

EGU General Assembly 2011
Programme Group Programme
GD – Geodynamics

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Monday, 04 April

GD1.1/BG8.3/GMPV44/TS1.3 – Early Earth: from deep dynamics to surface life (co-organized) – Orals

Convener: Jeroen van Hunen | Co-Conveners: Emmanuelle J. Javaux, Nicolas Flament, Nicholas T. Arndt

Room: 3

Chairperson: n.n.

08:30–08:45 EGU2011-13451

David Fernandez-Remolar

Long term preservation of biological molecules under acidic conditions supports their persistence in the old acidic sediments of Mars

08:45–09:00 EGU2011-5347

Elizabeth Chacon B., Ricardo Rodriguez-Ramirez, Augusto Rodriguez, and Carlos Gonzalez Leon

Biosedimentary Signatures: revisiting the Huepac chert from the Tarahumara Formation

09:00–09:15 EGU2011-10214

Emmanuelle J. Javaux

Macroevolution in early eukaryotes

09:15–09:30 EGU2011-13411

Woodward Fischer

Si isotope ratios in ancient marine chert provide a test of hypotheses for the origin of Precambrian iron formation

09:30–10:00 EGU2011-3929

Martin Brasier, Richard Matthewman, Sean McMahon, and David Wacey

Pumice as a remarkable substrate for the origin of life

GD1.4 – Polar Heatflow: geology, ice sheets and climate – Posters

Convener: Alan Vaughan | Co-Conveners: Richard C.A. Hindmarsh, Fausto Ferraccioli, Larry Lawver

Hall A | Display Time 08:00–19:30

Author in Attendance: 15:30–17:00

Chairperson: Alan Vaughan

A1 EGU2011-6533

Karsten Gohl, Norbert Kaul, and Astrid Denk

Heat-flow in the Amundsen Sea Embayment and Pine Island Bay, West Antarctica

A2 EGU2011-6629

Gary Clow, **Edwin Waddington**, Robert Hawley, and Dorthe Dahl-Jensen

Subglacial Heat Flow Measurements in Greenland and Antarctica

A3 EGU2011-7508

Irina Rogozhina, Ondrej Soucek, Zdenek Martinec, Jan Hagedoorn, Kevin Fleming, and Maik Thomas

Different present-day geothermal heat flux scenarios for the case of the Greenland Ice Sheet

A4 EGU2011-12139

Alan P.M. Vaughan, Fausto Ferraccioli, Philip T. Leat, Richard C.A. Hindmarsh, Michael E. Purucker, and Alexander (Sasha) Golynski

The potential for unveiling lithosphere provinces and heat flow in East Antarctica

A5 EGU2011-12261

Antonio Correia, Gonalo Vieira, and Miguel Ramos

Contribution for heat flow density estimation in a 26 m deep borehole in Reina Sofia Mountain, Livingston Island, Maritime Antarctica

A6 EGU2011-12415

Nick J. Kusznir and Andy Alvey

Arctic Regional Heat-flow Prediction from Mapping of Crustal Thickness and Continental Lithosphere Thinning using Gravity Inversion

A7 EGU2011-12540

Richard C.A. Hindmarsh and Catherine M Ritz

How deep do you need to drill through ice to measure the geothermal heat flux?

A8 EGU2011-12650

Leo Peters and Sridhar Anandakrishnan

Inferences on geothermal flux in glaciated regions via active seismic methods

G3.2/AS4.19/CL4.9/GD1.6/NH4.8/SM5.7 – Geodesy and natural and induced hazards: Progress during 30 years of the WEGENER initiative (co-organized) – Orals

Convener: Susanna Zerbinì | Co-Conveners: Robert Reilinger, Mustapha Meghraoui

Room: 18

Chairperson: S. Zerbini and D. Mencin

- 15:30–15:45 EGU2011-9002
Erricos C. Pavlis
GGOS Global Geodetic Networks: Their Impact on WEGENER
- 15:45–16:00 EGU2011-1795
Chopo Ma
The IVS and its impact on geodesy and geophysics
- 16:00–16:15 EGU2011-3569
Carine Bruyninx, Juliette Legrand, Nicolas Bergeot, and Eric Pottiaux
Measuring long-term ground deformations using GNSS: Experiences from the EPN
- 16:15–16:30 EGU2011-5865
Douglas Cripe
GEOSS: Observe, Share, Inform
- 16:30–16:45 EGU2011-1974
Frank Flechtner, Jens Wickert, Srinivas Bettadpur, Byron Tapley, and Mike Watkins
GRACE: A highly successful satellite mission supporting the goals of the WEGENER project
- 16:45–17:00 EGU2011-11427
C.k. Shum and Chungyen Kuo
WEGENER Project After Three Decades: Regional and Global Sea-Level Rise

SM1.2/EG11/G6.4/GD1.7/TS1.6 – Large Scale European Research Facilities/Infrastructures: Data acquisition; Data Storage; Data Access (co-organized) – Orals

Convener: Massimo Cocco | Co-Conveners: Wim Spakman, John Ludden, Torild Eck Van, Paolo Favalli

Room: 26

Chairperson: Torild van Eck

- 08:30–08:45 EGU2011-2282
Paolo Favali and Emso Partnership
EMSO: European Multidisciplinary Seafloor and water column Observatory: state and plan
- 08:45–09:00 EGU2011-8483
Massimo Cocco, Joern Lauterjung, Domenico Giardini, and the EPOS Consortium
The EPOS integration plan for Research Infrastructures in solid Earth Science: working strategy and preliminary achievements
- 09:00–09:15 EGU2011-4616
Keith Jeffery, Jean Pierre Vilotte, and Alberto Michelini
The EPOS e-Science Concept and the Planned e-Infrastructure
- 09:15–09:30 EGU2011-8606
Torild van Eck, Remy Bossu, Salvatore Mazza, Nicos Melis, Lars Ottemöller, and Winfried Hanka
EPOS and the seismological observational research infrastructure
- 09:30–09:45 EGU2011-11067
Giuseppe Puglisi, Patrick Bachelery, Teresa J.L. Ferreira, Kristín S. Vogfjörð and the EPOS Volcano Observatory working group Team
Roadmap for a European volcanological infrastructure within EPOS
- 09:45–10:00 EGU2011-9474
Kristine Asch
One Geology, One Europe, One Foundation

COFFEE BREAK

Chairperson: Massimo Cocco

- 10:30–10:45 EGU2011-6808
John Ludden, Henning Lorenz, and Luca Demicheli
A Geologic Baseline and research infrastructure as part EPOS
- 10:45–11:00 EGU2011-11941
Luisa Bastos, Jean-Mathieu Nocquet, and on behalf of WG4 Epos Team
Current status of the Geodetic Component of EPOS
- 11:00–11:15 EGU2011-8745
Salvatore Stramondo, Alain Arnaud, Roberto Cossu, Michael Eineder, Paolo Gamba, Steven Hosford, Riccardo Lanari, Luigi Fusco, and Eliana Li Santi
EPOS Satellite Information WG: technical activities and objectives

SM1.2/EG11/G6.4/GD1.7/TS1.6 – Large Scale European Research Facilities/Infrastructures: Data acquisition; Data Storage; Data Access (co-organized) – Posters

Convenor: Massimo Cocco | Co-Conveners: Wim Spakman, John Ludden, Torild Eck Van, Paolo Favalli

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Russ Evans

- XY640 EGU2011-7830
Leo Kriegsman
 Natural history collections and (meta)data: an outline of the infrastructure landscape
- XY641 EGU2011-8320
Torild van Eck, Reinoud Sleeman, Gert-Jan van den Hazel, Alessandro Spinuso, Luca Trani and the ORFEUS/NERA/EIDA/VEBSN Team
 ORFEUS: Seismological waveform data archiving and access in Europe: A NERA service activity
- XY642 EGU2011-8487
Emily Delahaye, Dmitry Storchak, Istvan Bondar, and James Harris
 International Seismological Centre (ISC): Mission and Status
- XY643 EGU2011-8626
Nicola D'Agostino and the RING Working Group Team
 The RING GPS network: a research geodetic infrastructure to study plate boundary deformation in the Central Mediterranean
- XY644 EGU2011-8830
Josep Gallart and EPOS-Spain Working Group
 EPOS-Spain Institutions and Research Infrastructures
- XY645 EGU2011-9190
Wojciech Debski, Grzegorz Mutke, Janusz Mirek, Jerzy Suchcicki, Waldemar Jozwiak, Pawel Wiejacz, and Jacek Trojanowski
 Polish Geophysical Solid Earth Infrastructure Contributing to EPOS- Current State
- XY646 EGU2011-9481
Jochen Woessner, Domenico Giardini and the NERA-EFEHR Team
 The European Facility for Earthquake Hazard and Risk (EFEHR): Remote Access to Hazard and Risk Products
- XY647 EGU2011-9527
Kuvvet Atakan, Conrad Lindholm, Valerie Maupin, Lars Ottemöller, Mathilde B. Sørensen, Halfdan P. Kierulf, Jörg Ebbing, Tor Langeland, and Farrokh Nadim
 The Arctic dimension of the European Plate Observing System (EPOS) and the Norwegian contribution
- XY648 EGU2011-9637
Kristín Vogfjörð, Einar Kjartansson, Ragnar Sigbjörnsson, Símon Ólafsson, Benedikt Halldórsson, Freysteinn Sigmundsson, Sigrún Hreinsdóttir, and Gudmundur Valsson
 Networking of Icelandic Geophysical Infrastructures
- XY649 EGU2011-9799
Linus Kamb, Laurent Frobert, Gilles Mazet-Roux, and Remy Bossu
 EMSC Earthquake Information Services: Remote Access to Earthquake Parametric Data and Products - a NERA service activity
- XY650 EGU2011-9860
Linus Kamb, Laurent Frobert, Alessandro Spinuso, Luca Trani, Remy Bossu, and Torild van Eck
 NERIES Seismology IT Infrastructure
- XY651 EGU2011-10879
Jan Zedník and Pavel Hejda
 CzechGeo/EPOS - Distributed system of the geophysical observations in the Czech Republic
- XY652 EGU2011-11856
 Marcello Martini, Sergio Gurrieri, and **Domenico Patanè**
 Volcano Monitoring of the Italian active Volcanoes
- XY653 EGU2011-11018
Filippos Vallianatos and the GSLab Team
 The Geophysics and Seismology Unit and the Hellenic Seismological Network of Crete (HSNC): An innovative infrastructure in the front of the Hellenic Arc.
- XY654 EGU2011-10966
Robert Barsch, Moritz Beyreuther, Lion Krischer, Tobias Megies, Yannik Behr, Conny Hammer, Martin van Driel, and Joachim Wassermann
 ObsPy: A Python Toolbox for Seismology/Seismological Observatories

- XY655 EGU2011-10786
Salvatore Mazza, Giampaolo Cecere, Alberto Delladio, Alfonso Mandiello, Lucia Margheriti, and Giulio Selvaggi
 The INGV National Earthquake Centre research infrastructure to study the plate boundary deformation in the Central Mediterranean.
- XY656 EGU2011-5593
Helle Pedersen and the RESIF and national French EPOS working groups Team
 The RESIF project: preparing a the French national infrastructure for EPOS
- XY657 EGU2011-9784
Angelo Strollo, Bertrand Delouis, Aladino Govoni, Sebastian Hainzl, Stephan Husen, Lucia Margheriti, Anne Paul, Catherine Pequegnat, and Monika Sobesiak
 Networking European Rapid response Networks
- XY658 EGU2011-10227
G rard M. Chanteur, Maria-Teresa Capria, Walter Schmidt and the The EuroPlaNNet/IDIS Team
 EuroPlaNNet/IDIS, a scientific gateway for planetary sciences
- XY659 EGU2011-10914
Stefania De Zorzi, Robert Laurini, Gobe Hobona, Giovanni Rocca, Dolores Barrot, and Maria Pla
 Definition of a common INSPIRE-driven elevation model and its

GMPV21/GD2.15 – Rock forming minerals: properties, information and constraints on petrological processes and numerical models (sponsored by EMU) (co-organized) – Orals

