel, Han Xiqiu, and Peter Linke
Time scales and potential controls of focused fluid flow deciphered in microbially mediated carbonates

IG5/BG1.11/CL4.13/GMPV40/SSP4.5 – Stable isotopes as tool in (paleo-)climate studies (co-organized) – Orals
Convener: Rolf Siegwolf | Co-Conveners: Martin Werner, Attila Demény, Mathieu Daéron, Erik Kerstel, Danny McCarroll, Alain Veron, Claude Hillaire-Marcel, Martin Frank

Room: 41

Chairperson: Attila Demeny & Martin Werner

- 08:30–08:45 EGU2011-672
Per-Olov Persson, Per S. Andersson, Don Porcelli, and Igor Semiletov
The influence of Lena River water inflow and shelf sediment-sea water exchange for the Nd isotopic composition in the Laptev Sea and Arctic Ocean.
- 08:45–09:00 EGU2011-2577
Claude Hillaire-Marcel, Christelle Not, Bassam Ghaleb, and Anne de Vernal
Setting chronostratigraphies in low sedimentation rate sequences from the Arctic Ocean: isotopic approaches with focus on U-series
- 09:00–09:15 EGU2011-3514
Claudia Teschner, **Martin Frank**, and Brian Alexander Haley
Plio-Pleistocene evolution of water mass exchange and erosional input in the Fram Strait

- 09:15–09:30 EGU2011-4654
Christine Hatté, Caroline Gauthier, Denis-Didier Rousseau, Pierre Antoine, Markus Fuchs, Slobodan Markovic, Olivier Moine, and Adriana Sima
 Geochemical evidence of a specific atmospheric circulation on Balkan during last glaciation
- 09:30–09:45 EGU2011-5742
Claudia Ehlert, Patricia Grasse, and Martin Frank
 Changes in silicate utilization and upwelling intensity off Peru since the LGM - insights from silicon isotopes
- 09:45–10:00 EGU2011-8042
Thomas Launois, Philippe Peylin, Valérie Daux, Valérie Masson-Delmotte, Thomas Eglin, Valentin Bellassen, and Camille Risi
 Interannual variations in tree-rings' width and isotopic signatures (^{18}O and ^{13}C) combined to optimize ORCHIDEE land surface model

COFFEE BREAK

Chairperson: Rolf Siegwolf & Mathieu Daeron

- 10:30–10:45 EGU2011-2564
Arthur Gessler, Brandes Elke, Offermann Christine, and Ferrio Juan Pedro
 The long way down - How tightly are carbon and oxygen isotope signals in the tree ring coupled to canopy physiological processes?
- 10:45–11:00 EGU2011-3086
Juan Pedro Ferrio, David Carulla, Jesús Julio Camarero, Mónica Aguilera, and Jordi Voltas
 Retrospective approach to dieback in *Pinus sylvestris* through the analysis of carbon and oxygen stable isotope composition in tree ring cellulose
- 11:00–11:15 EGU2011-8596
Dr. Dimitrios Sarris, Dr. Rolf Siegwolf, and Prof. Christian Körner
 Stable C and O isotope signals of drought in Mediterranean pines
- 11:15–11:30 EGU2011-2291
Shikma Zaarur, Hagit P. Affek, and Moti Stein
 Clumped isotopes thermometry in *Melanopsis* shells and its paleoclimate implications
- 11:30–11:45 EGU2011-4734
Anna-Lena Grauel, Thomas W. Schmid, Stefano M. Bernasconi, and Gert J. De Lange
 Calibration and application of clumped isotopes of *G. ruber* for high-resolution climate reconstructions of the last 2500 years from the Gulf of Taranto, Mediterranean Sea
- 11:45–12:00 EGU2011-663
Prasanna Kannan and Prosenjit Ghosh
 Revisiting calibration of CO_2 based Clumped isotope thermometry - equilibration approach.

IG5/BG1.11/CL4.13/GMPV40/SSP4.5 – Stable isotopes as tool in (paleo-)climate studies (co-organized) – Posters
 Convener: Rolf Siegwolf | Co-Conveners: Martin Werner, Attila Demény, Mathieu Daëron, Erik Kerstel, Danny McCarroll, Alain Veron, Claude Hillaire-Marcel, Martin Frank

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Erik Kerstel & Kerstyn Treydte

- A446 EGU2011-13555
Rolf Siegwolf
 Stable isotopes, the link between tree physiology tree ring width data as climate proxies
- A447 EGU2011-1313
Hans Oerter, Frank Wilhelms, Margarete Hansson, Per Holmlund, Susanne Ingvalder, Torbjörn Karlin, and Shuji Fujita
 Stable isotope content and snow accumulation between 1957/58 and 2007/08 along the ice divide from Kohnen-Station towards Dome Fuji, East Antarctica
- A448 EGU2011-5169
Thejna Tharammal, André Paul, Ute Merkel, and David Noone
 Influence of LGM boundary conditions on the global water isotope distribution in an atmospheric general circulation model
- A449 EGU2011-5430
Attila Demény, Gabriella Schöll-Barna, Zoltán Siklósy, Gábor Serlegi, Pál Sümegi, and Mária Bondár
 A warming-cooling cycle between 3.8 and 3.2 ky BP: correlations of speleothem and bivalve compositions with ice core records

- A450 EGU2011-5856
David Morris and Stephen Macko
Estimation of marine, sea ice and terrestrial contributions to the Western Arctic carbon cycle using Bayesian mixing models and GC-IRMS
- A451 EGU2011-6354
Andres Diez-Herrero, Juan Antonio Ballesteros, Jose Maria Bodoque, and Virginia Ruiz-Villanueva
Can tree-ring isotopes be used for improving the flood frequency analysis?
- A452 EGU2011-6400
Joseph Erbland, Joël Savarino, Samuel Morin, and Markus M. Frey
Empirical sensitivity of $\delta^{15}\text{N}$ in nitrate to current snow accumulation rates in Antarctica : implications for the interpretation of the deep Vostok ice core
- A453 EGU2011-6928
Grzegorz Skrzypek, Zbynek Engel, Tomas Chuman, and Ludek Sefrna
Stable carbon isotope composition of Distichia peat: calibration of a new paleotemperature proxy for high altitudes in the Andes
- A454 EGU2011-7398
Mathieu Daéron, Franck Bassinot, Eva Moreno, Benjamin Passey, Gülay Isgüder, Hélène Rebaubier, and Dominique Blamart
Clumped-isotope studies of foraminifer records: inter-species differences, analytical bias and precision limits
- A455 EGU2011-8353
Christian Horn, Anton Eisenhauer, and Dirk Nürnberg
Employing $\delta^{44}\text{Ca}$ ratios in foraminifera to simultaneously track sea surface regional temperatures (SST) and salinities (SSS) variations across Termination I
- A456 EGU2011-8934
Rein Vaikmäe
The ice-core stable isotope records from small Arctic ice caps as proxies of climatic and environmental changes
- A457 EGU2011-9809
Matthias Saurer, Anne Kress, Olga Sidorova, and **Rolf Siegwolf**
On the precipitation signal in stable isotope ratios of tree-rings
- A458 EGU2011-11690
Bastian Ullrich, **Kerstin Treydte**, Sonia Simard, Sonja Boda, Matthias Saurer, Rolf Siegwolf, Patrick Fonti, and Arthur Gessler
Oxygen isotope pathway from the soil to the tree-ring at alpine sites in Switzerland
- A459 EGU2011-12240
Tamás Mikes, Ilaria Mazzini, Andreas Mulch, Marianna Kováčová, Peter Joniak, Natalia Hudáková, and **Bora Rojay**
Paleoenvironmental significance of the Serravallian-Tortonian Tuğlu section, Çankiri Basin, Central Anatolia
- A460 EGU2011-13544
Arnoud Boom and Tina Godfrey
Isotope records from Neotropical trees and stem rosettes
- A461 EGU2011-13897
Ashish Sarkar
8.2 Ka climatic cooling event deciphered from equatorial Arabian Sea
- A462 EGU2011-2003
Christelle Not and Claude Hillaire-Marcel
Marine evidence from Lomonosov Ridge for an Arctic trigger event of the Younger Dryas
- A463 EGU2011-2709
Peter Hülse and Samuel J. Bentley
A ^{210}Pb sediment budget and granulometric proxy record of discharge variations for a sub-Arctic deltaic system: the Great Whale River in Hudson Bay, Canada
- A464 EGU2011-2954
Nathalie Fagel, Jonathan Gueibe, Nadine Mattielli, Christelle Not, and Claude Hillaire-Marcel
Sedimentary provenances over glacial/interglacial stages in central Arctic constrained by mineralogy and radiogenic tracers
- A465 EGU2011-3321
Chunming Shi, Valérie Daux, Valérie Masson-Delmotte, Camille Risi, Jing Gao, Xiaochun Wang, and Qi-Bin Zhang
Climatic interpretation of tree ring stable isotopes in the southeast Tibetan Plateau: links with regional cloud cover
- A466 EGU2011-3415
Valérie Daux, Jean-Louis Edouard, Valérie Masson-Delmotte, Georg Hoffmann, and Olivier Mestre
Can climate variations be inferred from tree-ring parameters and stable isotopes from Larix decidua: budmoth outbreaks, juvenile effects and divergence problem.
- A467 EGU2011-4999
Francois Paquay and Greg Ravizza
Variations in the osmium isotopes record during the Azolla phase (IODP Expedition 302)

- A468 EGU2011-9047
Mikhail Vasiliev, Keita Yamada, and Naohiro Yoshida
Evaluation of clumped-isotopes of land snail's shells as a paleo-environmental indicator
- A469 EGU2011-9435
Lisa Wingate, Raphaël Dulhoste, Didier Bert, Barbara Köstner, Thomas Grünwald, Johannes Franke, and Jérôme Ogée
Intra-annual variations in the density and stable isotope composition of Norway spruce tree rings at the Tharandt FLUXNET site
- A470 EGU2011-12646
Robert Sherrell, Hélène Planquette, Marie Séguret, Sharon Stammerjohn, and Per Andersson
Continental sources of Fe and Nd isotopes to the Antarctic shelf systems of the Amundsen Sea and Western Antarctic Peninsula
- A471 EGU2011-13030
Gerald Dickens, Francesca Sangiorgi, Kristen St John, Catherine Stickley, Martin Jakobsson, Appy Sluijs, Henk Brinkhuis, and Jan Backman
Re-Os Isotope Data Highlights Existing Problems With Interpretations of the Middle Lithological Units in Cores from the Central Arctic Ocean
- A472 EGU2011-13339
Zou Zou Kuzyk, Charles Gobeil, Miguel Goni, and Robie Macdonald
Distributions and Inventories of Pb-210 and Cs-137 in Sediments along the North American Arctic Margin
- A473 EGU2011-1782
Lilia Sanchez-Vargas, Alberto Sanchez, Sergio Aguiñiga Garcia, and Eduardo Balart
Stable oxygen isotopes in Benthic Foraminifera Recent of the Northeast Pacific

TS6.1/G3.3/GD5.4/SM1.5 – The Alpine-Himalayan convergence zone: from the Mediterranean to SE Asia (co-listed) – Orals

Convener: Rob Govers | Co-Conveners: Claudio Faccenna, Alastair Robertson, Zohar Gvirtzman, Uri Schattner, Laurent Jolivet

Room: 28

Chairperson: n.n.