Convener: Roberta Oberti | Co-Conveners: James Connolly, Matthias Konrad-Schmolke, Elena Sokolova, Christian Chopin, Fernando Gervilla

Room: 31

Chairperson: Roberta Oberti

- 13:30–14:00 EGU2011-10703
Fabrizio Nestola
 A new approach to the study of mineral inclusions in diamond
- 14:00–14:15 EGU2011-8242
Frank Hawthorne
 Mechanistic controls on variations in chemical composition of amphiboles as a function of T and P
- 14:15–14:30 EGU2011-3388
Ross Angel, Lindsay Sochalski-Kolbus, Nancy Ross, Mario Tribaudino, and Fabrizio Nestola
 Towards a structure-based model for the thermodynamic properties of feldspars
- 14:30–15:00 EGU2011-8205
Darrell Henry and Barbara Dutrow
 Tourmaline as a petrogenetic indicator mineral: where are we in 2011?
- Chairperson: Matthias Konrad-Schmolke
- 15:30–15:45 EGU2011-3077
Richard White
 Thermodynamic modelling of metamorphism: promises, pitfalls and future directions
- 15:45–16:00 EGU2011-8438
Charles A. Geiger and Edgar Dachs
 Garnet: Current State of Knowledge & Future Research Directions
- 16:00–16:15 EGU2011-5103
Eleanor Green, Tim Holland, Roger Powell, and Richard White
 Progress in the development of an activity-composition model for silicate melt in THERMOCALC
- 16:15–16:30 EGU2011-11043
Patrick O'Brien
 Pseudosections, pseudo P-T paths and pseudo petrology: the difficulty of defining the reactive system when solving disequilibrium problems with an equilibrium method
- 16:30–16:45 EGU2011-5920
Lucie Tajmanov , Rainer Abart, Gregor Neusser, and Dieter Rhede
 Growth mechanisms for decompression plagioclase rims around metastable kyanite from high-pressure felsic granulites (Bohemian Massif): A thermodynamic approach
- 16:45–17:00 EGU2011-10761
Taras Gerya and James Connolly
 Coupled petrological-thermomechanical modelling of lithospheric processes: methodology and examples

GMPV21/GD2.15 – Rock forming minerals: properties, information and constraints on petrological processes and numerical models (sponsored by EMU) (co-organized) – Posters

Convener: Roberta Oberti | Co-Conveners: James Connolly, Matthias Konrad-Schmolke, Elena Sokolova, Christian Chopin,

Fernando Gervilla

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: E. Sokolova M. Konrad-Schmolke

- XY312 EGU2011-3969
Amir Ali Tabbakh Shabani
Composition of Lens Form Ca-Al silicates in Biotite from Granitic Rocks of the Canadian Appalachians
- XY313 EGU2011-3975
Amir Ali Tabbakh Shabani
An Investigation on the Composition of Chlorite Replacing Biotite from the Canadian Appalachian granites
- XY314 EGU2011-6188
Norikatsu Akizawa, Shoji Arai, and Akihiro Tamura
Chromite and uvarovite in rodingites from the lowermost crust section of the Oman ophiolite: Possibility of Cr mobility in hydrothermal conditions
- XY315 EGU2011-6977
Annamaria Fornelli, Antonio Langone, Francesca Micheletti, Annarita Pascazio, and Giuseppe Piccarreta
Dating high-grade south European Variscan evolution: constraints from trace element chemistries of garnet, zircon and orthopyroxene on U-Pb zircon ages.
- XY316 EGU2011-12014
Guy Hovis, **Daniel Harlov**, Matthias Gottschalk, and Georg Schettler
Unit-cell data and XRD compositional indicators for fluorapatite-chlorapatite crystalline solutions
- XY317 EGU2011-12591
Azzurra Zucchini, Paola Comodi, Mauro Prencipe, Francesco Frondini, Catherine McCammon, and Tonci Balic Zunic
Cation disordering in dolomite: theoretical and experimental approach.
- XY318 EGU2011-8243
Clémentine Meiller, Teddy Parra, Eric Kohler, Gilles Wallez, and Fernanda De Mesquita Veloso
Clay molar volume variations during dehydration as a function of chemical composition, water activity and humidity
- XY319 EGU2011-11183
Roberta Oberti, Michele Zema, Massimo Boiocchi, Serena Tarantino, and Mark D Welch
HT-induced processes in monoclinic and orthorhombic amphiboles and their effects on thermodynamic models
- XY320 EGU2011-1660
Fabrizio Nestola, Daria Pasqual, Joseph R. Smyth, Davide Novella, Luciano Secco, Murli H. Manghnani, Alberto Dal Negro, and Serena Tarantino
Elasticity data along the forsterite - fayalite solid solution
- XY321 EGU2011-3226
El Atrassi Fatima, Brunet Fabrice, Bouybaouene Mohamed, Chopin Christian, Chazot Gilles, and Boudouma Omar
Melting textures and microdiamonds preserved in graphite pseudomorphs from the Beni Bousera peridotite massif, Morocco
- XY322 EGU2011-1891
José Julián Esteban, Julia Cuevas, José María Tubía, Néstor Vegas, and Francisco Velasco
Birbrite occurrence in the Ronda peridotites (Betic Cordilleras, southern Spain)
- XY323 EGU2011-3461
Tom Andersen, Paul Carr, and Muriel Erambert
Siderite and zirconian pyroxene in the Mt Gibraltar microsyenite, New South Wales, Australia: Late magmatic mineralogy reflecting uncommon crystallization conditions and magma composition.
- XY324 EGU2011-10950
Maria Teresa Cristi Sansone and **Giovanna Rizzo**
Pumpellyite veins in the metadolerite of the Frido Unit (southern Appennines, Italy)
- XY325 EGU2011-6422
Marc Ulrich, Manuel Muñoz, Stéphane Guillot, Catherine Chauvel, Dominique Cluzel, and Christian Picard
Alteration of the New Caledonia ophiolite: Mineralogical and geochemical investigations
- XY326 EGU2011-9173
Fernando Gervilla, Isabel Fanlo, Thomas N. Kerestedjian, Ricardo Castroviejo, Jose Maria Gonzalez-Jimenez, Jose Alberto Padron, and José Feliciano Rodrigues
Alteration Mechanism of Chromite in Podiform Chromitites from two Metamorphosed Ophiolitic Complexes: Golyamo Kamenyane (Bulgaria) and Tapo (Peru)
- XY327 EGU2011-14043
Mark Welch, Fernando Camara, Roberta Oberti, Giacomo D. Gatta, and Nicola Rotiroti
Quantifying the stabilities of biopyriboles in Nature

- XY328 EGU2011-12189
Giovanna Agrosi, Eugenio Scandale, and Gioacchino Tempesta
Growth Marks of titanian-andradite crystals from Colli Albani (Italy)
- XY329 EGU2011-5992
Marie-Lola Pascal
Quartz solubility in H₂O-CO₂ fluids as function of H₂O density
- XY330 EGU2011-451
Florentina Cornelia Enea, Jeanette Taylor, Craig D Storey, and Horst R. Marschall
Rutile geochemistry and its potential use as a petrogenetic tool
- XY331 EGU2011-3748
Christiane Wagner and Marie-Lola Pascal
Multi-stage melt-rock interactions in peridotite xenoliths inferred from micro textural and chemical evidences.
- XY332 EGU2011-477
Charlotte Redler, Tim E. Johnson, and Richard W. White
Phase equilibria constraints on the pressure and temperature evolution of metapelites in the Ivrea Zone
- XY333 EGU2011-476
Barbara E. Kunz, Tim E. Johnson, and Richard W. White
A mid-crustal metamorphic field gradient in Val Strona di Omegna, Ivrea Zone, Italy: constraints from metabasic rocks
- XY334 EGU2011-13367
Tommaso Giovanardi, **Alberto Zanetti**, Maurizio Mazzucchelli, Tomoaki Morishita, Massimo Tiepolo, and Riccardo Vannucci
Magmatic sapphirine from gabbroic veins cutting the Finero mantle sequence (Southern Alps): Petrology, geochemistry and geodynamic context
- XY335 EGU2011-118
Hisako Shimizu, Toshiaki Tsunogae, and Mw Santosh
The stability of sapphirine in magnetite-bearing high oxygen fugacity granulites: a case study of the Madurai Block (Southern India) and the Inner Mongolia Suture Zone (North China)
- XY336 EGU2011-2041
Kam Kuen Wu and Guochun Zhao
Metamorphism of the Northern Liaoning Domain: Implications for the Tectonic Evolution of the Archean Basement Rocks of the Eastern Block, North China Craton
- XY337 EGU2011-686
Axel Zirkler, Tim E. Johnson, Richard W. White, and Thomas Zack
Modelling P-T conditions in the Cnoc an t'Sidhean supracrustal rocks of the Lewisian complex near Stoer, NW Scotland.
- XY338 EGU2011-690
Tobias Eberlei, Richard White, Tim Johnson, Kurt Stüwe, and Cornelia Roffeis
High-precision geobarometry across the Plattengneiss shear zone in the Koralpe, Eastern Alps, Austria
- XY339 EGU2011-4463
Pritam Nasipuri, Holger Stunitz, Ježábek Petr, Erling J. Krogh Ravna, and Florian Fusseis
Mineral chemistry, geothermobarometry and P-T-X modelling of shear zone in gabbroic rock
- XY340 EGU2011-3948
Kazuhiro Ozawa, Jean-Louis Bodinier, Carlos Garrido, and Hiroko Nagahara
P-T-d history of Pyrenean peridotite massifs decoded by Al and Ca distribution in orthopyroxene megacrysts: synchronous operation of deformation and P-T change
- XY341 EGU2011-1326
Elizaveta Tumarkina, James A.D. Connolly, Yuri Podladchikov, and Santanu Misra
The effect of shear deformation on reaction kinetics: A coupled thermodynamical and mechanical model
- XY342 EGU2011-11886
olivier vidal, benoit dubacq, vincent deandrade, pierre lanari, and manuel munoz
local equilibrium and P-T-deformation-relative age mapping at the thin section scale
- XY343 EGU2011-12661
Hans Vrijmoed and Brad Hacker
Determining PT paths from garnet zoning using a brute-force computational method
- XY344 EGU2011-10294
Matthias Konrad-Schmolke, Patrick O'Brien, and Thomas Zack
Constraining the effect of fluid-rock interaction on amount and composition of subduction zone fluids using thermodynamic and trace element models
- XY345 EGU2011-10136
Michael Pöhle, Matthias Konrad-Schmolke, and Sandro Jahn
Two-dimensional thermodynamic and trace element models of subduction zones
- XY346 EGU2011-7539
Stephan Klemme
Calculated phase relations of depleted mantle lithosphere

GD3.3/TS10.3 – Neoproterozoic basins and orogenesis in the circum-North Atlantic region (co-organized) – Posters

Convener: Peter Cawood | Co-Conveners: Rob Strachan

Hall A | Display Time 08:00–19:30

Author in Attendance: 15:30–17:00

Chairperson: Rob Strachan

- A9 EGU2011-120
Kathryn Cutts, Martin Hand, Rob Strachan, David Kelsey, and Peter Cawood
Valhalla orogenesis in the North Atlantic region: characterisation of the Knoydartian and Renland events using integrated phase modelling and in situ LA-ICPMS geochronology
- A10 EGU2011-2477
Maarten Krabbendam, Helen Bonsor, Tony Prave, and Rob Strachan
Grenville Foreland basin sedimentation in Scotland: structure, stratigraphy and sedimentology of the early Neoproterozoic Torridon and Morar group sequences
- A11 EGU2011-1357
Helen Bonsor, Rob Strachan, Tony Prave, and **Maarten Krabbendam**
A complete sedimentological transect of the early Neoproterozoic Morar Group in northern Scotland: reappraisal of the basin and tectonic setting
- A12 EGU2011-7419
Rob Strachan, Peter Kinny, Mike Fowler, and Ian Millar
Early Neoproterozoic (c. 1000-960 Ma) sedimentation and magmatism in northern Scotland: constraints on tectonothermal events within the peri-Rodinian Valhalla Orogen
- A13 EGU2011-7580
Graham Leslie, Martin Smith, Martin R. Gillespie, and Maarten Krabbendam
Extension preceding continental rupture and generation of the Laurentian ocean-continent transition zone - Neoproterozoic basement-cover relationships in the Grampian Caledonides of Scotland.
- A14 EGU2011-10859
Anna Bird, Matthew Thirlwall, and Rob Strachan
New evidence for the timing of Neoproterozoic metamorphic events in the northwest Highlands - insights from Lu-Hf and Sm-Nd dating
- A15 EGU2011-10882
Fernando Corfu
Constraints on the origin of the Seve and Kalak Nappe Complexes, Scandinavian Caledonides
- A16 EGU2011-14102
David G. Gee, Anna Ladenberger, Stefan Claesson, Jaroslaw Majka, Peter Robinson, Per-Gunnar Andréasson, and Yaron Be'eri-Shlevin
Sediment provenance signatures in the Middle Allochthon of the Scandinavian Caledonides - evidence of Sveconorwegian source terrains
- A17 EGU2011-1663
Chris Kirkland, Stephen Daly, Simon Johnson, and Elena Belsousova
Lu-Hf evolution patterns and implications for palaeotectonic settings

SM1.3/G3.8/GD3.7/GI-19/TS8.7 – Improving seismic networks performances: from site selection to data integration (co-organized) – Orals

Convener: Damiano Pesaresi | Co-Conveners: John Clinton, Robert Busby

Room: 26

Chairperson: n.n.

- 12:00–12:15 EGU2011-9669
Frank Vernon, Jennifer Eakins, Robert Newman, Geoff Davis, Brian Battistuz, Juan Reyes, and Luciana Astiz
Goals, Accomplishments, Realities, and Future Directions for Network Operations Based on the Array Network Facility for the NSF EarthScope USArray Transportable Array.
- 12:15–12:30 EGU2011-6576
Carlo Cauzzi and John Clinton
Improving waveform quality and data accessibility for the Swiss Strong Motion Network: challenges and issues.
- 12:30–12:45 EGU2011-11536
Ruben Luis, Jens Havskov, Teresa Ferreira, Lars Ottemöller, Rita Marques, Dina Silveira, Rogério Sousa, Ana Medeiros, Nuno Cabral, Rita Carmo and the CVARG Technical Team
Recent Advances of the CIVISA Seismic Monitoring Network in the Azores Islands

LUNCH BREAK

Chairperson: n.n.

- 13:30–13:45 EGU2011-11252
Antonino D'Alessandro, Gianpaolo Cecere, Alessandro Amato, and Giulio Selvaggi
 Improving the location performance of a seismic network through the SNES method
- 13:45–14:00 EGU2011-5077
Adrien Oth, Maren Böse, Friedemann Wenzel, Nina Köhler, and Mustafa Erdik
 Evaluation and optimization of seismic networks for earthquake early warning - The case of Istanbul (Turkey)
- 14:00–14:15 EGU2011-9022
Christos Evangelidis, Nikolaos Melis, and Ioannis Kalogeras
 Monitoring broadband seismic noise in the Hellenic Unified Seismic Network (HUSN)
- 14:15–14:30 EGU2011-9232
Robert Busby, Frank Vernon, Robert Newman, and Katrin Hafner
 EarthScope's Transportable Array: Concepts and Practice in Managing Quality Control for Seismic Networks
- 14:30–14:45 EGU2011-13202
Reinoud Sleeman, Torild van Eck, and Gert-Jan van den Hazel
 ORFEUS Data Center: addressing Quality Control to obtain high quality seismic waveform data for research.
- 14:45–15:00 EGU2011-8460
Kent Anderson, Peter Davis, and Lind Gee
 The GSN Data Quality Initiative

SM1.3/G3.8/GD3.7/GI-19/TS8.7 – Improving seismic networks performances: from site selection to data integration (co-organized) – Posters

Convener: Damiano Pesaresi | Co-Conveners: John Clinton, Robert Busby

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY660 EGU2011-9484
Katrin Hafner, Robert W. Busby, and Robert Woodward
 EarthScope's Transportable Array: Current State of Evolution
- XY661 EGU2011-9581
Relu Burlacu and the UJSS Team
 Utah's Regional/Urban ANSS Seismic Network—Integrated Multifaceted Monitoring
- XY662 EGU2011-10145
Damiano Pesaresi, Pier Luigi Bragato, Angela Saraò, Paolo Di Bartolomeo, Milton Percy Plasencia Linares, and Giorgio Duri
 Improving the seismic monitoring of North-eastern Italy: the state of the art of the North-eastern Italy (NI) Seismic Network run by OGS
- XY663 EGU2011-12781
Luigi Abruzzese, Gianpaolo Cecere, Alberto Delladio, Giovanni De Luca, Alessandro Marchetti, Salvatore Mazza, and Franco Mele
 The INGV Mobile Telemetered Network (Re.Mo.Tel.): long-term monitoring analysis.
- XY664 EGU2011-11943
Vincenzo Cardinale, Angelo Castagnozzi, Gianpaolo Cecere, Ciriaco D'Ambrosio, Luigi Falco, Antonino Memmolo, Felice Minichiello, and Luigi Zarrilli
 A new integrated seismic and GPS mobile network - (test site:)
- XY665 EGU2011-6586
 Liliya Dimitrova, **Dimcho Solakov**, Svetlana Nikolova, Stoyan Stoyanov, Stela Simeonova, Leonid Zimakov, and Leonid Khaikin
 Bulgarian seismological network
- XY666 EGU2011-13566
Can Zülfikar, Hakan Alcik, Aydin Mert, and Mustafa Erdik
 The Strong Motion Networks in Istanbul Metropolitan
- XY667 EGU2011-10705
Eser Cakti, Murat Bikce, Oguz Ozel, Cemal Genes, Selcuk Kacin, and Yavuz Kaya
 Antakya basin strong ground motion network
- XY668 EGU2011-9488
Reda Abdel-Fattah, Abdullah Al-Enezi, Farah Al-Jerri, Sheikh Abdul Majeed Ahmad, and Leonid Zimakov
 Kuwait National Seismic Network: Performance and Future Expansion

- XY669 EGU2011-6927
Ludger Kueperkoch, Thomas Meier, Andrea Bruestle, Jimin Lee, Wolfgang Friederich, and The Egelados Working Group
 Automated P- and S-phase arrival time estimation at local and regional distances
- XY670 EGU2011-6950
Maria-Theresia Apoloner, Ewald Brückl, Johanna Brückl, Walter Loderer, Stefan Mertl, and Bernd Schurr
 Location performance of the ALPAACT seismic network
- XY671 EGU2011-8733
Giovanni Romeo
 Whales watching
- XY672 EGU2011-9645
Juan Reyes, Gert-Jan van den Hazel, Frank Vernon, and Robert Newman
 Moment Tensor code for the Antelope Environmental Monitoring System
- XY673 EGU2011-6249
Jörn Groos and Joachim Ritter
 Evaluation of the seismic noise conditions by statistical time series classification for site selection in densely-populated areas
- XY674 EGU2011-13605
 Eser Cakti, **Ebru Harmandar**, and Erdal Safak
 Wave propagation in downtown Istanbul deduced from earthquake records
- XY675 EGU2011-3801
Juan Reyes, Robert Newman, Frank Vernon, and Jamison Steidl
 Web-based display and interaction with high density waveform data recorded by seismic networks as a tool for network diagnostics: the Waveform Server
- XY676 EGU2011-13441
 Gert-Jan van den Hazel, **Reinoud Sleeman**, Torild van Eck, Luca Trani, and Alessandro Spinuso
 Data and related products available at the Orfeus Data Center - the how and what
- XY677 EGU2011-6264
 Jan Michálek, **Jana Doubravová**, and Stefan Mertl
 Usage of SEISMON within the WEBNET seismic network
- XY678 EGU2011-11615
Ruben Luis, Jens Havskov, Lars Ottemöller, Peter Voss, and Teresa Ferreira
 Integrated Access to miniSEED Archives Using SEISAN Earthquake Analysis Software
- XY679 EGU2011-6190
Felix Borleanu, Mihaela Popa, Mircea Radulian, and Shirley Baher
 Calibration of BURAR (Romania) seismic array to estimate location and magnitude for the events occurred in the East and Southeast part of the array

GD4.2/TS5.7 – Evolution of the North and South Atlantic, adjacent continents, and passive continental margins in general (co-organized) – Posters

Conveners: Ulrich Anton Glasmacher, Peter Japsen, Dominique Chardon | Co-Conveners: Anicet Beauvais, Johan M. Bonow, Hans-Peter Bunge, Peter R. Cobbold, Ana Franco-Magalhaes, François Guillocheau, Peter C. Hackspacher, Per Terje Osmundsen, Martyn Stoker, Magdalena Scheck-Wenderoth, Robert B. Trumbull, Nicky White

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- A18 EGU2011-1461
Victor Sacek and Jean Braun
 A flexural explanation for passive margin escarpment migration
- A19 EGU2011-3350
Delphine Rouby, Francois Deschamps, Jean Braun, and Olivier Dauteuil
 Vertical movement of transform passive margins: interactions in 3D between surface transfer, flexural isostasy and thermal subsidence
- A20 EGU2011-6842
Peter Japsen, Johan M. Bonow, Paul F. Green, James A. Chalmers, and Troels F. Nielsen
 East Greenland: A classic example of an elevated, passive continental margin shaped long after rifting and breakup
- A21 EGU2011-9193
Johan M. Bonow, Peter Japsen, and Paul F. Green
 Elevated peneplains truncating Palaeogene basalts as evidence of post-rift erosion and uplift in East Greenland

- A22 EGU2011-13298
Sergei Medvedev, **Ebbe Hartz**, and Alban Souche
Influence of ice sheet, the Iceland hotspot, glacial erosion, and sediment transport on Greenland's passive margins
- A23 EGU2011-10545
Nina Doerr, Frank Lisker, Peter D. Clift, Andrew Carter, Andreas Schlegel, Karsten Schubert, David Gee, Alexander Tebenkov, Malte Jochmann, and Cornelia Spiegel
Erosion history of Svalbard: evidence from low-temperature thermochronology, vitrinite reflectance and clay mineralogy
- A24 EGU2011-9143
Per Terje Osmundsen, Thomas Redfield, and Jörg Ebbing
Extensional faulting, crustal taper and the long-term topography of the Scandinavian passive margin
- A25 EGU2011-11839
Peter Japsen, Paul F. Green, Johan M. Bonow, Erik S. Rasmussen, James A. Chalmers, and Tomas Kjennerud
Episodic uplift and exhumation along North Atlantic passive margins
- A26 EGU2011-9418
Anne-Claire Chaboureaud, Cécile Robin, François Guillocheau, Sébastien Rohais, Daniel Aslanian, and Maryline Moulin
Palaeogeography of the Central segment during the South Atlantic opening
- A27 EGU2011-1920
Naomi Ussami, Carlos A. M. Chaves, Leila S. Marques, and Márcia Ernesto
The origin of the Rio Grande Rise-Walvis Ridge (South Atlantic) revisited integrating paleogeographic reconstruction, elemental and isotope geochemistry and flexural modeling
- A28 EGU2011-12158
Boris Belyatsky, Anton Antonov, Robert Krymsky, Elena Lepekhina, Natalia Migdisova, and Nadezhda Sushchevskaya
Isotope-geochemical features of tholeiites from the Spiess Ridge (South Atlantic)
- A29 EGU2011-12869
Natasha Stanton, Cosme Neto, and Mauro Cesar Geraldies
Gravity and magnetic anomalies on the Trindade Island and Vitoria-Trindade Chain: implications for the lithospheric thinning and tectonic evolution of the Brazilian Plattform
- A30 EGU2011-3546
Bernd Schreckenberger, Dieter Franke, Hannes Koopmann, Michael Schnabel, and Kai Berglar
Rift-to-drift transition at the South African volcanic margin and comparison with conjugated structures off Argentina
- A31 EGU2011-6509
Daniel Koehn, Cees Passchier, and Ulrich Glasmacher
Tectonic evolution of the South Atlantic passive continental margin based on onshore structural data.
- A32 EGU2011-6810
Hartwig Frimmel, Miguel Basei, Claudio Gaucher, and Hans-Peter Bunge
Pre-rift lithospheric anisotropies in the Gondwana crust on either side of the South Atlantic
- A33 EGU2011-6855
Lorenzo Colli, Andreas Fichtner, and Hans-Peter Bunge
Full waveform tomography of the South Atlantic upper mantle
- A34 EGU2011-11768
Anne-Claire Chaboureaud, Yannick Donnadieu, Cécile Robin, François Guillocheau, and Sébastien Rohais
Impact of the South Atlantic opening on global and regional climate during Aptian and Albian times
- A35 EGU2011-4012
Damien Delvaux, Etienne Kadima, Ralf Litke, Viktoria Sachse, Ulrich Glasmacher, Friederik Bauer, and Stanislas Sebagenzi
Late Cretaceous subsidence and tectonic inversion in the Congo Basin from paleostress, organic matter maturation and thermochronometric studies of archived core and outcrop samples
- A36 EGU2011-4172
François Guillocheau, Bastien Linol, Marteen de Wit, François Mvondo, Dominique Chardon, and Luc Tack
Palaeosurfaces, incision and long wavelength deformation of the Congo Cuvette during Cenozoic times
- A37 EGU2011-3881
Nathan Downey, Mike Gurnis, and **Jean-Philippe Avouac**
Subsidence history and geodynamic evolution of the cratonic Congo basin
- A38 EGU2011-2240
Friederike U. Bauer, Jens Baumgaertner, Ulrich A. Glasmacher, Uwe Ring, Markus Karl, Andreas Schumann, and Betty Nagudi
Long-term landscape evolution of the Rwenzori Mts (Albertine Rift, Uganda) traced by thermal modelling
- A39 EGU2011-5659
Cecile Robin, Francois Guillocheau, Samuel Jeanne, Florent Porcher, and Gerome Calves
Cenozoic siliciclastic fluxes evolution around Africa