- 08:30–08:45 EGU2011-3397
Rinus Wortel, Rob Govers, and Marzieh Baes
Plate boundary reorganization in the western-central Mediterranean: Initiation of subduction along the southern boundaries?
- 08:45–09:00 EGU2011-3157
Ana Crespo-Blanc, Juan Carlos Balanyá, María Luján, Inmaculada Expósito, Manuel Díaz-Azpiroz, and Enric Suades
Large-scale crescent-like structures in the western Mediterranean ultimate arc (Gibraltar arc orogenic system)
- 09:00–09:15 EGU2011-7661
Pierre-Yves Filleaudeau and Frédéric Mouthereau
Kinematics of an orogen and mass transfer during its growth: insights from a new balanced and restored cross-section across the Pyrenees
- 09:15–09:30 EGU2011-10148
Guilhem Barruol, **Mickael Bonnin**, Helle Pedersen, Goetz Bokermann, and Christel Tiberi
Toroidal asthenospheric flow beneath the western Alps from seismic anisotropy
- 09:30–09:45 EGU2011-11004
Abdelkrim Aoudia, Alessandra Borghi, Valentina Barletta, Letizia Cannizzaro, Andrea Walpersdorf, Christof Voelksen, Riccardo Barzaghi, and Roberto Sabadini
Horizontal and Vertical CGPS Velocity Fields and the Active Deformation of the European Alps
- 09:45–10:00 EGU2011-8317
László Fodor, Frank Horváth, Em? Márton, Kamil Ustaszewski, and Endre Dombrádi
Constraints for the extrusion tectonics and back-arc extension in the Pannonian basin: a state of the art

COFFEE BREAK

Chairperson: Alastair Robertson and Zohar Gvirtzman

- 10:30–10:45 EGU2011-9446
Gregory Houseman, Graham Stuart, Ben Dando, Yong Ren, Ewald Brückl, Endre Heged?s, Slavica Radovanovic, and Cbp Working Group
Detachment of mantle downwelling beneath the Pannonian Basin caused lithospheric extension?

- 10:45–11:00 EGU2011-8894
Ferenc Horváth and Claudio Faccenna
Central Mediterranean mantle flow system and the formation of the Pannonian basin
- 11:00–11:15 EGU2011-9981
Nuno Simão, Nicolas Chamot-Rooke, Alain Rabaute, and Corné Kreemer
Relative convergence of the Nubia Plate towards the Eurasia Plate: the case of the lack of seismicity in the Algerian-Tyrrhenian Trough
- 11:15–11:30 EGU2011-7711
Eugénie Pérouse, Nicolas Chamot-Rooke, Alain Rabaute, and Pierre Briole
A new model to link the present-day kinematics of the Central Mediterranean and the Eastern Mediterranean
- 11:30–11:45 EGU2011-4015
Kamil Ustaszewski, Daniel Bernoulli, Bernhard Fügenschuh, Liviu Matenco, Roland Oberhänsli, Senecio Schefer, and Stefan M Schmid
Tracing the closure of Neotethys from the Alps to Western Turkey I: The Sava-Izmir-Ankara suture zone
- 11:45–12:00 EGU2011-12497
Thomas Meier, Brigitte Endrun, Sergei Lebedev, Celine Tirel, and Wolfgang Friederich
Layered deformation within the Aegean continental crust and mantle revealed by seismic anisotropy

LUNCH BREAK

Chairperson: Zohar Gvirtzman and Uri Schattner

- 13:30–13:45 EGU2011-8951
Laetitia Le Pourhiet, Benjamin Huet, and Laurent Jolivet
The shape of metamorphic core complexes, an indicator for paleo-step faults? Insights from 3D numerical modelling.
- 13:45–14:00 EGU2011-4689
Aral Okay
A regional olistostrome- mélange belt formed along a major strike-slip tear fault: Bornova Flysch Zone, western Turkey
- 14:00–14:15 EGU2011-13053
Altug Hasözbe, Burhan Erdogan, Erhan Akay, Muharrem Satir, Wolfgang Siebel, and Gullu Deniz Dogan
Progressive Magmatism in Western Anatolia (Turkey)
- 14:15–14:30 EGU2011-12007
Ilaria Mazzini, Marianna Ková?ová, Peter Joniak, Bora Rojay, and Nuretdin Kaymakci
Late Miocene to Quaternary evolution of the Çankiri Basin (Central Anatolia, Turkey)
- 14:30–14:45 EGU2011-10438
Côme Lefebvre, Maud J.M. Meijers, Nuretdin Kaymakci, Cor G. Langereis, Douwe J.J. van Hinsbergen, and Reinoud L.M. Vissers
Reconstructing the geometry of Central Anatolia during the Late Cretaceous, a rotational paleomagnetic study on granitoids.
- 14:45–15:00 EGU2011-1519
Alastair Robertson, Gillian McCay, Kemal Tasl?, Isabella Raffi, Robert Ellam, Kroon Dick, and Mehmet Necdet
Episodic tectonic reactivation of S Neotethys in the E Mediterranean as evidenced from the Kyrenia (Girne) Range, Cyprus

Chairperson: Claudio Faccenna and Rob Govers

- 15:30–15:45 EGU2011-1857
Christian Huebscher, G. Ali Dehghani, Axel Ehrhardt, Jeremy Hall, Marion Jegen, Jim Mechie, and Michael Weber
Incipient Continent-Continent Collision between the Eratosthenes Seamount and Cyprus / Eastern Mediterranean
- 15:45–16:00 EGU2011-4638
Oded Bar, Zohar Gvirtzman, Shimon Feinstein, and Ezra Zilberman
Late Tertiary Vertical motions in the Arabia-Mediterranean Transition Zone: Tectonics versus Counteracting Sedimentary Loading Effects
- 16:00–16:15 EGU2011-12842
Uri Schattner
Spatial and temporal constraints for the eastern Mediterranean Levant margin reactivation during the last interglacial

- 16:15–16:30 EGU2011-2070
Zohar Gvirtzman and Josh Steinberg
 Arabia's northwest plate boundary prior to its localization along the Dead Sea Transform
- 16:30–16:45 EGU2011-7496
Maud Meijers and the Brigitte Smith, Marc Sosson, Yann Rolland, Cor G. Langereis, Mark J. Dekkers, Douwe J.J. van Hinsbergen, Nuretdin Kaymakci, Demir Altiner, Araig Gregoryan, Ara Avagyan, Carla Muller Team
 Constraining the closure of the Neo-Tethys: a paleolatitude reconstruction of the Anatolide-Tauride and South Armenian Blocks
- 16:45–17:00 EGU2011-10081
Thomas François, Evgueni Burov, Philippe Agard, and Bertrand Meyer
 Thermomechanical modelling of the Zagros collision: clues to the formation of the Iranian plateau.

TS6.1/G3.3/GD5.4/SM1.5 – The Alpine-Himalayan convergence zone: from the Mediterranean to SE Asia (co-listed) –

Posters

Convener: Rob Govers | Co-Conveners: Claudio Faccenna, Alastair Robertson, Zohar Gvirtzman, Uri Schattner, Laurent Jolivet

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XL289 EGU2011-4011
Flavio Giaconia, Guillermo Booth-Rea, José-Miguel Martínez-Martínez, and José-Miguel Azañón
 Extensional transfer faults versus transcurrent faults in the eastern Betics, an example from the Sorbas basin (SE Spain)
- XL290 EGU2011-9433
 Walter Austmann, **Rob Govers**, and Rinus Wortel
 Subduction initiation along the inherited weakness zone at the edge of a slab: a parameter study
- XL291 EGU2011-11599
 Jeffrey Poort, Christian Gorini, Marina Rabineau, and **Damien Do Couto**
 Inventory of geophysical data, survey metadata and publications for the Western Mediterranean: the MEDGEOGIS-database
- XL292 EGU2011-12644
Rob Govers, Rinus Wortel, and Marzieh Baes
 Initiation of the post-Oligocene subduction phase in the Western Mediterranean
- XL293 EGU2011-12946
Alain Rabaute, Nicolas Chamot-Rooke, and Nuno Simão
 Neotectonic map of the Nubia-Eurasia plate boundary from Algeria to Calabria
- XL294 EGU2011-3904
Joan Campanyà, Juanjo Ledo, Pilar Queralt, Alex Marcuello, Montserrat Liesa, and Josep Anton Muñoz
 Lithospheric-scale magnetotelluric characterization of the West-Central Pyrenees: preliminary results
- XL295 EGU2011-6735
Eva Asensio, Giorgi Khazaradze, and Anna Echeverria
 Present-day crustal deformation in Pyrenees by CGPS measurements
- XL296 EGU2011-2587
Pierre Lanari, Stéphane Guillot, Stéphane Schwartz, Olivier Vidal, Pierre Tricart, and Nicolas Riel
 Tectono-metamorphic evolution of the Zone briançonnaise (Western Alps) in Eocene-Oligocene times using thermodynamical modelling and RSCM methods
- XL297 EGU2011-8388
Mathieu Bellanger, Romain Augier, Thierry Baudin, Nicolas Bellahsen, Olivier Beyssac, Charles Gumiaux, and Laurent Jolivet
 3D geodynamic evolution of a section between Grenoble and St Jean de Maurienne (External Western Alps)
- XL298 EGU2011-2453
 Kevin Norton and **Andrea Hampel**
 Postglacial rebound promotes glacial re-advances - a case study from the European Alps
- XL299 EGU2011-4787
Benedetta Andreucci, Leszek Jankowski, Stefano Mazzoli, Peter Reiners, Rafal Szaniawski, and Massimiliano Zattin
 The Neogene Evolution of polish Outer Carpathians: relationship between exhumation and deep geodynamic processes as constrained by low temperature thermochronology
- XL300 EGU2011-7262
 Dariusz Botor, **István Dunkl**, Marta Rauch, and Hilmar von Eynatten
 Timing of tectonic subsidence, accretion and exhumation of the Western Carpathian Flysch by apatite fission track and (U-Th)/He thermochronology