- A40 EGU2011-4308
Jean-Louis Grimaud, Dominique Chardon, Beauvais Anicet, and Christophoul Frédéric
Cenozoic drainage evolution of West Africa: Spatial and temporal constraints from the lateritic record
- A41 EGU2011-7227
Anicet Beauvais and Dominique Chardon
Evolving topography and denudation frame of West Africa over the Cenozoic
- A42 EGU2011-5583
Yuriy P. Maystrenko, Magdalena Scheck-Wenderoth, Alexander Hartwig, Zahie Anka, Antony B. Watts, and Katja K. Hirsch
3D structural model of the West African continental margin
- A43 EGU2011-7607
Volker Leinweber, Wilfried Jokat, and Frauke Klingelhofer
Results of recent investigations of the conjugate margins in the Africa-Antarctica Corridor
- A44 EGU2011-4511
Carmen Gaina, Cinthia Labails, and Colin Reeves
The Early opening of the Indian Ocean: An African Perspective
- A45 EGU2011-213
Sylvain Rougier, Yves Missenard, Hermann Zeyen, Jocelyn Barbarand, and Cécile Gautheron
Meso-Cenozoic vertical movements of the Tuareg Shield, Algerian Sahara
- A46 EGU2011-5289
Nicolas Flament, Michael Gurnis, and Dietmar Müller
The influence of mantle convection on the evolution of South American topography during the Miocene
- A47 EGU2011-4153
Luis Gustavo Ferreira Viegas and Carlos José Archanjo
Syntectonic magma emplacement and crustal flow at different levels in the middle crust: the case of the Patos-Seridó shear zone system (Borborema Province, NE Brazil)
- A48 EGU2011-14207
Peter Japsen, Paul F. Green, Peter R. Cobbold, Lucy G. Sant'Anna, and Johan M. Bonow
Cenozoic burial and exhumation of the interior highlands of Brazil: Palaeo-thermal evidence from the Eocene Fonseca Formation, Minas Gerais
- A49 EGU2011-335
Jaqueline de Souza Silva, Ulrich Anton Glasmacher, Peter Christian Hackspacher, Danny Stoeckli, Markus Karl, and Manuel Sehr
The Poços de Caldas alkaline massif, a key to understand thermal, exhumation, rock and surface uplift history at the "passive
- A50 EGU2011-13835
Peter C. Hackspacher, Marli C. Siqueira-Ribeiro, Matheus Cuglieri, Ana O.B. Franco-Magalhaes, and Bento Conceição
Is the Eocene-Miocene stretching a regional or local Phenomon on both sides of the South Atlantic Margins? - Low Temperature Thermochronology in SE Brasil and Angola
- A51 EGU2011-272
Markus Karl, **Ulrich A. Glasmacher**, Peter C. Hackspacher, and Ana O. B. Franco-Magalhaes
The South Atlantic passive continental margin evolution in Brazil and Southern Africa derived from published AFT ages
- A52 EGU2011-11328
Claudio Riccomini and Carlos Tomba
Stress fields and emplacement of dike swarms during Early Cretaceous rifting in Southern Brazil
- A53 EGU2011-336
Sebastian Kollenz, Ulrich A. Glasmacher, Ricardo Pereyra, and Eduardo A. Rosello
Thermal history, exhumation, uplift, and long-term landscape evolution of the South Atlantic passive continental margin in eastern Argentina
- A54 EGU2011-493
Vinícius Tieppo Meira, Mario da Costa Campos Neto, Pablo Diego González, Miguel Ângelo Stipp Basei, and Ricardo Varela
Structural evolution of Sierra de Umango, Western Sierras Pampeanas, Northwestern Argentina: the polyphase tectonic history of the proto-Andean margin of Gondwana
- A55 EGU2011-4775
Flora Boekhout, Richard Spikings, Thierry Sempere, Alexey Ulianov, and Urs Schaltegger
New geochronological constraints on the Late Paleozoic to Jurassic of coastal southern Peru
- A56 EGU2011-4668
Sophie Demouy, Michel De Saint-Blanquat, Thierry Sempéré, Mathieu Benoit, Sonia Rousse, and Jean-Louis Paquette
Late Cretaceous rapid arc growth in the Arequipa area of southern Peru : the birth of the Andes?

- A57 EGU2011-2650
Ryan Cochran, Richard Spikings, Wilfried Winkler, Alexey Ulianov, and Massimo Chiaradia
 Triassic to Early Cretaceous tectonic evolution of Ecuador: insights from U-Pb LA-ICP-MS geochronology, geochemistry and provenance studies
- A58 EGU2011-7138
Richard Spikings and Diego Villagomez
 Rock uplift and exhumation of continental crust in response to the collision of heterogeneous oceanic crust, examples from the northern, central and southern Andes
- A59 EGU2011-2601
Roelant van der Lelij, Richard Spikings, Alexey Ulianov, and Massimo Chiaradia
 From the Rheic Ocean to the Proto-Caribbean Sea in Venezuela: 300 Million Years of Magmatism in the Northern Andes

GD5.1/GMPV41/SM4.5/TS6.9 – Subduction zone dynamics from the surface to the lower mantle (co-organized) – Orals

Convenor: Susanne Buitert | Co-Convenors: Francesca Funicello, Jeroen van Hunen, Marina Manea, Yildirim Dilek, Vlad Constantin Manea, Yujiro Ogawa

Room: 30

Chairperson: n.n.

- 08:30–08:45 EGU2011-6189
Jeroen van Hunen
 Did flat subduction occur in the early Earth?
- 08:45–09:00 EGU2011-7050
Vlad Constantin Manea, Marta Perez-Gussinye, and Marina Manea
 Overriding plate thickness, trench dynamics and flat-slab subduction
- 09:00–09:15 EGU2011-5413
Steven Skinner and Robert Clayton
 Flat Slabs in Time and Space
- 09:15–09:30 EGU2011-5149
Luca Ferrari and Maria Teresa Orozco Esquivel
 Evolution of Flat Subduction in the Central Trans-Mexican Volcanic Belt
- 09:30–09:45 EGU2011-9703
Tomoaki Morishita, Kenichiro Tani, and Yildirim Dilek
 Melt composition variations in subduction initiation magmatism: constraints from the peridotites of the Izu-Bonin-Mariana forearc and the Eastern Mirdita ophiolite (Albania)
- 09:45–10:00 EGU2011-2919
Daniela Hunziker, Jean-Pierre Burg, Pierre Bouilhol, Sergej Sergeev, and Jafar Omrani
 Trace element and SHRIMP data from the Remeshk-Mokhtaramabad and Fannuj-Maskutan ophiolites: Evidence for Late Jurassic subduction in N-Makran, SE Iran

COFFEE BREAK

Chairperson: n.n.

- 10:30–10:45 EGU2011-8687
Diane Arcay, Serge Lallemand, and Arnaud Heuret
 Dynamics of subduction interplate: Influence of lithosphere-asthenosphere interaction in the vicinity of the volcanic arc and possible relations to the interface seismogenic behavior
- 10:45–11:00 EGU2011-1673
Alexey Shulgin, Heidrun Kopp, Dirk Klaeschen, Frederik Tilmann, Ernst Flueh, Dieter Franke, and Yusuf Djajadihardja
 Subduction offshore Northern Sumatra: crustal structure and earthquake ruptures segmentation.
- 11:00–11:15 EGU2011-6609
Teodoro Cassola
 Mechanics of formation and evolution of Forearc basins
- 11:15–11:30 EGU2011-8231
Joya Tetreault and Susanne Buitert
 Sinkers and floaters: Modern analogues of allochthonous accreted terranes
- 11:30–11:45 EGU2011-11929
Daniele Regis, Martin Engi, Daniela Rubatto, James Darling, and Michele Zucali
 Constraints on scales and rates of tectonic mobility within continental collision zones: Case study from the Sesia Zone (Western Alps, NW-Italy)

- 11:45–12:00 EGU2011-1340
Michiel Gademán, Jaap Verbaas, Herman van Roermund, and Matthijs Hogerwerf
 Evidence for a Finnmarkian (~500Ma) continental collision/subduction zone in the Central Belt of the Seve Nappe Complex, northern Jämtland-southern Västerbotten, Sweden; Constraints from chemical EMP monazite ages and orogenic mantle wedge garnet peridotite

LUNCH BREAK

Chairperson: n.n.

- 13:30–13:45 EGU2011-7727
Muriel Gerbault
 Lithospheric scale rheological properties associated to the normal and flat slab domains along the Chilean Andes, insight from numerical models
- 13:45–14:00 EGU2011-13039
Jeffrey Ryan and Ivan Savov
 Globally Consistent Recognition of Slab-Derived Components in Volcanic Arcs, with Distinctions Based on Subduction-Zone Thermal Structures
- 14:00–14:15 EGU2011-1806
Stéphane Rondenay, Laurent Montési, and Geoffrey Abers
 A model for the formation of volcanic gaps by slab advance
- 14:15–14:30 EGU2011-7587
Alik Ismail-Zadeh, Satoru Honda, Igor Tsepelev, and Alex Korotkii
 Inverse retrospective thermo-mechanical modeling of lithosphere subduction
- 14:30–14:45 EGU2011-2774
Benjamin Guillaume, Monica Moroni, Francesca Funiciello, Claudio Faccenna, and Joseph Martinod
 Subduction-induced mantle flow and dynamic uplift around the Patagonian slab window: insights from laboratory models
- 14:45–15:00 EGU2011-5007
Claudio Faccenna, Thorsten W. Becker, Serge Lallemand, Yves Lagabriele, Francesca Funiciello, and Claudia Piromallo
 Subduction-triggered magmatic pulses: A new class of plumes?

Chairperson: n.n.

- 15:30–15:45 EGU2011-4720
Stefan Markus Schmalholz
 A simple analytical solution for slab detachment
- 15:45–16:00 EGU2011-2744
Zhonghai Li and Neil Ribe
 Scaling Laws for Free Subduction From 3D Boundary-Element Numerical Simulations
- 16:00–16:15 EGU2011-12447
Javier Quinteros and Stephan V. Sobolev
 Viscosity in transition zone and shallow lower mantle - Insight from numerical models of subduction
- 16:15–16:30 EGU2011-6769
Hana Cizkova and Arie van den Berg
 Subducted material at the bottom of the mantle
- 16:30–16:45 EGU2011-3113
Bernhard Steinberger, Trond H. Torsvik, and Thorsten Becker
 Subduction to the lower mantle: A comparison between geodynamic and tomographic models
- 16:45–17:00 EGU2011-8435
Patrizio Petricca and Eugenio Carminati
 State of stress in slabs as a function of large-scale plate kinematics: an approach with 2D and 3D numerical models

SM3.2/GD6.4/TS10.7 – Seismic Imaging of the Earth's Interior: Results of active and passive tomography on local, regional and global scales. (co-organized) – Orals

Convener: Andrea Morelli | Co-Conveners: Dapeng Zhao, Ivan Koulakov

Room: 27

Chairperson: Ivan Koulakov

- 10:30–10:45 EGU2011-4961
Cédric Legendre, Thomas Meier, Sergei Lebedev, Wolfgang Friederich, and the EGELADOS working group
 Shear-wave velocity model of the European Upper Mantle
- 10:45–11:00 EGU2011-8642
Michael Wagner, Edi Kissling, Stephan Husen, and Domenico Giardini
 Combining controlled-source seismology and local earthquake data to derive a consistent three-dimensional model of the crust: Application to the Alpine region
- 11:00–11:15 EGU2011-5006
Yong Ren, Graham Stuart, Gregory Houseman, Ben Dando, Constantin Ionescu, Endre Hegedüs, Slavica Radovanovi?, and South Carpathian Project Working Group
 Upper Mantle structure of the Pannonian-Carpathian region derived from Finite-Frequency Tomography
- 11:15–11:30 EGU2011-2402
Jaroslava Plomerova, Ludek Vecsey, Vladislav Babuska, and Hana Karousova
 Seismic anisotropy imprint on upper mantle velocity structure beneath the north-eastern Bohemian Massif (central Europe)
- 11:30–11:45 EGU2011-12941
Tea Mumladze and Yih-Min Wu
 Lithospheric Structure of Caucasus Using Joint Inversion Method
- 11:45–12:00 EGU2011-6126
Andreas Köhler, Christian Weidle, and Valerie Maupin
 Surface wave tomography for southern Norway from ambient seismic noise and earthquake analysis
- 12:00–12:15 EGU2011-6262
Ward Stolk, Mikhail Kaban, Magdala Tesauero, Fred Beekman, and Sierd Cloetingh
 New Moho estimate and velocity model for Asia

LUNCH BREAK

Chairperson: Andrea Morelli

- 13:30–13:45 EGU2011-3427
 Xiaomei Zhang and **Hanneke Paulssen**
 Geodynamics of the Gulf of California from surface wave tomography
- 13:45–14:00 EGU2011-2785
Nicholas Rawlinson, Hrvoje Tkalcic, Sara Pozgay, and Elizabeth Vanacore
 Seismic imaging results from a transportable array experiment in southeast Australia
- 14:00–14:15 EGU2011-11651
Andrew Schaeffer and Sergei Lebedev
 Seismic velocity and anisotropy of the upper mantle and transition zone at global and regional scales imaged using Surface and S waveform tomography
- 14:15–14:30 EGU2011-7571
Genyang Tang, Penny Barton, Simon Dean, Frederik Tilmann, Muhammad Jusuf, Timothy Henstock, Frauke Klingelhofer, Yusuf Djajadihardja, Lisa McNeill, and Haryadi Permana
 3-D seismic tomography study of the Sumatra subduction zone near Simeulue island
- 14:30–14:45 EGU2011-6108
Andri Dian Nugraha, Sri Widiyantoro, Awan Gunawan, and Gede Suantika
 Seismic Tomography Imaging around Guntur Volcano in Indonesia
- 14:45–15:00 EGU2011-2344
Ivan Koulakov, Evgeniy Gordeev, Sergey Senyukov, Valeriy Vernikovskiy, Nikolay Dobretsov, Kayrly Jaxybulatov, and Andrey Jakovlev
 4D tomography images reveal migration of magma chambers beneath Kluchevskoy volcano (Kamchatka)

SM3.2/GD6.4/TS10.7 – Seismic Imaging of the Earth's Interior: Results of active and passive tomography on local, regional and global scales. (co-organized) – Posters

Convener: Andrea Morelli | Co-Conveners: Dapeng Zhao, Ivan Koulakov

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Dapeng Zhao

- XY710 EGU2011-1581
zeinab jeddi and mohammad tatar
 P-phase Arrival Time Local Earthquake Tomography in BAM Region

- XY711 EGU2011-2775
Samar Amini and Hossein Shomali
New Constraints on Pn-Velocity Structure of the Iranian Plateau
- XY712 EGU2011-4534
Najmieh Mohammadi, Ahmad Sadidkhouy, and Forough Sodoudi
Variation of the Moho depth along the Shooshtar-Damavad profile (Iran) using P receiver functions
- XY713 EGU2011-4554
Tayyebi Akbari and Hossein Shomali
Upper crust velocity anomaly resolved using local travel-time tomography, in the Central Alborz, Iran
- XY714 EGU2011-3004
Seda Yolsal-Cevikbilen, C.Berk Biryol, Susan Beck, George Zandt, Tuncay Taymaz, Hande E. Adiyaman, and A.Arda Ozacar
3-D Crustal Structure along the North Anatolian Fault Zone in North Central Anatolia from local earthquake tomography
- XY715 EGU2011-11905
Berna Tunç, Deniz Çaka, Süleyman Tunç, Heiko Woith, ?erif Bar??, Birger-Gottfried Lühr, Mithat F?rat Özer, Tahir Serkan Irmak, and Erwin Günther
Three Dimensional Velocity Structure of the Armutlu Peninsula
- XY716 EGU2011-10939
Hayrullah Karabulut and Ahu Komec Mutlu
Anisotropic Pn Tomography of Turkey and Surrounding regions
- XY717 EGU2011-2404
Hana Karousova, Jaroslava Plomerova, and Ludek Vecsey
Velocity structure of the upper mantle beneath the north-eastern Bohemian Massif (central Europe)
- XY718 EGU2011-6131
Bogdan Zaharia, Eugen Oros, Greg Houseman, Graham Stuart, Mihaela Popa, and Mircea Radulian
Understanding lithospheric structure from local seismic tomography in western Romania
- XY719 EGU2011-7122
Sonja Greve and Hanneke Paulssen
Upper mantle heterogeneity and depth-dependent anisotropy in the Central Mediterranean subduction zone
- XY720 EGU2011-8096
Stephen Monna and Tiziana Sgroi
Crustal 3D tomography of the Southern Tyrrhenian Sea: new constraints using passive seismic data from OBS and land stations
- XY721 EGU2011-8501
Paola Baccheschi, **Pasquale De Gori**, and Claudio Chiarabba
Seismic attenuation tomography beneath the retreating Southern Tyrrhenian Sea subduction system
- XY722 EGU2011-9305
Emanuela Matrullo, Ortensia Amoroso, Raffaella De Matteis, Claudio Satriano, and Aldo Zollo
1D versus 3D velocity models for earthquake locations: a case study in Campania-Lucania region (Southern Italy)
- XY723 EGU2011-1361
Edoardo Del Pezzo, Francesca Bianco, and Luca De Siena
A scattering Image of Campi Flegrei from the Auto Correlation Functions of Velocity tomograms
- XY724 EGU2011-9968
Hanna Silvennoinen, Elena Kozlovskaya, Eduard Kissling, Tomasz Janik and the POLENET/LAPNET working group Team
Compilation of initial 3-D crustal model northern Fennoscandian shield
- XY725 EGU2011-11711
Tellervo Hyvönen, Timo Tiira, Annakaisa Korja, and Kari Komminaho
Crustal Structure of the central Baltic Shield highlighted by Seismic Tomography and Anisotropy Studies
- XY726 EGU2011-8675
Louis De Barros, Francesca Martini, Christopher J. Bean, Araceli García Yeguas, and Jesus M. Ibáñez
Magmatic storage below Teide volcano from reflected and scattered seismic waves
- XY727 EGU2011-5262
Shuhei Hada, Junichi Nakajima, Naoki Uchida, Erika Hayami, and Norihito Umino
Estimation of corner frequency of intraslab earthquakes and whole ray path attenuation term beneath NE Japan
- XY728 EGU2011-313
Ekaterina Kukarina and Ivan Koulakov
Two scales of tomographic inversions in Hokkaido (Japan) reveals the link between the volcanic areas and flows in the mantle wedge
- XY729 EGU2011-787
David P. Sahara, Sri Widiyantoro, Andri D. Nugraha, Rachmat Sule, and Birger G. Luehr
Determination of Subsurface Velocity Structure and Precise Hypocenters Relocation by using Double-Difference Technique: Case Study of Central Java - Indonesia

- XY730 EGU2011-339
Jaxybulatov Kairly and Koulakov Ivan
 Shape of the subducted slab beneath the Sunda arc derived from regional tomographic inversion
- XY731 EGU2011-2466
Andrey Jakovlev, Georg Ruempker, and Ivan Koulakov
 Multi Scale Imaging of Seismic Structure beneath the Western Branch of the East-African Rift
- XY732 EGU2011-316
Irina Zabelina and Ivan Koulakov
 Block structure of San-Francisco zone from the local earthquake tomography
- XY733 EGU2011-6255
 Michelle Salmon, Brian Kennett, and **Erdinc Saygin**
 AuSREM - Australian Seismological Reference Earth Model
- XY734 EGU2011-1178
Heeok Jung, Yong-seok Jang, and Bong Gon Jo
 Upper crust shear wave tomography of South Korea estimated by explosion and earthquake data

SM3.4/TS1.7 – Noise Interferometry: What can we learn from noise ? (co-listed) – Posters

Convener: Antonio Villaseñor | Co-Conveners: Florent Brenguier, Laurent Stehly, Martin Schimmel

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY752 EGU2011-4320
 Erdinc Saygin and **Brian Kennett**
 The Crustal Structure of Australian Continent from Seismic Ambient Noise
- XY753 EGU2011-3467
Hanneke Paulssen, Tedi Yudistira, and Jeannot Trampert
 Rayleigh wave group velocity tomography of the Netherlands from ambient seismic noise
- XY754 EGU2011-7479
Bogdan Grecu, Yong Ren, Dragos Tataru, Cristian Neagoe, Graham Stuart, Greg Houseman, Mircea Radulian, and Victor Raileanu
 First results of seismic noise cross-correlations between Romanian permanent broadband network and temporary stations deployed in the western part of Romania
- XY755 EGU2011-12079
 Abigail Jiménez, Antonio García-Jerez, and **Francisco Luzón**
 Analysis of surface wave dispersion in Navarra (Northern Spain) from cross-correlation of ambient noise
- XY756 EGU2011-11993
 Antonio García-Jerez, **Francisco Luzón**, and Abigail Jiménez
 Inferring the Elastic properties of the Low Andarax River Valley (SE Spain) by Means of Array Analysis of Ambient Noise
- XY757 EGU2011-5853
Antonio Villaseñor, Beatriz Gaite, Josep Gallart, and Topo-Iberia Seismic Working Group
 Ambient noise tomography of the Iberian Peninsula using the IberArray seismic network
- XY758 EGU2011-9501
 Fabrice Ardhuin, **Romain Husson**, Eleonore Stutzmann, Abel Balanche, Fabrice Collard, and Martin Schimmel
 Seismic noise related to swells across the Pacific: a joint analysis of satellite, buoy, and seismometer data
- XY759 EGU2011-2846
young soo Jeon, hye seon Kang, seok tae Lee, sun-cheon Park, young-kyun Lee, won young Yun, min kyung Kong, and eun hee Park
 KMA seismic stations assessment using portable seismometers
- XY760 EGU2011-7085
Gregor Hillers, Michel Campillo, Yen-Yu Lin, and Kuo-Fong Ma
 Analysis of the high-frequency noise field recorded by a vertical borehole array in Taiwan 1: General properties, and the direct arrival of the ambient noise cross correlation
- XY761 EGU2011-7140
Gregor Hillers, Michel Campillo, Yen-Yu Lin, and Kuo-Fong Ma
 Analysis of the high-frequency noise field recorded by a vertical borehole array in Taiwan 2: Probing subsurface properties using the coda of ambient noise cross correlation
- XY762 EGU2011-10357
Arantza Ugalde, Beatriz Gaite, David Martí, Sofía Casquero, Antonio Villaseñor, and Ramón Carbonell
 Monitoring seismic velocity variations at a experimental CO₂ geological storage site in Hontomín (northern Spain)