- XL301 EGU2011-2580
Alexandre Kounov and Stefan Schmid
Alpine thermotectonic evolution of the Apuseni Mountains (Romania)
- XL302 EGU2011-8170
Marco Pastore, Giovanni Pezzati, Filippo D'Oriano, Paola Vannucchi, and Nevio Zitellini
Evidence of post-rift compressional tectonics in the North-Eastern Tyrrhenian Basin.
- XL303 EGU2011-10640
Carmelo Angelica, Alessandro Bonforte, Giovanni Distefano, Enrico Serpelloni, and Giuseppe Puglisi
Strain field on the Sicily-Calabria (Southern Italy) from seismic and geodetic data
- XL304 EGU2011-7736
Mirko Carlini, Andrea Artoni, Massimo Bernini, Paolo Vescovi, Francesca Remitti, Giuseppe Bettelli, Paola Vannucchi, Maria Laura Balestrieri, Sveva Corrado, and Luca Aldega
Regional and local trends of maximum burial and exhumation timing in the Northern Apennines of Italy: a new updated dataset of low-temperature thermal and thermochronological data integrated with geological constraints
- XL305 EGU2011-1892
Dennis Brown, Joaquina Alvarez-Marron, Martin Schimmel, and Yih-Min Wu
Structure and kinematics of the central Taiwan thrust belt: Insights from geological, seismic energy release, and earthquake focal mechanism mapping
- XL306 EGU2011-2586
Nicolas Riel, Stéphane Guillot, Etienne Jaillard, Jean-Emmanuel Martelat, Jean-Louis Paquette, Pierre Lanari, Emilie Janots, and Philippe Goncalves
Metamorphic and geochronological study of a newly recognized paired metamorphic belt in Ecuador: implications for HT-LP metamorphism in a suprasubduction zone
- XL307 EGU2011-3965
Stathis C. Stiros, Fanis Moschas, and Villy Kontogianni
Evidence of recent faulting along the NE Adriatic coast
- XL308 EGU2011-11700
Davide Scrocca, Marco Cuffaro, Federica Riguzzi, Fabrizio Antonioli, Eugenio Carminati, Michele Livani, and Carlo Doglioni
Geodynamics of the northern Adriatic plate
- XL309 EGU2011-6386
Gallais Flora, **Gutscher Marc-André**, Graindorge David, Chamot-Rooke Nicolas, and Klaeschen Dirk
The Ionian Abyssal Plain - a key region for understanding the formation of the central Mediterranean domain
- XL310 EGU2011-4000
Stefan Schmid, Daniel Bernoulli, Bernhard Fügenschuh, Liviu Matenco, Senecio Schefer, Roland Oberhänsli, and Kamil Ustaszewski
Tracing the closure of Neotethys from the Alps to Western Turkey II: Similarities and differences between Dinarides, Hellenides and Anatolides-Taurides.
- XL311 EGU2011-7023
Gwenaëlle Salaun, **Anne Paul**, Helle Pedersen, Fabien Hubans, Hayrullah Karabulut, Ahu Komec Mutlu and the Simbaad Team
Seismic structure and anisotropy of the upper mantle beneath the Aegean and Anatolia: images of a very complex subduction system
- XL312 EGU2011-2074
Andrea Bruestle, Ludger Kueperkoch, Thomas Meier, Wolfgang Friederich and the EGELADOS working group Team
Seismicity of the SE Aegean observed by the temporary EGELADOS network
- XL313 EGU2011-3194
kenan akbayram, aral okay, and ercan ozcan
Paleontological and Stratigraphical Evidence for the Late Cretaceous-Early Tertiary Post-Collisional Tectonism along the Intra-Pontide Suture Zone, Northwestern Turkey
- XL314 EGU2011-6125
Mesut Aygül and Aral Okay
Possible Paleozoic magmatism in the western Sakarya Zone, Biga Peninsula, NW Turkey
- XL315 EGU2011-2384
Firat ?engün, Erdinç Yigitba?, O. Ersin Koralay, and ?.Onur Tunç
Geochemistry and LA-ICPMS zircon geochronology of the pre-Alpine rocks in the Biga Peninsula, NW Anatolia
- XL316 EGU2011-2920
Semih Can Ülgen and Aral I. Okay
Tectonic Setting of the Ophiolitic Melanges South of the Marmara Sea Between the Izmir-Ankara and Intra-Pontide Sutures

- XL317 EGU2011-8957
Heather King, Ezgi Ç?nar, Jeremy Hall, Ali Aksu, Sava? Gurçay, and Günay Çifçi
 The Miocene to Recent evolution of the western Antalya Basin and its linkage with the Anaximander Mountains and Isparta Angle
- XL318 EGU2011-10733
Sibel Tatar Erkül and Fuat Erkül
 Petrology and petrogenesis of syn-extensional granitoids in the Menderes metamorphic core complex, western Turkey - geodynamic implications for Aegean extension
- XL319 EGU2011-7948
Mehmet Cihat Alcicek and Johan H. ten Veen
 Neogene palaeogeography of SW Anatolia: A case study inferred from Tectonic-Sedimentation-Climate interactions in an array of evolving orogen-top basins
- XL320 EGU2011-4256
Ezgi Ç?nar, Heather King, Ali Aksu, Jeremy Hall, Sava? Gurçay, and Günay Çifçi
 The Miocene to Recent evolution of an active transform fault at the junction of Hellenic and Cyprus Arcs, eastern Mediterranean: the linkage between the western Antalya Basin and Finike Basin and Anaximander Seamounts
- XL321 EGU2011-10329
kenan akbayram, aral okay, and muharrem sat?r
 Evidence for Existence of Strandja Massif along the Intra-Pontide suture zone, between Istanbul and Sakarya Terranes
- XL322 EGU2011-12391
Tamás Mikes, Andreas Mulch, Bora Rojay, Tina Lüdecke, and Fabian Schemmel
 Neogene topography and precipitation patterns of the Central Anatolian Plateau
- XL323 EGU2011-10326
Jeroen Bartol, Rob Govers, and Rinus Wortel
 The Central Anatolian Plateau: relative timing of uplift and magmatism
- XL324 EGU2011-4998
Bahar Kurtbo?an, Susan Walsh, Tiffany Piercey, Selin Akhun, Ali Aksu, Jeremy Hall, and Günay Çifçi
 Neogene sedimentary history of the Cilicia Basin, eastern Mediterranean: a contribution to the TopoEurope VAMP project
- XL325 EGU2011-2071
Josh Steinberg, Zohar Gvirtzman, Yehoshua Folkman, and Zvi Garfunkel
 The origin and nature of the rapid Late Tertiary filling of the Levant Basin
- XL326 EGU2011-7691
 Clément Hardy, **Catherine Homberg**, Éric Barrier, and Yehuda Eyal
 A numerical model of the evolution of the Dead Sea transform during the Neogene
- XL327 EGU2011-7401
Yehuda Eyal
 The Syrian Arc Fold system: Age and rate of folding
- XL328 EGU2011-7462
Marc Hässig, Yann Rolland, Marc Sosson, and Ghazar Galoyan
 New P-T-t data on the metamorphic sole of the Amasia ophiolites and implications for the geodynamical process, NW of the Sevan-Akera suture zone, Lesser Caucasus (Armenia)
- XL329 EGU2011-5053
Alexei L. Sobissevitch, Yuri P. Masurenkov, Dmitriy V. Likhodeev, Irina N. Pouzich, and Ninel I. Laverova
 The modern hydrothermal system of the crust-mantle origin related to fluid-magmatic activity of volcanic centers in Northern Caucasus
- XL330 EGU2011-715
Adam Forte, Eric Cowgill, and Ibrahim Murtuzayev
 Plio-Pleistocene Stratigraphy of the Kura Basin, Azerbaijan: Implications for the Formation of the Greater Caucasus and Kura Fold-Thrust Belt
- XL331 EGU2011-348
Fuad Aliyev
 Seismic hazard assessment of Azerbaijan territory using new seismological and GPS data
- XL332 EGU2011-7996
Daniel Reif, Kurt Decker, Bernhard Grasemann, and Herwig Peresson
 Fracture patterns and generations in the simply folded part of the Zagros fold-and-thrust belt, Northern Iraq
- XL333 EGU2011-7037
Antonio Castro and Mehraj Aghazadeh
 Post-collisional monzonitic magmatism from the Zagros hinterland. Implications on lithospheric processes
- XL334 EGU2011-9040
Samuel Angiboust, Philippe Agard, Cees-Jan De Hoog, and Jafar Omrani
 Nature and structure of the Sistan « mélange » ophiolitic belt (Eastern Iran): Insights on deep accretionary wedge and subduction channel processes