- XY763 EGU2011-9538
Céline Hadziioannou, Eric Larose, Yosuke Aoki, Tetsuya Takeda, and Michel Campillo
Ambient seismic noise monitoring in Chuetsu, Japan and the area affected by wave speed variations
- XY764 EGU2011-11777
Luca Trani, Alessandro Spinuso, Michelle Galea, and Ian Main
A novel automated approach to ambient noise data processing using the ADMIRE framework
- XY765 EGU2011-7193
Adnand Bitri, Kévin Samyn, and Gilles Grandjean
Seismic surface-wave interferometry using cross-correlation and deconvolution methods
- XY766 EGU2011-2503
Laurent Stehly, Paul Cupillard, and Barbara Romanowicz
Computing green functions by simulating seismic noise using the Spectral Element Method
- XY767 EGU2011-6153
Jörn Groos, Sascha Bussat, and Joachim Ritter
The unwanted amplification of monochromatic signals in seismic noise cross-correlation functions by spectral whitening
- XY768 EGU2011-3918
Martin Schimmel, Eleonore Stutzmann, and Josep Gallart
Efficient Signal Extraction From Ambient Noise Data

Tuesday, 05 April

GD1.2/TS9.2 – Recent advances in modelling of tectonic processes (including Arne Richter Award for Outstanding Young Scientists Lecture) (co-organized) – Orals

Convener: Susanne Buiter | Co-Conveners: Marcin Dabrowski, Ernst Willingshofer, Yossi Mart, Guido Schreurs, Dave May, Frederic Gueydan, Dimitrios Sokoutis

Room: 22

Chairperson: n.n.

15:30–15:45 EGU2011-5529

Anne Davaille and Anna Massmeyer

Thermal plumes in complex fluids: constraints on lithosphere breakup

15:45–16:00 EGU2011-8542

Jean-Pierre Brun, Frederic Gueydan, and Melody Philippon

Layer-parallel shear during subduction and exhumation of HP-UHP metamorphic rocks units.

16:00–16:15 EGU2011-12694

Evgueni Burov and Benjamin Huet

Crust-mantle and intra-crustal decoupling: consequences for continental rift basin dynamics

16:15–16:30 EGU2011-4103

Taras Gerya

Wet decoupling defines regimes of terrestrial subduction: why and how?

16:30–17:00 EGU2011-9496

Boris Kaus

Insights into the physics of geological processes (Arne Richter Award for Outstanding Young Scientists Lecture)

GD1.2/TS9.2 – Recent advances in modelling of tectonic processes (including Arne Richter Award for Outstanding Young Scientists Lecture) (co-organized) – Posters

Convener: Susanne Buiter | Co-Conveners: Marcin Dabrowski, Ernst Willingshofer, Yossi Mart, Guido Schreurs, Dave May, Frederic Gueydan, Dimitrios Sokoutis

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Dave May and Marcin Dabrowski

A26 EGU2011-5799

Dhaou Akrouf, Peter R. Cobbold, Riadh Ahmadi, Eric Mercier, and Mabrouk Montacer

Physical models of base-salt detachments in thin-skinned thrust belts under fluid overpressure

A27 EGU2011-6549

Andrea Argnani, Cristian Cavozi, Baishali R. Chowdhury, Yago Nestola, Alessio Cappelletti, Francesca Salvi, Filippos Tsikalas, Stefano Dalla, and Marco Roveri

Analogue modelling of lithospheric-scale thinning and extension: Insights on magma-poor continental rifted margins

A28 EGU2011-8893

Adeline Pons and Yves Leroy

Conditions for the activation of splay faults in accretionary prisms: application to Nankai

A29 EGU2011-4114

Faramarz Nilfouroushan, Russell Pysklywec, and Alexander Cruden

Sensitivity analysis of numerical scaled models of fold-and-thrust belts to granular material cohesion variation and comparison with analogue experiments

A30 EGU2011-1318

Andrea Komoroczy, Steffen Abe, and Janos L. Urai

A new method for modeling of coupled brittle - ductile deformation

A31 EGU2011-10365

Marcin Dabrowski and Marek Jarosiński

Thick plate and finite element analysis of lithospheric scale folding

A32 EGU2011-6575

Luke Mondy, Patrice Rey, Leonardo Quevedo, and Aaron Tyler

Coupling Thermo-Mechanical Geodynamic Models with Synthetic Seismic Surveys

A33 EGU2011-6297

Thibault Duretz, Dave A. May, and Taras V. Gerya

Finite difference and Marker-in-Cell method: grid convergence and free surface stabilisation

- A34 EGU2011-7876
Paul Tackley
Optimising the finite-volume multigrid code StagYY for thousands of parallel cores
- A35 EGU2011-9471
Boris Kaus and Dave May
Geodynamic modelling using finite difference and finite element methods on massive parallel computers.
- A36 EGU2011-10833
Cedric Thieulot and Ritske Huismans
FANTOM3Dsp : coupling a thermo-mechanically coupled 3D creeping flow solver with a surface processes model
- A37 EGU2011-11584
Suranita Kanjilal, Guillaume Richard, and Harro Schmeling
Another 2D code for modeling of two-phase flow in geodynamics: Formulation and benchmark
- A38 EGU2011-12974
Yury Mishin, Taras Gerya, and Oleg Vasilyev
Adaptive multiresolution method for problems of computational geodynamics
- A39 EGU2011-11870
Diana Dymkova, Taras Gerya, Jean-Pierre Burg, and Shah Wali Faryad
Numerical modeling of the arc-continent collision
- A40 EGU2011-11947
Guizhi Zhu, Taras Gerya, Paul Tackley, and Eduard Kissling
Three-Dimensional Numerical Modeling of Crustal Growth at Active Continental Margins
- A41 EGU2011-10999
Elena Sizova, Taras Gerya, Michael Brown, and Leonid Perchuk
Evolution of Subduction/Collision Zones from Archean to Present: a Numerical Modelling Approach
- A42 EGU2011-9891
Ylona van Dinther, Taras V. Gerya, Fabio Corbi, Francesca Funiciello, Luis A. Dalguer, and P. Martin Mai
The long-term seismic cycle at a subduction thrust in geodynamic numerical simulations compared to analogue gelatin models
- A43 EGU2011-12267
Elvira Mulyukova, Marcin Dabrowski, Dani W. Schmid, and Trond H. Torsvik
Thermomechanical modelling of stability of Large Low Shear Velocity Provinces
- A44 EGU2011-10157
Thomas François, Evgueni Burov, Philippe Agard, and Bertrand Meyer
Stable cratons: what really matters?
- A45 EGU2011-2409
Vladislav Babuska, Jaroslava Plomerova, and Ludek Vecsey
Crust-mantle decoupling in the French Massif Central and the Bohemian Massif constrained by geologic and seismic anisotropy data
- A47 EGU2011-6942
Chang Liu, Bojing Zhu, and Yaolin Shi
Relationship between Earthquake Spatial Distribution and Tectonic Stress in North China Basin

G3.2/AS4.19/CL4.9/GD1.6/NH4.8/SM5.7 – Geodesy and natural and induced hazards: Progress during 30 years of the WEGENER initiative (co-organized) – Orals

Convener: Susanna Zerbini | Co-Conveners: Robert Reilinger, Mustapha Meghraoui

Room: 18

Chairperson: M. Meghraoui and P. Briole

- 08:30–08:45 EGU2011-12696
Andrew Hooper, David Bekaert, and Mahmut Arikan
Radar interferometry for measuring regional-scale processes
- 08:45–09:00 EGU2011-12096
Ziyadin Cakir, Mustapha Meghraoui, Esra Cetin, Ahmet Akoglu, and Samir Belabbès
Postseismic Hanging-wall Subsidence of the 2003 Zemmouri (Mw=6.9, Algeria) Thrust Earthquake From InSAR Time Series
- 09:00–09:15 EGU2011-11725
Jean-Mathieu Nocquet, Andrea Walpersdorf, François Jouanne, Frédéric Masson, Jean Chéry, and Philippe Vernant
Slow deformation in the Western Alps from a decade of Continuous GPS measurements
- 09:15–09:30 EGU2011-13090
Pierre Briole
Ground deformation monitoring in the Corinth rift laboratory, Greece

- 09:30–09:45 EGU2011-4840
Athanassios Ganas, Kostas Chousianitis, George Drakatos, Marios Papanikolaou, Panagiotis Argyrakis, Maria Kolligri, Panagiota Petrou, Evagelia Batsi, and Christina Tsimi
 NOANET: High-rate GPS Network for Seismology and Geodynamics In Greece
- 09:45–10:00 EGU2011-2324
Ugur Dogan, Semih Ergintav, Baki Karaboce, Gokhan Arslan, Ayse Selendi (1), Deniz Oz, Cuneyt Aydin (1), Azer Ilgar, Rahsan Cakmak (2), Alpay Belgen, Enver Sadkoglu, Eyup Bilgic, and Ahmet Direnc
 Long-term Crustal Deformations Based on Gravity and GPS Measurements (2006 - 2010) in Marmara Region, Turkey

COFFEE BREAK

Chairperson: R. Reilinger and A. Hooper

- 10:30–10:45 EGU2011-11359
Philippe Vernant
 Interseismic strain across strike slip faults, what can we learn from ~20 years of GPS measurements ?
- 10:45–11:00 EGU2011-11222
Cecilia Sciarretta, Vincenza Luceri, Roberto Lanotte, Rosa Pacione, Brigida Pace, and Giuseppe Bianco
 Velocity field in Mediterranean area from ASI-CGS GPS, SLR and VLBI solutions: the ASIMed solution
- 11:00–11:15 EGU2011-3512
Roberto Sabadini, Gabriele Cambiotti, and Yanick Ricard
 New insights on Mantle Convection and Ice Age True Polar Wander
- 11:15–11:30 EGU2011-8013
Johannes Boehm, Peter Steigenberger, Robert Heinkelmann, and Harald Schuh
 Troposphere delay modeling in VLBI and GNSS analysis
- 11:30–11:45 EGU2011-6503
Luce Fleitout, Jean-Didier Garau, Georges Cailletaud, Christophe Vigny, Wim Simons, Boujewin Ambrosius, Itthi Trisirisatayawong, and Chalermchon Satirapod
 Modeling the post-seismic deformations of the Aceh, Nias and Benkulu earthquakes
- 11:45–12:00 EGU2011-9723
Tonie van Dam, Xavier Collilieux, Zuheir Altamimi, and James Ray
 A review of GPS and GRACE estimates of surface mass loading effects

G3.2/AS4.19/CL4.9/GD1.6/NH4.8/SM5.7 – Geodesy and natural and induced hazards: Progress during 30 years of the WEGENER initiative (co-organized) – Posters

Convener: Susanna Zerbini | Co-Conveners: Robert Reilinger, Mustapha Meghraoui

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: M. Becker, L. Bastos, M.E. Aksoi and R. Fernandes