- XL335 EGU2011-10926
Ivone Jiménez-Munt, Manel Fernàndez, Eduard Saura, Jaume Vergés, Daniel Garcia-Castellanos, and Antonio Villaseñor
3D lithospheric structure and regional/residual bouguer anomalies from Arabia-Eurasia collision in Iran
- XL336 EGU2011-6657
Giuseppe Pezzo, Simone Atzori, and Andrea Antonioli
The 2008 Balochistan sequence and its relationships with the CFF
- XL337 EGU2011-2347
Ivan Koulakov
High-frequency P and S seismic anomalies in the upper mantle beneath the Alpine-Himalayan orogenic belt reveal mechanisms of the lithosphere recycling due to collision
- XL338 EGU2011-8040
Ceri Nunn, Frederik Tilmann, Keith Priestley, Steven Roecker, Ross Heyburn and the INDEPTH IV and ASCENT Team
P-wave tomographic structure of NE Tibet
- XL339 EGU2011-4683
Tai-Lin Tseng and Wang-Ping Chen
Constraints on Upper Mantle Velocities beneath Tibet and Stable Continents using Shear-coupled P waves
- XL340 EGU2011-12456
Jan Vozar, Alan G. Jones, Florian Le Pape, Wei Wenbo and the INDEPTH MT Team
The lithospheric mantle and crust in the central Tibetan Plateau from INDEPTH electromagnetic data
- XL341 EGU2011-6889
Florian Le Pape, Alan G. Jones, **Jan Vozar**, Wenbo Wei and the INDEPTH MT Team
Northern Tibet crustal and lithospheric mantle structures inferred from INDEPTH magnetotelluric data
- XL342 EGU2011-1662
Pierre Bouilhol, Oliver Jagoutz, Francis O. Dudas, and John M. Hanchar
Dating the India-Eurasia collision through arc magmatic records

Thursday, 07 April

GM7.6/HS12.5 – Sedimentary source-to-sink fluxes and sediment budgets (co-listed) – Orals

Convener: Achim A. Beylich | Co-Conveners: Francesco Brardinoni, Katja Laute, Susan Liermann

Room: 21

Chairperson: Achim A. Beylich, Francesco Brardinoni

- 08:30–08:45 EGU2011-1547
Sara Savi, Kevin Norton, Naki Akçar, Fritz Schlunegger, Vincenzo Picotti, and Francesco Brardinoni
 Sediment transfer in an alpine catchment, assessed by ^{10}Be
- 08:45–09:00 EGU2011-4434
 Carolien Toté, **Gerard Govers**, Stijn Van Kerckhove, Isabel Filiberto, Gert Verstraeten, and Herman Eerens
 Effect of ENSO events on sediment production and transfer in a large coastal basin in northern Peru
- 09:00–09:15 EGU2011-6949
Gerben de Jager, Andrea Forzoni, and Joep Storms
 2DStratSim: an efficient source-to-sink model to calculate sediment volumes and forcing propagation
- 09:15–09:30 EGU2011-7052
Janneke IJmker, Georg Stauch, Kai Hartmann, Bernhard Diekmann, Elisabeth Dietze, Stephan Opitz, Bernd Wünnemann, and Frank Lehmkuhl
 Environmental reconstructions on the NE Tibetan Plateau based on sediment characteristics and multivariate statistics (EMMA)
- 09:30–09:45 EGU2011-7804
Jacob Covault, William Craddock, Brian Romans, and Andrea Fildani
 Terrestrial sediment flux: the importance of timescale of observation and drainage-basin size
- 09:45–10:00 EGU2011-10496
Martin Geilhausen, Jan-Christoph Otto, and Lothar Schrott
 Geomorphic system analysis and paraglacial landform adjustment in two glacier forefields (Pasterze & Obersulzbachkees, Hohe Tauern, Austria)

GM7.6/HS12.5 – Sedimentary source-to-sink fluxes and sediment budgets (co-listed) – Posters

Convener: Achim A. Beylich | Co-Conveners: Francesco Brardinoni, Katja Laute, Susan Liermann

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Katja Laute, Susan Liermann

- A149 EGU2011-182
Katja Laute and Achim A. Beylich
 Holocene hillslope development in paraglacial tributary valleys in Nordfjord, Western Norway
- A150 EGU2011-4231
Gwangsoo Lee, Daechoul Kim, and Hiil Yi
 Depositional history of late Quaternary mud deposits using high resolution seismic profile in the southeastern Yellow Sea
- A151 EGU2011-4874
Susan Liermann and Achim A. Beylich
 Holocene to contemporary fluvial sediment fluxes and budgets of two glacier-fed valley-fjord systems in the Nordfjord area, western Norway
- A152 EGU2011-5913
Ying-Ying Shih, Saulwood Lin, Kuo-Yen Wei, Jiann-Yuh Lou, and Char-Shine Liu
 Climate change and variation in organic carbon deposition since the LGM in the Northeastern South China Sea
- A153 EGU2011-8127
Vincent Balthazar, Veerle Vanacker, Atkilt Girma, and Semunesh Golla
 Regional scale analysis of human and biophysical control of sediment yield variability in the Ethiopian Highlands
- A154 EGU2011-10531
Joachim Götz, Jan-Christoph Otto, and Lothar Schrott
 Quantification and temporal evolution of sediment storage in a Lateglacial inner-alpine basin (Gradenmoos, Schober Mountains, Austria)
- A155 EGU2011-11494
Alexandre Loye, Benoît Mazotti, Eric Bardou, Michel Jaboyedoff, and Benjamin Rudaz
 Alpine catchment sediment budget modelling through a quantitative sediment cascade procedure

- A156 EGU2011-13761
Achim A. Beylich and Ulf Molau
 Dynamics and Landscape Formation in Cold Environments: The DYNAFLUX / DYNACOLD Network
- A157 EGU2011-13772
Armelle Decaulne, Thorsteinn Sæmundsson, and Olafur Eggertsson
 Geomorphological and dendrochronological data comparison to assess the frequency and magnitude of snow-avalanches fluxes in a subpolar maritime environment
- A158 EGU2011-13777
Achim A. Beylich, Katja Laute, and Susan Liermann
 Holocene to contemporary source-to-sink fluxes in a valley-fjord system in western Norway: Erdalen and Bødalen site project (SedyMONT-Norway)
- A159 EGU2011-13795
 Louise Hansen, Susan Liermann, Katja Laute, and **Achim A. Beylich**
 Volume estimation of the Bødalen delta, western Norway - a first outline

SSP1.1 – Open session on stratigraphy, sedimentology and palaeontology - posters only (co-sponsored by IAS & PalAss) – Posters

Convener: Darren Gröcke | Co-Conveners: Marco Vecoli, Stuart Robinson, Patric Jacobs, Ian Jarvis, Kevin Taylor, Ulrich Heimhofer, Christian März

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- A438 EGU2011-222
Mongkol Udchachon, Hathaitip Thassanapak, Qinglai Feng, and Chongpan Chonglakmani
 Depositional environment of Upper Devonian radiolarian cherts from Loei, Northeastern Thailand: Constraint from rare earth element and major element geochemistry
- A439 EGU2011-1254
farzad gharib, patrick de wever, and asal radmehr
 Mesozoic Nasselarian (radiolarian) from the radiolarites south of Biseton (west IRAN)
- A440 EGU2011-3607
 M. Cristina Cabral, Isabel M. Loureiro, Susana Pinto, **Luis V. Duarte**, and Ana C. Azerêdo
 New light on the Metacopina (Crustacea, Ostracoda) Toarcian extinction event: integrated data from the Lusitanian Basin, Portugal
- A441 EGU2011-8308
João Trabucho Alexandre, Roel Dirx, Harry Veld, Gerard Klaver, and Poppe L. de Boer
 Mud current ripples in the Toarcian organic-rich succession of the Dutch Central Graben: implications for environmental interpretations of oceanic anoxic events
- A442 EGU2011-8527
Luís V. Duarte, María J. Comas-Rengifo, Ricardo Paredes, M. Cristina Cabral, Ricardo L. Silva, and Ana C. Azerêdo
 High-resolution stratigraphy and faunal associations in the Upper Sinemurian organic-rich deposits of the western Iberian margin (Lusitanian Basin, Portugal)
- A443 EGU2011-11846
Niels van Helmond, Lenny Kouwenberg, Han Leereveld, Simone Galeotti, Poppe de Boer, Johan Weijers, Gert-Jan Reichart, and Henk Brinkhuis
 Palynological and geochemical characterization of Late Albian black shales from the Amadeus segment
- A444 EGU2011-11917
Tzu-Ruei Yang, Yen-Nien Cheng, and Kenn-Ming Yang
 Brooding behaviors of Cretaceous oviraptorids Dinosaurs of China
- A445 EGU2011-8613
Joanna Kostylew, Jan Zalasiewicz, and Ryszard Kryza
 Sedimentary signatures of subduction within the Variscan accretionary prism: Kaczawa Complex, SW Poland
- A446 EGU2011-11991
Mohamed Elkelani, Gert Jan Reichart, Wolfram Kurschner, Jaap S. Sinninghe Damsté, Klaas G.J. Nierop, Henk Brinkhuis, Zwier Smeenk, and Peter Nederlof
 Plant microfossils from the early Silurian (Llandoveryan) from western Libya
- A447 EGU2011-12932
Dieter Uhl and André Jasper
 Multiple evidence of paleowildfires within mire systems from the Late Paleozoic of the Paraná Basin, Brazil
- A448 EGU2011-432
Katarzyna K. ?liwi?ska, Ole R. Clausen, Bartosz Goleadowski, and Claus Heilmann-Clausen
 Forced regression as an effect of a mid-Oligocene cooling - a case study from the North Sea Basin

- A449 EGU2011-1308
Hyewon Sa, Ryeongsim Seok, Bumsuk Lee, Cheol Hoon Mo, Gwang Hoon Lee, Dong Geun Yoo, Hyun-Chul Han, Byung Jae Ryu, and Moo Hee Kang
 3-D morphologic and stratigraphic characteristics of deep-water debris-flow deposits in the Ulleung Basin, East Sea (Japan Sea)
- A450 EGU2011-4705
Huang Neng-wei, Chen Wen-shan, Wu Leh-chyun, Yu Neng-ti, Yen Yi-chin, Chou fen-hung, and Yang barry chincheng
 The Evolution of the Late Miocene to Middle Pleistocene Sedimentary Basin, SW Taiwan
- A451 EGU2011-5023
Qi Li, Yingzhao Zhang, Nianqiao Fang, and Jun Gan
 Evolution of Cenozoic tectono-palaeogeography and its petroleum significance in the Pearl River Mouth Basin, South China Sea
- A452 EGU2011-5649
Dong-Geun Yoo, Nyeon Keon Kang, Seong Pil Kim, and Byong-Jae Ryu
 Plio-Quaternary Seismic Stratigraphy and its Depositional History in the Ulleung Basin, East Sea off Korea
- A453 EGU2011-6196
Tsun-You Pan, Andrew T. Lin, and Wen-Rong Chi
 Temporal variations on sedimentary environments of the late Miocene-Pleistocene foreland basin, NW Taiwan
- A454 EGU2011-6940
Ho-Han Hsu, Char-Shine Liu, You-Tsung Tsai, Shu-Lin Tu, and Yi-Hsin Chen
 Sedimentary and Shallow Velocity Structure Characteristics in the Southern Okinawa Trough off Northeastern Taiwan
- A455 EGU2011-7376
Ya-Ting Chang, Char-Shine Liu, Chia-Chun Ko, Ho-Han Hsu, Yunshuan Wang, Song-Chuen Chen, and San-Hsiung Chung
 Sedimentation and Development of a Slope Basin Offshore Southwestern Taiwan from 3D Seismic Volume Analyses
- A456 EGU2011-7546
Ay?e Bozcu and Ça?lar Aytepe
 Stratigraphy and Hydrocarbon Potential of Tertiary Sequences in Edremit Gulf and Surrounding Areas (Northwestern Turkey)
- A457 EGU2011-9702
Char-Shine Liu, Hao-Ting Hung, Chao-Ming Yang, and Philippe Schnurle
 Deposition and Distribution of the Orogenic Sediments East of Taiwan
- A458 EGU2011-11794
Paola Sala, Adrian Pfiffner, Bradley Birkelo, and Oscar Quezada
 Heterogeneities in near-surface geological settings and seismic velocity distribution: a case study from the Paris Basin, France.
- A459 EGU2011-1375
Manuela Bordiga, Claudia Lupi, and Miriam Cobiainchi
 Calcareous nannofossil distribution and climate variability during the Mid-Pleistocene Transition interval at the Site ODP 198-1209B (Shatsky Rise, Northwestern Pacific Ocean)
- A460 EGU2011-10004
Marina Ciummelli, Isabella Raffi, and Jan Backman
 Correlation of distribution and frequency of selected nannofossil taxa with paleoenvironment variability in late Miocene sediments of the Equatorial Pacific.
- A461 EGU2011-7279
Federica Toffanin, Claudia Agnini, Eliana Fornaciari, and Rio Domenico
 Interaction between calcareous nannofossil assemblages and climate transient global changes during the Middle Eocene Climatic Optimum
- A462 EGU2011-10925
Patrick Grunert, Ralph Hinsch, Stjepan ?ori?, Ali Soliman, Mathias Harzhauser, Werner E. Piller, and Hanns Sperl
 Sequence stratigraphy of the North Alpine Foreland Basin: an example from the Early Miocene Hall Formation (Upper Austria)
- A463 EGU2011-7067
Willemijn Quaijtaal, Bridget S. Wade, Stefan Schouten, Alexander J.P. Houben, Yair Rosenthal, Kenneth G. Miller, and Henk Brinkhuis
 Environmental- and sea-level change revealed by dinoflagellate cysts during the Eocene-Oligocene transition at St. Stephens Quarry, Alabama, USA
- A464 EGU2011-7135
Pierre Warburton, James Scotchman, and Kevin Pickering
 Milankovitch forcing of siliciclastic sediment flux in Middle Eocene deep-marine deposits, Ainsa basin, Spanish Pyrenees

- A465 EGU2011-7818
Adele Garzarella and Isabella Raffi
Correlation of distribution and evolution of selected calcareous nannofossil taxa with paleoenvironmental changes during Late Paleocene: an example in mid-latitude sediments of ODP Site 1262.
- A466 EGU2011-1225
Sarah Romahn, Holger Kuhlmann, Andreas Mackensen, and Jürgen Pätzold
Reconstructing late Quaternary ocean surface productivity and deep-water mass geometry off E-Africa at 7°S
- A467 EGU2011-6324
Lars B. Clemmensen and Andrew S. Murray
Holocene sea-level change: geological records from the Skagen Odde spit system, Denmark
- A468 EGU2011-9082
Rik Tjallingii, Karl Stattegger, and Andreas Wetzel
A Holocene relative sea-level curve from Sub- and inter-tidal deposits of the Sunda Shelf and SE Vietnam
- A469 EGU2011-9602
Seong-Pil Kim and Dong-Geun Yoo
Sedimentologic response to the relative sea level change in a narrow uplifted shelf
- A470 EGU2011-1805
Hedieh Abbasian, Abdolhossein Amini, and Hamid Alizadeh
Assessment of the spatial-temporal variability of bio-lithofacies in the offshore of South Caspian Sea (Langroud-Roudsar Coasts)
- A471 EGU2011-7473
Ana C. Azerêdo, Luis V. Duarte, Rui Baptista, Sara G. Vieira, and Maria Olho-Azul
Microbialites from Rift and Sag systems: new insights into terminological and classification issues?
- A472 EGU2011-6353
Simone Ziegenbalg, Christoph Berthold, Andreas Kappler, and Jörn Peckmann
The application of μ -XRD2 to identify gypsum whiskers in Messinian evaporites
- A473 EGU2011-8073
Elvira Oliveri, Mario Sprovieri, Daniela Salvagio Manta, Giorgio Tranchida, Violetta La Cono, M. Michail Yakimok, and Salvatore Mazzola
Biogeochemical dynamics in superficial sediments collected from the new anoxic hypersaline lake Thetis
- A474 EGU2011-11707
Li-Ren Fan, Kenn-Ming Yang, Jong-Chang Wu, and Chin-Chun Tsai
Sedimentary Facies and Cycles of Foredeep Sequences in Inner Foothills Belt, Southwestern Taiwan
- A475 EGU2011-12159
Harry Rowe, Niki Hughes, and Krystin Robinson
Advances in Handheld Energy-Dispersive X-ray Fluorescence Calibrations for Carbonate-Rich Sedimentary Rocks
- A476 EGU2011-14201
Maria Teresa García-Vallès, Pura Alfonso, Carles Canet, Esperanza Tauler, Rosa María Prol-Ledesma, and Viridiana Vázquez-Figueroa
Mineralogical characterization of sediments from the Wagner Basin, Northern Gulf of California

SSP1.7/GMPV56 – LIPs: teleconnections between geological processes and mass extinctions (co-organized) –

Posters

Convener: Darren Gröcke | Co-Conveners: Henrik Svensen, Paul Wignall, Benjamin Black

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Paul Wignall, Benjamin Black

- A477 EGU2011-1605
Benjamin Black, Linda Elkins-Tanton, Benjamin Weiss, Roman Veselovskiy, Anton Latyshev, and Vladimir Pavlov
Emplacement Temperatures of Voluminous Siberian Traps Volcaniclastic Deposits
- A478 EGU2011-12812
Henrik Svensen, Sverre Planke, Alexander G. Polozov, Dougal A. Jerram, and Seth Burgess
The Siberian Traps during the onset of flood volcanism: Volcanic facies and the distribution of tuffs in the north-western part of the province

TS4.2/GD2.7/GM7.7/HS12.15/SSP3.2 – From Source to Sink: Quantification of mass transfer from mountain ranges to active sedimentary basins (co-organized) – Orals

Convener: Liviu Matenco | Co-Conveners: Paul Andriessen, Bernhard Fügenschuh, Lothar Schrott

Room: 28

Chairperson: Liviu Matenco, Paul Andriessen

- 15:30–15:45 EGU2011-2979
Hilmar von Eynatten
 The Role of Provenance Analysis in Quantifying Source-Sink relations
- 15:45–16:00 EGU2011-7077
Andrea Forzoni, Gerben de Jager, and Joep Storms
 An integrated source-to-sink model simulating sediment flux through a river system and fluvio-deltaic stratigraphy
- 16:00–16:15 EGU2011-12137
Endre Dombrádi, Frank Horváth, Marco Sacchi, Gábor Bada, and Tamás Tóth
 The role of tectonics and erosion in the evolution of topography in the western Pannonian basin
- 16:15–16:30 EGU2011-6492
Marten ter Borgh, Iuliana Vasiliev, Marius Stoica, Slobodan Knežević, Liviu Matenco, Wout Krijgsman, Ljupko Rundic, and Sierd Cloetingh
 The age of the isolation and the evolution of the sedimentary infill of the Pannonian basin
- 16:30–16:45 EGU2011-9713
Andrei Briceag and Mihaela Melinte-Dobrinescu
 Palaeoenvironmental changes in the Holocene deposits of the Romanian Black Sea inner shelf
- 16:45–17:00 EGU2011-368
Bartosz Goledowski, Søren Bom Nielsen, and Ole Rønø Clausen
 Norway and adjacent sedimentary basins during Cenozoic times - sediment fluxes, accumulation rates and mass balance

TS4.2/GD2.7/GM7.7/HS12.15/SSP3.2 – From Source to Sink: Quantification of mass transfer from mountain ranges to active sedimentary basins (co-organized) – Posters

Convener: Liviu Matenco | Co-Conveners: Paul Andriessen, Bernhard Fügenschuh, Lothar Schrott

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Bernhard Fügenschuh, Nicolae Panin