- XL184 EGU2011-1743
Hiroshi Fujimoto, Motoyuki Kido, and Yukihito Osada
 Some improvements in the GPS/Acoustic seafloor positioning
- XL185 EGU2011-2283
Simone Dellagnello and the SCF (INFN-LNF) Team
 SCF-Test of LAGEOS and the GNSS for geodesy and navigation applications
- XL186 EGU2011-2540
Vadim Milyukov, Vladimir Zharov, Alexey Mironov, Mark Kaufman, and Dmitry Duev
 Development of the Northern Caucasus GPS/GLONASS network: progress during 18 years (observations and results)
- XL187 EGU2011-2818
Yusaku Ohta, Tatsuya Kobayashi, and Satoshi Miura
 Long term stabilities and its noise properties of the middle to long baseline RTK-GPS time series for the earthquake size rapid determination
- XL188 EGU2011-3180
 Tim Wright, Hua Wang, **Carolina Pagli**, and Matthew Garthwaite
 Mapping Tectonic Strain on a Global Scale with InSAR
- XL189 EGU2011-8862
M Meghan Miller
 UNAVCO Event response capabilities: Four 2010 earthquakes that advanced hazards science

- XL190 EGU2011-11370
Graham Appleby, Georg Kirchner, Jan McGarry, Carey Noll, Erricos Pavlis, and Michael Pearlman
High Quality Products from Satellite Laser Ranging
- XL191 EGU2011-11708
Luisa Bastos, Machiel Bos, and Rui M.S Fernandes
An investigation of monument stability of GPS stations in Iberia
- XL192 EGU2011-13026
Machiel Bos, Odair Tavares, **Luisa Bastos**, and Rui Fernandes
An online GPS time-series analysis provider at GEODAC
- XL193 EGU2011-227
Haluk Ozener, Asli Dogru, and Bulent Turgut
Contemporary Results of GPS Observations in Ismetpasa Creeping Region of North Anatolian Fault Zone (NAFZ), Turkey
- XL194 EGU2011-365
Radia Mir, Salem Kahlouche, and Said Touam
Crustal deformations using GPS data and the Kalman filter: preliminary results
- XL195 EGU2011-1378
Susanna Zerbini, Claudio Prati, Giovanni Cappello, Maddalena Errico, Fabrizio Novali, and Silvia Scirpoli
Combination of INSAR and GPS to measure ground motions and atmospheric signals
- XL196 EGU2011-2707
M. Ersen Aksoy, Mustapha Meghraoui, Matthieu Ferry, Ziyadin Çakır, and Gülsen Uçarku?
Short-term and long-term slip rate estimations along the Ganos Fault using stream offsets and paleo-climatic changes (North Anatolian Fault, Turkey)
- XL197 EGU2011-3962
Stathis C. Stiros, Fanis Moschas, Lujia Feng, and Andrew V. Newman
Constraints to the 2008 Patras (Greece) seismic fault: Evidence from historical triangulation and morphotectonic data.
- XL198 EGU2011-4785
Stefano Tinti, Alberto Armigliato, and Gianluca Pagnoni
The role of GPS observations in a Tsunami Early Warning System suitable for near-shore tsunami detection and forecast.
- XL199 EGU2011-5439
Kamil Eren, Turgut Uzel, Engin Gulal, Ibrahim Tiryakioglu, Ahmet Anil Dindar, and Haluk Yilmaz
Tectonic Studies in Turkey Using CORS-TR Observations
- XL200 EGU2011-5777
Marc-Andre Gutscher
Tectonics of the Gibraltar subduction and its relation to recent kinematics
- XL201 EGU2011-6742
Matthias Becker, **Mohamed Saleh**, Mohamed Rashwan, Sayed Mohamed Abd el-Monem, Salah Mahmoud, Hassan Khalil, Awad Omran, and Mostafa Yousef
Regional and local deformation analysis results from the Nile River Valley and its relation to seismicity
- XL202 EGU2011-7357
Mohamed Chlieh, Hernando Tavera, Jean-Mathieu Nocquet, Juan-Carlos Villegas, Hugo Perfettini, and Jean-Philippe Avouac
Interseismic Coupling maps in South America subduction zone as indicator of future large Megathrust Earthquakes
- XL203 EGU2011-8062
Joaquim Sousa, Luisa Bastos, Antonio Ruiz, Ramon Hanssen, and Andy Hooper
Terrain Deformation Monitoring in Granada Basin Area Using Persistent Scatterers Interferometry (PSI)
- XL204 EGU2011-9179
Yasser Mahmoud, Frederic Masson, Mustapha Meghraoui, Ziyadin Cakir, Abd elmotaleb Alchalbi, Hakan Yavasoglu, Onder Yönlü, Mohamed Daoud, Semih Ergintav, and Sedat Inan
GPS velocity field in SE Turkey and NW Syria derived from 2009 and 2010 measurements
- XL205 EGU2011-9721
Yüksel Altiner
Another view on the study of Earth's crust deformations applied in Adriatic plate
- XL206 EGU2011-12464
Aggeliki Marinou, Xanthos Papanikolaou, Dimitris Paradissis, Dimitris Anastasiou, Vangelis Zacharis, Panayiotis Tzavaras, Kalliopi Papazissi, and Christiana Mitsakaki
Estimating of tectonic velocities in the Ionian region.
- XL207 EGU2011-11998
Rui Fernandes, José Quembo, Jorge Miranda, and Damien Delvaux
Present-Day Kinematics of Mozambique derived from Episodic GPS data

- XL208 EGU2011-12149
Robert King, Simon McClusky, Philippe Vernant, Semih Ergintav, Galaktion Hahubia, Fakhraddin Kadirov, Samir Mammadov, Ruben Stepanyan, Tamara Guseva, and Vadim Milyukov
 New GPS velocity field for the Arabian-Eurasian collision zone
- XL209 EGU2011-12720
Demitris Anastasiou, Aggeliki Marinou, Xanthos Papanikolaou, Vangelis Zacharis, Demitris Paradissis, Kalliopi Papazissi, and Christiana Mitsakaki
 Deformation studies using GPS data for South Peloponnisos
- XL210 EGU2011-12775
Juan Carlos Villegas Lanza, Jean-Mathieu Nocquet, Hernando Tavera, Mohamed Chlieh, and Francis Bondoux
 A new GPS velocity field from Central Peru to northern Ecuador
- XL211 EGU2011-8122
Oliver Boyd, Yuehua Zeng, and Leonardo Ramirez-Guzman
 Modeling surface deformation in the New Madrid seismic zone
- XL212 EGU2011-9330
Tilo Schöne, Julia Illigner, Cornelia Zech, Cecep Subarya, Pak Khafid, Wahyu Pandoe, Imam Mudita, and Roman Galas
 GNSS in Support of Sea Level Monitoring: Early Warning to Long-Term Corrections
- XL213 EGU2011-13129
David Mencin, Selwyn Sacks, Alan Linde, and Michael Gladwin
 Borehole Strainmeters and Natural Hazards

EOS03/GD1.8/NH9.4/SM1.10/TS1.10 – Science in tomorrow's classroom (co-organized) – Posters

Convener: Phil Smith | Co-Conveners: Stephen Macko, Angelo Camerlenghi, Annegret Schwarz, Jean-Luc Berenguer, Eve Arnold

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Angelo Camerlenghi, Phil Smith

- XL5 EGU2011-13672
Eve Arnold, Friedrich Barnikel, Jean-Luc Berenguer, Anita Bokwa, Angelo Camerlenghi, Francesca Cifelli, Francesca Funicello, Carlo Laj, Stephen Macko, Annegret Schwarz, Phil Smith, Herbert Summesberger and the Eve Arnold Team
 Geoscience Information For Teachers (GIFT) Workshops at the European Geoscience Union
- XL6 EGU2011-1044
Alain Sarkissian and Jan Borm
 International Master Arctic Studies at Versailles University
- XL7 EGU2011-1558
Roberto Greco
 1st edition in Europe of International Earth Science Olympiad
- XL8 EGU2011-2238
Carla Cardano and Ambra Boscaro
 Walking on a carpet of stars under the moonlight
- XL9 EGU2011-2309
Jean-Luc Berenguer, Françoise Courboux, and Audrey Tocheport
 Tuned in to the Earth from the classroom with 'Sismos à l'Ecole'
- XL10 EGU2011-2319
Silvia Elisabeth Moraes
 Building interdisciplinary thinking through thematic projects
- XL11 EGU2011-2536
Antoni Cassany
 Biodiversity around us: El Saler (Valencia)
- XL12 EGU2011-3106
Pierluigi Stroppa
 Complexity pays
- XL13 EGU2011-3130
Fulvia Bradassi, Francesco Cumani, and Guido Bressan
 Ocean Acidification: a school experiment
- XL14 EGU2011-3137
Paul Denton and Aoife O'Mongain
 School Seismology Experiences in the UK
- XL15 EGU2011-3153
Dario Carrea, Marc-Henri Derron, and Michel Jaboyedoff
 Raising awareness of children for landslide hazard using analogical sand box simulation

- XL16 EGU2011-3251
Paul Pillot
Crystallographic models make geology clear
- XL17 EGU2011-4087
Niklas Wästeby
Research School for Teachers, an example from Sweden
- XL18 EGU2011-4108
Paola Arcaleni
Amphibians extinction risk A new learning and teaching methodology to preserve Biodiversity
- XL19 EGU2011-4176
Filippo Camerlenghi, Lezzani Giacomo, and Pasquare' Federico Aligi
Assessing the effectiveness of the GIFT Strategy: A BSc Dissertation on the 2010 Workshop
- XL20 EGU2011-4257
Sandrine Gayraud
Oceanides Project - from Venus to Neptune, oceanographic buoys
- XL21 EGU2011-4427
Dandrey Guillaume
The "Phylogen
- XL22 EGU2011-4856
Julie Boyle
Practical Lessons Based on Seismology and Meteorology
- XL23 EGU2011-5725
Michaela Poppe, Andreas Zitek, Michael Stelzhammer, Bert Bredeweg, and Susanne Muhar
How can we increase causal and structural system understanding in environmental science education? First evaluation results of a conceptual modelling software (DynaLearn) in Austria
- XL24 EGU2011-7427
Gerda Holzapfel and Florin Florineth
WASSERLEBEN - High school students, teachers, students and scientists together in action
- XL25 EGU2011-8260
Isabella Marini
Ferments of Life: barley, saliva and the enzyme idea.
- XL26 EGU2011-8282
Isabella Marini
A segment of purine metabolism: an experimental tool for important biochemical concepts.
- XL27 EGU2011-8297
Isabella Marini
Stress response and evolution
- XL28 EGU2011-9083
Britta Bookhagen, Agnes Mair, and Gertrude Zulka-Schaller
Teaching Geosciences at the Childrens's University Vienna and the Vienna Natural History Museum
- XL29 EGU2011-9351
Simona Safarcikova
Microbiology in practice: Are there really any live and active bacteria cultures in yogurts?
- XL30 EGU2011-9355
Laurence Durand and **Aline Desmorat**
Darwin, the man who dared ! Science and history project
- XL31 EGU2011-9356
Giulia Realdon and Roberto Greco
Selection and preparation of a national team for International Earth Science Olympiads (IESO): the Italian case
- XL32 EGU2011-9399
Begoña Vendrell and Josep-Maria Gili
Bringing the Ocean closer: an example of how to bind Research and Education and Outreach
- XL33 EGU2011-9437
Nicole Lengert
Training Communication and Method Skills to Enrich Scientific Education
- XL34 EGU2011-9540
Bernadette Walter
BIOVALLEY- COLLEGE NETWORK (BCN): Trinational Network to Intensify the Teaching of Natural Science at Gymnasia Level in the trinational region near Basel
- XL35 EGU2011-9670
Stephen Macko, Michael Tuite, and Matthew O'Connell
Enhancing Oceanography understanding with the experiences of "Captive Oceans"
- XL36 EGU2011-10593
Francisco Lopes, Lúcia Dias, Ana Bonifácio, Gonçalo Corigo, Tomás Ramos, and Marcos Rodrigues
A didactic model of a mountain glacier