- XL335 EGU2011-13766
Liviu Matenco, Paul Andriessen, Bernhard Fügenschuh, Lothar Schrott and the Source Sink Team
 Source to Sink systems: Quantification of mass transfer from mountain ranges to active sedimentary basins in the Danube basin system
- XL336 EGU2011-11006
Mehdi Pasha Karami, Paul Meijer, Anna von der Heydt, Arjan de Leeuw, and Rinus Wortel
 Circulation and water properties of the Miocene Mediterranean Sea and Paratethys before and after closure of the Tethys Seaway: a regional ocean model study
- XL337 EGU2011-6831
Nicolae Panin and How Kin Wong
 Sedimentation processes and depocentres of the Danube - Black Sea system
- XL338 EGU2011-5822
Ioan Munteanu, Liviu Matenco, Corneliu Dinu, and Sierd Cloetingh
 The Miocene-Quaternary evolution of NW part of Black Sea Basin and connection with Dacian Basin
- XL339 EGU2011-5780
Dorina Tambrea, Corneliu Dinu, and Ioan Munteanu
 Structural characteristics of Paleogene deposits, in central Romanian Black Sea offshore
- XL340 EGU2011-5861
Alina Floroiu, Marius Stoica, Ioan Munteanu, and Corneliu Dinu
 Stratigraphical and paleontological data from Upper Miocene-Pliocene sediments, Romanian Black Sea shelf
- XL341 EGU2011-7395
 Michal Kováč, **Rastislav Synak**, Bohuslava Sopková, and Jozef Minár
 Upper Miocene and Pliocene history of the northern Danube Basin
- XL342 EGU2011-11146
Juraj Franc, Jan Šafanda, Vladimír Čermák, Oldřich Krejčí, and Paul Andriessen
 Heat flow pattern and thermal history of the West Carpathian-Pannonian basins in respect to the uplift and erosion of the adjacent fold-and-thrust belts
- XL343 EGU2011-8367
Judit Petrovski, Balázs Székely, and Gábor Timár
 The classification of multiple window-size based sinuosity spectrum - a new evaluation method in river sinuosity calculation
- XL344 EGU2011-3513
Uros Stojadinovic, Liviu Matenco, Paul Andriessen, Marinko Toljic, and Jurgen Foeken
 From Mountain Building to Orogenic Collapse: Interferences Between Dinaridic and Carpathian Orogenic Systems

- XL345 EGU2011-12861
Martin Reiser, Bernhard Fügenschuh, and Ralf Schuster
 The tectonic evolution of the Biharia nappe system documented by structural and thermochronological data. Apuseni Mountains, Romania.
- XL346 EGU2011-9947
Wolfgang Reiter, Simon Elfert, and Cornelia Spiegel
 Plio-Pleistocene denudation history of the Central European Alps revealed through detrital thermochronology
- XL347 EGU2011-369
Vivi Kathrine Pedersen, Søren Bom Nielsen, and Kerry Gallagher
 Post-orogenic evolution of the Northeast Greenland Caledonides

BG7.4/SSP3.6 – Methane and gas hydrates in marine and terrestrial environments: sources, sinks and ecosystems (co-organized) – Posters

Convener: Alina Stadnitskaia | Co-Conveners: Tomas Feseker, Helge Niemann, Matthias Haeckel, Judith Maria Schicks

Poster Area BG | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Alina Stadnitskaia, Tomas Feseker, Helge Niemann, Matthias Haeckel and Judith Maria Schicks

- BG77 EGU2011-14
Sayed Sharaf El Din and Marawan Nassar
 Gas hydrates over the Egyptian Med. Coastal waters
- BG78 EGU2011-1018
George Burba, Tyler Anderson, Dayle McDermitt, Liukang Xu, Anatoly Komissarov, Bradley Riensche, Douglas Allyn, and Kevin Ediger
 Accounting for spectroscopic effects in eddy covariance calculations of methane flux
- BG79 EGU2011-1148
Chiara Consolaro, Kamila Szttybor, Tine L. Rasmussen, Juergen Mienert, and Stefan Buenz
 Dating active vs inactive seep sites in the pockmark-field of the Vestnesa Ridge (NW Svalbard)
- BG80 EGU2011-1465
 Jan Blees, **Helge Niemann**, Christine Wenk, Jakob Zopfi, Carsten J. Schubert, Mauro L. Veronesi, Marco Simona, and Moritz F. Lehmann
 Methane oxidation in the anoxic hypolimnion of a deep south-alpine lake
- BG81 EGU2011-1655
Kamila Szttybor, Chiara Consolaro, Tine Rasmussen, Stefan Bünz, and Jürgen Mienert
 Methane release and past climate change in the Arctic during the last ca 30,000 years
- BG82 EGU2011-1741
Martin Hovland and Lars Petter Myhre
 A unique hydrocarbon-seep and hydrate mediated ecosystem at Nyegga-G11, off Mid-Norway
- BG83 EGU2011-4406
Chieh-Wei Hsu, Saulwood Lin, Yee Cheng Lim, Tsanyao Frank Yang, and I-Jy Hsieh
 Variation of sulfur isotope fractionation in the Yung-An Ridge cold vent sediments offshore Southwestern Taiwan
- BG84 EGU2011-4547
Yun-Ju Chen, Pei-Ling Wang, Chih-Hsien Sun, and Li-Hung Lin
 Temperature effects on the metabolic pathway of acetoclastic methanogenesis
- BG85 EGU2011-4873
 Hongpeng Tong, **Duofu Chen**, Youyan Bian, and Dong Feng
 Petrology and geochemistry of seep carbonate on the northern continental slope of the South China Sea: A review
- BG86 EGU2011-4985
 Jens Greinert, **Matthias Haeckel**, and Pergamon Members
 Permafrost and gas hydrate related methane release in the Arctic and its impact on climate change - European cooperation for long-term monitoring: COST Action PERGAMON
- BG87 EGU2011-5078
Alexei L. Sobissevitch, Andrey V. Gorbatikov, Alexander N. Ovsuychenko, Leonid E. Sobissevitch, Irina N. Pouzich, and Boris A. Morev
 Deep underground structure of mud volcanoes in North-Western Caucasus revealed by means of geological and geophysical studies
- BG88 EGU2011-5144
Shinsuke Kawagucci
 Origin of methane in the Okinawa Trough hydrothermal fields: Implication for long transport of biogenic methane at subsurface geofluid system.

- BG89 EGU2011-5340
Wei-Zhi Liao, Andrew Tien-Shun Lin, Char-Shine Liu, and Shu-Kun Hsu
BSR occurrences in a continental-slope ridge with widespread cold-seep carbonates, northern South China Sea margin
- BG90 EGU2011-6112
Tatiana Kuznetsova, Bjørn Kvamme, Van Cung Phan, Øivind Sunnarvik, and Christian Bøe
Molecular dynamics study of mineral impact on mass transport and hydrate formation
- BG91 EGU2011-6175
Dominique Serça, Chandrashekhar Deshmukh, Fabien Becerra, Vincent Chanudet, Stéphane Descoux, Pierre Guédant, and Frédéric Guérin
Methodology to assess of methane emission from a tropical hydro reservoir: case of Nam Theun 2, Laos
- BG92 EGU2011-6256
Bo Barker Jørgensen, Sabine Flury, Laura Lapham, Henrik Fossing, Hans Røy, Jørn Bo Jensen, and Andrew W. Dale
Controls on methane accumulation and methane fluxes in gassy sediments, Baltic Sea.
- BG93 EGU2011-6711
Christian Deusner, Nikolaus Bigalke, Elke Kossel, Jean-Philippe Savy, and Matthias Haeckel
Simulating CO₂ injection into submarine, CH₄-hydrate bearing sediments in high-pressure experiments
- BG94 EGU2011-6750
Alejandro de Carlos, Sandra Vázquez-Dorado, Soledad García-Gil, and Andrés Sanjuan
Microbial community metagenomic profiling in shallow gas fields from the Ría de Vigo (NW of the Iberian Peninsula)
- BG95 EGU2011-7293
Nguyen Manh Thang, Volker Brüchert, Michael Formolo, Gunter Wegener, Maja Rehiholdsson, Ginters Livija, Bo Barker Joergensen, and Timothy Ferdelman
Biogeochemistry of methane and sulfate in Himmerfjärden estuary sediment, Sweden
- BG96 EGU2011-7365
Shu-Lin Tu and Char-Shine Liu
Using MCS Reflection Data to Delineate Gas Hydrate Concentrated Zone in the Yung-An Ridge Area Offshore Southwestern Taiwan
- BG97 EGU2011-7968
Ellen Damm, Silke Thoms, and Elisabeth Helmke
Hotspots of methane formation - a response to melting sea ice in nitrate stressed Polar surface water
- BG98 EGU2011-8917
Soledad García-Gil, Natalia Martínez-Carreño, Esther de Blas, and Castor Muñoz Sobrino
Quantitative data from the inner and outer gas fields of the Ria de Vigo (Spain).
- BG99 EGU2011-9312
Catalin Teodoriu, Kurt M. Reinicke, Karl Eduard Winter, and Giorgi Phochkhua
Gashydrate exploration campaign using a novel rotary coring tool
- BG100 EGU2011-10626
Elena Pinero, Christian Hensen, **Matthias Haeckel**, Mathias Marquardt, and Klaus Wallmann
Constraining the global distribution and amount of methane hydrates in marine sediments
- BG101 EGU2011-11119
Philip Steeb, Kerstin Kretschmer, **Peter Linke**, and Tina Treude
What is the upper limit of the benthic microbial methane filter?

GM1.2/SSP3.7 – Teleconnections: Far-field links in sedimentary source-to-sink systems (GSL/GSA Session)

(co-organized) – Orals

Convener: Philip Allen | Co-Conveners: Alex Whittaker

Room: 21

Chairperson: n.n.

- 10:30–10:45 EGU2011-13677
Philip Allen, John Armitage, Andrew Carter, Robert Duller, Nikolas Michael, Hugh Sinclair, and Alex Whittaker
Volume balance model for dispersal of particulate sediment in geological source-to-sink systems
- 10:45–11:00 EGU2011-13935
Silvan Hoth and Nina Kukowski
Teleconnections in orogenic belts?
- 11:00–11:15 EGU2011-6836
Gareth G. Roberts and Nicky White
Estimating Uplift Rate Histories From River Profiles: Examples From the Colorado Plateau
- 11:15–11:30 EGU2011-877
Tom Coulthard
How tectonic inputs are ignored by the drainage basin

- 11:30–11:45 EGU2011-13855
Emilie Pepin, Sébastien Carretier, and Gérard Herail
 Erosional feedback between mountain and foreland: Effects on internal system dynamics and the response to climate change
- 11:45–12:00 EGU2011-12907
Paolo Ballato, Angela Landgraf, Manfred Strecker, Andreas Mulch, Daniel Stockli, Norbert Nowaczyk, Anke Friedrich, Mohammad Ghassemi, and Saeid Tabatabaei
 Stratigraphic architecture of the Miocene foreland basin deposits of the Southern Alborz mountains (N Iran): tectonic versus climatic external forcing

GM1.2/SSP3.7 – Teleconnections: Far-field links in sedimentary source-to-sink systems (GSL/GSA Session) (co-organized) – Posters

Convener: Philip Allen | Co-Conveners: Alex Whittaker

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Philip Allen

- A110 EGU2011-3449
Alex Whittaker, Robert Duller, Joshua Springett, Rosie Smithells, Amy Whitchurch, and Philip Allen
 Decoding downstream trends in stratigraphic grain-size as a function of tectonic subsidence and sediment supply
- A111 EGU2011-3591
John Armitage, Rob Duller, Tom Dunkley Jones, Alex Whittaker, and Philip Allen
 Climate signals lost and found in the sediment archive
- A112 EGU2011-4467
Nikolas Michael, Maria Mange, Andy Carte, Alex Whittaker, and Philip Allen
 Functioning of a sediment routing system: teleconnection of sediment sources with depositional sinks (Eocene Escanilla Formation), Spanish Pyrenees
- A113 EGU2011-4716
Nynke Keulen and Tjerk Heijboer
 The provenance of garnet: semi-automatic plotting and classification of garnet compositions
- A114 EGU2011-10746
Linda Kirstein, Andrew Carter, and Yue-Gau Chen
 What do changes in sediment flux mean? An example of structural controls from Taiwan
- A115 EGU2011-11693
Stéphane Pochat, Laurent Husson, Jean Van Den Driessche, and Antoine Bézou
 The Strontium curve : endoreism versus exoreism

TS6.1/G3.3/GD5.4/SM1.5 – The Alpine-Himalayan convergence zone: from the Mediterranean to SE Asia (co-listed) – Orals

Convener: Rob Govers | Co-Conveners: Claudio Faccenna, Alastair Robertson, Zohar Gvirtzman, Uri Schattner, Laurent Jolivet

Room: 28

Chairperson: Uri Schattner and Alastair Robertson

- 08:30–08:45 EGU2011-5046
Philippe Agard, Jafar Omrani, Laurent Jolivet, Hubert Whitechurch, Bruno Vrielynck, Wim Spakman, Patrick Monié, Bertrand Meyer, and Rinus Wortel
 Subduction and orogenic build-up in the Zagros
- 08:45–09:00 EGU2011-4555
Jean-Christophe Wrobel-Daveau, Jean-Claude Ringenbach, Geoffrey M. H. Ruiz, Finlay M. Stuart, and Dominique Frizon de Lamotte
 Vertical movements and Cenozoic propagation of the deformation in the Zagros belt: insights from sections balancing and detrital low temperature thermochronology (AHe and ZHe)
- 09:00–09:15 EGU2011-4731
 Massimo Mattei, **Francesca Cifelli**, Giovanni Muttoni, Andrea Zanchi, Fabrizio Berra, Fathollah Mossavvari, and Eshraghi Safar Ali
 Neogene block-rotation in Central Iran: evidence from paleomagnetic data
- 09:15–09:30 EGU2011-5884
Kristen Cook, Leigh Royden, Clark Burchfiel, Yuan-Hsi Lee, and John Suppe
 Cenozoic cooling history of the southwestern Longmen Shan
- 09:30–09:45 EGU2011-4183
Anne Replumaz, Stéphane Guillot, and Ana Negredo
 Indian and Asian continental subduction episodes during collision : tectonic context and slab dynamics

09:45–10:00 EGU2011-1888

Mark Allen and Howard Armstrong

Shifts in the Intertropical Convergence Zone and the tectonics and climate of the India-Eurasia collision

Friday, 08 April

SSP1.7/GMPV56 – LIPs: teleconnections between geological processes and mass extinctions (co-organized) – Orals

Convener: Darren Gröcke | Co-Conveners: Henrik Svensen, Paul Wignall, Benjamin Black

Room: 41

Chairperson: Henrik Svensen

- 13:30–13:45 EGU2011-12083
Kirsten Fristad, Henrik Svensen, Sverre Planke, and Alexander Polozov
 Siberian Trap Pipe Eruptions as Agents of Environmental Deterioration
- 13:45–14:00 EGU2011-11842
Elke Hermann, Peter A. Hochuli, Hugo Bucher, Thomas Brühwiler, David Ware, Michael Hautmann, Nicolas Goudemand, and Ghazala Roohi
 End-Permian and mid-Early Triassic terrestrial ecosystem turnovers - a comparison
- 14:00–14:15 EGU2011-5056
Stephan Sobolev, Alexander Sobolev, Dmitri Kuzmin, Nadezhda Krivolutsкая, Alexey Petrunin, Nick Arndt, Viktor Radko, and Yuri Vasiliev
 Origin of Siberian Traps and their relation to the Permo-Triassic mass extinction
- 14:15–14:30 EGU2011-1037
Annette E. Götz, Maria Barbacka, János Haas, József Pálffy, Katrin Ruckwied, and Ákos Török
 Timing of palaeoenvironmental and climatic change at the Triassic/Jurassic boundary on land and in the sea
- 14:30–14:45 EGU2011-2479
Thierry Adatte and Gerta Keller
 Main Deccan traps pulse close to the Cretaceous-Tertiary Boundary: increasing Multiproxy evidence
- 14:45–15:00 EGU2011-11144
David Ray
 The Silurian a record of oceanic, atmospheric and biotic change

SSP3.1 – Sedimentary and early diagenetic processes in modern and ancient carbonate systems (sponsored by IAS)

– Orals

Convener: Stephen Lokier | Co-Conveners: Thomas Steuber

Room: 41

Chairperson: Stephen Lokier and Thomas Steuber

- 10:30–10:45 EGU2011-2840
Robert Park
 Modern Equatorial Carbonate Systems as an analogue for Miocene Carbonate Buildups in SE Asia
- 10:45–11:00 EGU2011-6315
Mona Seddighi and Cesare A. Papazzoni
 Quantitative data about nummulite-rich sediments: first results from Pederiva di Grancona and Mossano sections, Middle Eocene (Veneto, Northern Italy)
- 11:00–11:15 EGU2011-11136
Alexis Godet, Karl B. Föllmi, Peter Stille, Stéphane Bodin, Jorge E. Spangenberg, and Thierry Adatte
 The expression of the Faraoni OAE (Late Hauterivian) in neritic environment: The formation of sedimentary discontinuity in the Western Swiss Jura and the Helvetic Alps
- 11:15–11:30 EGU2011-2444
János Haas and Tamás Budai
 Tectonic, eustatic and climatic control on the Dachstein platform development in the Transdanubian Range, Hungary
- 11:30–11:45 EGU2011-3556
Ana C. Azerêdo and Nuno Inês
 Main diagenetic, porosity and reservoir features of limestone and dolomitic sandbodies from the Middle Jurassic of the Lusitanian Basin, Portugal
- 11:45–12:00 EGU2011-299
zeinab shariatnia, Manouchehr haghghi, Sadat Feiznia, Nafiseh Farhadian, Zahra Shariatnia, and Ali Mousavi dehghani
 A Record Of Hydrocarbon Fluids Composition In The Carbonate-Cemented Fractures In The Oligocene-Miocene Limestones Using fluid Inclusions, in The Mond Field , Iran

SSP3.1 – Sedimentary and early diagenetic processes in modern and ancient carbonate systems (sponsored by IAS)

– Posters

Convener: Stephen Lokier | Co-Conveners: Thomas Steuber

Hall A | Display Time 08:00–17:00

Author in Attendance: 15:30–17:00

Chairperson: Stephen Lokier and Thomas Steuber

- A409 EGU2011-2437
Janos Haas, Olga Piros, Tamás Budai, Ágnes Görög, Gerhard Mandl, and Harold Lobitzer
 Transition between the massive reef - backreef and cyclic lagoon facies of the Dachstein Limestone in the southern part of the Dachstein Plateau, Northern Calcareous Alps, Upper Austria
- A410 EGU2011-3497
Mélanie Turpin, Thomas Rinder, Martin Dietzel, Juan R. Bahamonde, and Adrian Immenhauser
 Granulometry and geochemistry of micritic carbonates along a Carboniferous and a Jurassic platform to basin transects
- A411 EGU2011-4403
Stephen Lokier, Flavia Fiorini, and Yunlong Zhao
 Temporal evolution of Recent shallow-marine sedimentary facies belts, offshore Abu Dhabi, United Arab Emirates
- A412 EGU2011-6945
Christian Scheibner, Dierk Blomeier, and Holger Forke
 Late Carboniferous cyclic carbonate platform deposits from the Franklinan Shelf: from Svalbard to the Sverdrup Basin
- A413 EGU2011-4415
Ayesha Eid Al-Suwaidi, Stephen Lokier, and Thomas Steuber
 Stable isotope sclerochronology of Pleistocene shells of *Tridacna* from Abu Dhabi (UAE)
- A414 EGU2011-10980
 Maria Schaffhauser, Karl Krainer, and **Diethard Sanders**
 The Trogkofel Limestone (Lower Permian, Carnic Alps): a shallowing-upward succession of a carbonate platform margin
- A415 EGU2011-11604
Arnoud Slootman, Robert A. Kil, Jort G. Koopmans, Joris T. Eggenhuisen, Poppe L. de Boer, and Andrea Moscariello
 Geometry and facies distribution of a biocalcarenitic wedge; Favignana Island, Sicily, Italy
- A416 EGU2011-11956
Valentina Rossi, Fabrizio Berra, Alessandro Lanfranchi, Flavio Jadoul, and Cristiana Panzeri
 Sedimentological analysis of large-scale cross-beds from the Burdigalian mixed carbonate-siliciclastic succession of the Bonifacio Basin (South Corsica)

NH3.11/SSP3.4 – Submarine Landslides: Mechanisms, Processes and their Sedimentary Record (co-organized) – Orals

Convener: Roger Urgeles | Co-Conveners: Alessia Errera, Michi Strasser, David Mosher, Jason Chaytor