- XL37 EGU2011-10752
Julie Bénard
A charter about the good use of water made by 2 classes of 13 years old pupils
- XL38 EGU2011-11060
Elisabeth Einarsson
Geology in school
- XL39 EGU2011-11720
Luciano Massetti, Francesca Ugolini, and Antonio Raschi
Teaching climate effects on plant growth in primary schools of rural areas
- XL40 EGU2011-11869
Anca-Catalina Marian and Aura-Cecilia Harceaga
Puzzle Universe
- XL41 EGU2011-12344
Guillermo Meléndez, Georgia Fermeli, Julia Escorihuela, and **Amelia Calonge**
Defining geotopes as educational tools in Earth Sciences: their use, valuation and protection
- XL42 EGU2011-12417
Roberta Johnson, Ardis Herrold, Missy Holzer, and Michael Passow
New Collaborative Strategies for Bringing the Geosciences to Students, Teachers, and the Public: Progress and Opportunities from the National Earth Science Teachers Association and Windows to the Universe
- XL43 EGU2011-12596
Margarida Agostinho and Guadalupe Jacome
SEDEC - from a European project to a teachers training course
- XL44 EGU2011-12659
Jean Pennycook
Engaging the K-12 community in Adelie Penguin and climate change research using the internet to provide a virtual field trip to Cape Royds, Ross Island, Antarctica.
- XL45 EGU2011-12684
Tomas Miler and Jindriska Svobodova
Climate literacy for upper primary teachers
- XL46 EGU2011-12690
John Moore
To Observe the Earth and Visualize the Future
- XL47 EGU2011-12703
Buffy Cushman-Patz
GRUVEE Broad Impacts: Elements of a Successful Teacher at Sea Experience
- XL48 EGU2011-13178
Beatriz Oliveira and Raquel Costa
Portuguese "Teacher on Board"
- XL49 EGU2011-13184
frederique meunier
biodiversity: yesterday and today
- XL50 EGU2011-13189
Elisabeta Niculescu
Interdisciplinary teaching about crystals
- XL51 EGU2011-13249
Georgia Fermeli, Fritz Steininger, Guillermo Meléndez, Michael Dermitzakis, Amelia Calonge, Carolina D'Arpa, Carolina Di Patti, Anastasia Koutsouveli, Carlos Neto de Carvalho, and Joana Rodrigues
Geoschools - Teaching geosciences in secondary schools
- XL52 EGU2011-13487
Philippe Ailleris
Observed a mysterious aerial event that you can't explain? The UAP Observations Reporting Scheme as a tool for demystifying UFOs and stimulating interest in science
- XL53 EGU2011-13668
Laura Lukes
Combining virtual and real field environments using Google Earth to engage both teachers and students in polar science
- XL54 EGU2011-13950
Phil Smith and Carol Hince
The Teacher Scientist Network - best practice in local partnerships
- XL55 EGU2011-13953
Francisca Guerola and Alicia Miralles
Investigative project: Evolution
- XL56 EGU2011-14085
Costantina Cossu
Science CLIL - water and marine ecosystem

GD2.4/SM4.1/TS10.2 – The Lithosphere-Asthenosphere Boundary (LAB) Dilemma (co-organized) – Orals

Convener: Ulrich Achauer | Co-Conveners: Rainer Kind, Valentin Mikhailov, Alan G. Jones, Jaroslava Plomerova, Stefan Jung

Room: 37

Chairperson: n.n.

- 15:30–15:45 EGU2011-1614
Elena Timoshkina and **Valentin Mikhailov**
On the role of lithosphere - asthenosphere topography in geodynamics
- 15:45–16:00 EGU2011-1994
Rainer Kind, Prakash Kumar, Benjamin Heit, and Xiaohui Yuan
How is the seismic LAB observed?
- 16:00–16:15 EGU2011-4755
Stewart Fishwick, **Alan G. Jones**, and Rob L. Evans
A comparison of seismological and electromagnetic proxies for the LAB in southern Africa
- 16:15–16:30 EGU2011-9365
Alan Levander, Yongbo Zhai, Kaijian Liu, Jennifer Mackenzie, Robert Poritt, and Richard Allen
The Lithosphere and the Asthenosphere in the Mendocino Triple Junction Region
- 16:30–16:45 EGU2011-13560
Steven Hansen, Josh Stachnik, and Ken Dueker
Lithospheric structure of the Colorado Rockies from CREST and TA seismic data
- 16:45–17:00 EGU2011-7010
Ulrich Achauer, Jaroslava Plomerová, Vladia Babuška, Hanka Karousová, Ludek Vecsey, and Michel Granet
Lithosphere-asthenosphere upwelling or a plume in seismic tomography beneath the western Bohemian Massif?

SM1.4/EG12/G6.5/GD2.10/GM5.8/TS4.8 – TOPOEUROPE, The Evolving Topography of Europe (co-organized) – Orals

Convener: Sierd Cloetingh | Co-Conveners: Jörg Ebbing, Josep Gallart

Room: 27

Chairperson: Sierd Cloetingh

- 10:30–10:45 EGU2011-7071
Wim Spakman, Trond H. Torsvik, Paul Tackley, Taras Gerya, Carlo Doglioni, Thomas Meier, Wolfgang Friederich, and Arie P. van den Berg
Mantle forcing of Earth surface evolution in Europe and the Mediterranean: From Past to Present (TOPO-4D)
- 10:45–11:00 EGU2011-3491
Mariya Chertova, Thomas Geenen Geenen, Arie van den Berg, and Wim Spakman
Modeling of self-consistent lithosphere subduction dynamics using a composite rheology.
- 11:00–11:15 EGU2011-7959
Karin Warners-Ruckstuhl, **Rob Govers**, and Rinus Wortel
The Eurasian stress field: important role of topography and mantle flow
- 11:15–11:30 EGU2011-3346
giorgio manzoni
GNSS in Eurasian Corridors
- 11:30–11:45 EGU2011-5474
Andreas Knöpfner, Michael Mayer, Frédéric Masson, Patrice Ulrich, and Bernhard Heck
The transnational geo-scientific initiative GURN (GNSS Upper Rhine Graben Network) - Recent results and future plans
- 11:45–12:00 EGU2011-7433
Søren B. Nielsen and the TOPOREAL Team
TOPOREAL: Topography of the North Atlantic realm

LUNCH BREAK

Chairperson: Sean Willett

- 13:30–13:45 EGU2011-7384
Zoltan Erdos, Ritske S. Huisman, and Peter van der Beek
Evaluating balanced section restoration with thermochronological data
- 13:45–14:00 EGU2011-5849
Charlotte Fillon, Luis Barbero, David Pedreira, Cecile Gautheron, and Peter van der Beek
Thermochronological evidence for significant Cenozoic exhumation in the Eastern Cantabrian Mountains

- 14:00–14:15 EGU2011-4063
Suzon Jammes and Ritske S. Huismans
 Influence of structural inheritance during inversion tectonics at lithospheric scale: the example of Pyrenean-Cantabrian mountain belt
- 14:15–14:30 EGU2011-2763
Javier Fernández-Lozano, Dimitrios Sokoutis, Ernst Willingshofer, Alfonso Muñoz-Martín, Gerardo De Vicente-Muñoz, and Sierd Cloetingh
 Integration of gravity and topography analyses in analogue modelling: understanding lateral strength variations in Iberia and their influence on intra-plate mountain building.
- 14:30–14:45 EGU2011-5928
Enric Suades Sala and Ana Crespo Blanc
 Onshore study of syn-orogenic olistostromic deposits in the Gibraltar Arc: a tool to reveal mountain front uplift
- 14:45–15:00 EGU2011-8617
Kurt Stüwe, Nicolas Legrain, Andreas Wölfler, Istvan Dunkl, and Todd Ehlers
 New U-He ages for the Eastern Alps
- Chairperson: Paola Campus
- 15:30–15:45 EGU2011-10128
Andreas Wölfler, Walter Kurz, Harald Fritz, and Kurt Stüwe
 Lateral Extrusion in the Eastern Alps: Time constraints and plate tectonic controls during Oligocene to Miocene times
- 15:45–16:00 EGU2011-12938
Michał Smigielski, Piotr Krzywiec, Katarzyna Pisaniec, Finlay Stuart, Cristina Persano, Hugh Sinclair, Nestor Oszczyk, and Katarzyna Sobien
 Inversion of the Central Carpathian Basin constrained using low temperature thermochronology and its implications for Carpathian orogenesis.
- 16:00–16:15 EGU2011-1287
Gilles Lericolais, Julien Bourget, Paul Jermannaud, Stephan Jorry, Thierry Mulder, and Irina Popescu
 The active sink of the Danube river Basin: The Danube deep-sea fan
- 16:15–16:30 EGU2011-11100
David Fernández-Blanco and Giovanni Bertotti
 Neogene vertical movements in the Mut-Ermenek Basin, south Turkey: New insights from structural studies
- 16:30–16:45 EGU2011-1691
Giuditta Radeff, Domenico Cosentino, Taylor F. Schildgen, Güldemin Darba?, and Kemal Gürbüz
 Differences and similarities in the Late Miocene geohistory of the Mut and Adana basins (southern Turkey): a record of surface uplift of the southeast margin of the Central Anatolian plateau
- 16:45–17:00 EGU2011-625
Stella Lucifora, Francesca Cifelli, Massimo Mattei, Andrew Roberts, Domenico Cosentino, Paola Cipollari, and Elsa Gliozzi
 Inconsistent magnetic polarities from Upper Messinian greigite-bearing sediments from Adana Basin (Southern Turkey)

SM1.4/EG12/G6.5/GD2.10/GM5.8/TS4.8 – TOPOEUROPE, The Evolving Topography of Europe (co-organized) – Posters

Convener: Sierd Cloetingh | Co-Conveners: Jörg Ebbing, Josep Gallart

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Sierd Cloetingh

- XY725 EGU2011-7682
Britta Wawerzinek, Corinna Roy, and Joachim Ritter
 Teleseismic Shear-Wave Analysis in Southern Norway
- XY726 EGU2011-1114
Jörg Ebbing, Richard W. England, Toivo Korja, and Maxim Smirnov
 Insights into the lithospheric structure beneath the Central Scandes from combining different geophysical observations
- XY727 EGU2011-1223
Trond Kvarven, Wanda Stratford, and Rolf Mjelde
 TopoScandiaDeep: Results from an OBS survey off Møre, mid Norway
- XY728 EGU2011-3144
Babak Hejrani, Bo Holm Jacobsen, Anna Bondo Medhus, and Niels Balling
 Resolving a deep lithosphere transition between Southern Norway and Southern Sweden

- XY729 EGU2011-9456
Sofie Gradmann, Joerg Ebbing, and Javier Fullea
 Tracing lithospheric mantle variations underneath Norway and Sweden - An integrated modelling approach with LitMod3D
- XY730 EGU2011-10339
Christian Weidle, Niels Balling, Andy Frassetto, Bo Holm Jacobsen, Andreas Köhler, Valérie Maupin, Anna Bondo Medhus, Joachim Ritter, and Britta Wawerzinek
 Upper mantle structure of southwestern Scandinavia reveals the rim of cratonic Baltica
- XY731 EGU2011-6921
 Monika Dec, **Edward Perchuc**, and Blanka Nita
 A new model of upper mantle structure beneath Polish part of the Precambrian East European Craton
- XY732 EGU2011-9842
Shalaleh Mohammadi, Thomas Geenen, Arie van den Berg, and Wim Spakman
 Topography response to instantaneous mantle dynamics of the European-Mediterranean region
- XY733 EGU2011-2109
 Lapo Boschi, **Claudio Faccenna**, and Thorsten Becker
 Mantle structure and dynamic topography in the Mediterranean Basin
- XY734 EGU2011-3807
Nuno Afonso Dias, Fernando Carrilho, Christian Haberland, Joao Fonseca, Mourad Bezzeghoud, Susana Custodio, Antonio Villasenor, Conceicao Neves, Rui Fernandes and the WILAS Team
 Closing the Seismic Coverage on Western Iberia: Project WILAS
- XY735 EGU2011-3860
Juanjo Ledo, Alan G Jones, Agata Sinischalchi, Joan Campanyà, Duygu Kiyan, Gerardo Romano, Mohamed Rouai and the TopoMed MT Team
 The TopoMed broad band magnetotelluric experiment: crustal images of the Atlas mountains of Morocco.
- XY736 EGU2011-4181
Benjamin Guillaume, Francesca Funiciello, Claudio