Room: 1

Chairperson: Michael Strasser, Alessia Errera

- 13:30–13:45 EGU2011-4550
Pierre Henry, Toshiya Kanamatsu, Michael Strasser and the IODP Expedition 333 Scientists Team
 Drilling Quaternary submarine landslides on the Nankai accretionary wedge: Results from IODP Expedition 333
- 13:45–14:00 EGU2011-4141
Kei Ogata, Emiliano Mutti, Roberto Tinterri, and Gian Andrea Pini
 Mass transport complex in confined intra-slope basins: the case study of the Epiligurian Specchio unit (Northern Apennines, Italy)
- 14:00–14:15 EGU2011-976
Justin O'Shay, Robert Weiss, and Costas Synolakis
 How long does it take to generate tsunami waves by submarine landslides?
- 14:15–14:30 EGU2011-9771
Nicole J. Baeten, Jan Sverre Laberg, Matthias Forwick, Tore O. Vorren, Michael Ivanov, Maarten Vanneste, Carl Fredrik Forsberg, and Tore J. Kvalstad
 Small-scale mass wasting on the continental slope offshore Lofoten, northern Norway
- 14:30–14:45 EGU2011-1425
Sebastian Krastel, Mathias Meyer, Ingo Klaucke, Russell B. Wynn, Aggeliki Georgiopolou, Inga Golbeck, and Daniel Winkelmann
 New data from the Sahara Slide complex off NW-African: timing, failure processes, and hazard potential

14:45–15:00 EGU2011-11514

Roger Urgeles and Angelo Camerlenghi

Submarine landslides in the continental margins of the Mediterranean Sea: spatial distribution, major characteristics and implications for geohazard assessment

NH3.11/SSP3.4 – Submarine Landslides: Mechanisms, Processes and their Sedimentary Record (co-organized) –

Posters

Convener: Roger Urgeles | Co-Conveners: Alessia Errera, Michi Strasser, David Mosher, Jason Chaytor

Halls X/Y | Display Time 08:00–17:00

Author in Attendance: 15:30–17:00

Chairperson: Alessia Errera, Michael Strasser

XY234 EGU2011-4609

Daniel Winkelmann and Wolfram Geissler

Assessing Arctic Submarine Slope Stability - Investigating the Glide Planes of the Hinlopen/Yermak Megaslide by Scientific Ocean Drilling

XY235 EGU2011-4603

Daniel Winkelmann, Julia Schwab, Michi Strasser, Benedict Preu, Tilmann Schwenck, and Sebastian Krastel

Large-Scale Submarine Mass-Masting offshore Uruguay

XY236 EGU2011-4608

Shu-Kun Hsu, Ching-Hui Tsai, Hsin-Yi Lin, and Song-Chuen Chen

Slope failure and fluid flow in the northern margin of South China Sea

XY237 EGU2011-4219

Matthias Forwick, Jan Sverre Laberg, Maarten Vanneste, and Tore O. Vorren

Down- and along-slope erosional and depositional processes on the NW Svalbard continental slope

XY238 EGU2011-9197

Michele Rebesco, Angelo Camerlenghi, Renata G. Lucchi, Maria Teresa Pedrosa Gonzalez, Chiara Sauli, Gianni Madrussani, and Roger Urgeles

Thin-skinned and giant submarine landslides on the southern Storfjorden Trough Mouth Fan (western Barents Sea)

XY239 EGU2011-11297

Stefan Bünz, Runar Johansen, Jan-Sverre Laberg, and Jürgen Mienert

3D Seismic Analysis of Buried Slide Deposits in the SW Vøring Basin, Mid-Norwegian Margin

XY240 EGU2011-3452

Nicolas Pinet, Virginia Brake, Gabriel Huot-Vézina, Calvin Campbell, and Mathieu J. Duchesne

Comparative quantitative geomorphology of Holocene mass-transport deposits, St. Lawrence River Estuary, Canada.

XY241 EGU2011-743

Chenglin Gong, Yingmin Wang, Weilin Zhu, and Weiguo Li

Unidirectional-migrating Slope Channel Systems in the Baiyun Depression, Pearl River Mouth Basin: morphology, architecture, and depositional processes

XY242 EGU2011-6047

Antonio Cattaneo, Daniel Minisini, Alessandra Asioli, Miquel Canals, Ben De Mol, Sara Lafuerza, Galderic Lastras, Alessandro Remia, Nabil Sultan, and Marco Taviani

Age constraints and sediment properties of Ana Slide (Balearic Sea, Western Mediterranean) and implications on age dating of submarine landslides

XY243 EGU2011-13552

James Hunt and Russell Wynn

Use of distal turbidites to decipher landslide records of frequency, volume and failure mechanism: case studies from the Moroccan Turbidite System

XY244 EGU2011-13564

James Hunt and Russell Wynn

Landslide and earthquake events recorded in distal turbidites in the deepwater basins of the Western European Margin

XY245 EGU2011-4738

Anne Bernhardt, Lisa Stright, and Donald R. Lowe

Debris Flow and Turbidity Current Interactions in a Large Submarine Axial Channel Belt, Upper Austrian Molasse Basin

XY246 EGU2011-6338

Alexander Goater and Andrew Hogg

Modelling Submarine Turbidity Currents

XY247 EGU2011-2335

Sueng-Won Jeong, Jacques Locat, Serge Leroueil, and Jean-Loup Robert

Fluidization process in submarine landslides due to water infiltration caused the high mobility of debris flows

- XY248 EGU2011-7656
Atsuya Tsukui, Hiroshi Fukuoka, Akito Tsutsumi, and Shintaro Yamasaki
 Sliding-surface-liquefaction of sand-dry ice mixture and long runout submarine landslides
- XY249 EGU2011-8883
Anna Reusch, Gauvain Wiemer, Achim Kopf, and Michael Strasser
 Submarine slope stability at the Nankai Trough - dynamic triaxial testing of water-saturated sediment samples
- XY250 EGU2011-1366
Hiroyuki Matsumoto, Toshitaka Baba, and Yoshiyuki Kaneda
 Evidence of submarine landslide triggered by the 2009 Suruga Bay, Japan earthquake
- XY251 EGU2011-6419
Chih-Chieh Su, Jing-Yi Tseng, Ho-Han Hsu, Ho-Shing Yu, and James T. Liu
 The Submarine Hazards Off Southwestern Taiwan: from 2006 Pingtung Earthquake to 2009 Morakot Typhoon

BG7.4/SSP3.6 – Methane and gas hydrates in marine and terrestrial environments: sources, sinks and ecosystems (co-organized) – Orals

Convener: Alina Stadnitskaia | Co-Conveners: Tomas Feseker, Helge Niemann, Matthias Haeckel, Judith Maria Schicks

Room: 24

Chairperson: Helge Niemann and Tomas Feseker

- 13:30–13:45 EGU2011-12142
Stefanie Kirschke, Philippe Ciais, Philippe Bousquet, Josep Canadell, and Corinne Le Quéré
 A Close-up of the Methane Global Budget
- 13:45–14:00 EGU2011-8195
Abhijit Basu, Martin G. Schultz, and Louis François
 Methane emission from wetlands and its role in present day and paleoclimate
- 14:00–14:15 EGU2011-13563
Oscar J. Guerrero, Rodrigo Jiménez, John C. Lin, Glenn S. Diskin, Glen W. Sachse, Eric A. Kort, and Jed O. Kaplan
 Assessing methane fluxes over Colombia and Panama using Lagrangian simulation and aircraft-borne measurements during TC4
- 14:15–14:30 EGU2011-2157
Lukasz Chmura, Jaroslaw Necki, Adam Korus, Mirosław Zimnoch, Janusz Rosiek, Michał Galkowski, and Kazimierz Rozanski
 Impact of coal mining on elevated CH₄ levels in near-ground regional atmosphere over southern Poland
- 14:30–14:45 EGU2011-7397
Anna Maria Pytlak, Zofia Stępniewska, and Agnieszka Wołoszyn
 Environmental requirements and group-specific identification of methanotrophic bacteria inhabiting, hard coal-associated rocks
- 14:45–15:00 EGU2011-6686
Esther T. Arning, Wolfgang van Berk, and Hans-Martin Schulz
 Quantification and controlling factors of methane loss and storage within marine sediments along a transect off Peru
- 15:00–15:15 EGU2011-9420
Pei-Chuan Chuang, Tsanyao Frank Yang, Klaus Wallmann, Saulwood Lin, Yunshuen Wang, and San-Hsiung Chung
 Estimation of advective methane flux in gas hydrate potential area offshore SW Taiwan and its tectonic implications
- Chairperson: Matthias Haeckel and Judith Maria Schicks
- 15:30–15:45 EGU2011-2717
Bernard Boudreau
 The Physics of Methane Bubbles in Cohesive Sediments
- 15:45–16:00 EGU2011-11525
Bjørn Kvamme, Mohammad Taghi Vafaei, Ashok Chejara, and Khaled Jemai
 Reservoir scale simulation of hydrate dynamics
- 16:00–16:15 EGU2011-3486
Mert H. Kucuk, Derman Dondurur, Gunay Cifci, and Mustafa Ergun
 Distribution of BSRs and gas accumulations offshore of Zonguldak Region, Central Blacksea
- 16:15–16:30 EGU2011-11528
 Georg Janicki, Stefan Schlüter, Torsten Hennig, and **Görge Deerberg**
 Extraction of natural gas from subsea gas hydrate deposits coupled with CO₂ storage - Modeling and simulation

- 16:30–16:45 EGU2011-5186
Fengping Wang, Yu Zhang, Jinquan Chen, Caochun Wei, Nico Boon, and Xiang Xiao
Metagenome and metatranscriptome analysis revealed key metabolic pathways in a simulated anaerobic methane oxidation - sulfate reducing community
- 16:45–17:00 EGU2011-8737
Iana Tsandev, Pierre Regnier, Andrew Dale, and Andy Ridgwell
Methane processing in arctic shelves and the role of anaerobic methane oxidation
- 17:00–17:15 EGU2011-4912
Daniel Birgel, Dong Feng, Harry H. Roberts, and Jörn Peckmann
Authigenic carbonates record changing redox conditions at cold seeps from Alaminos Canyon, northern Gulf of Mexico

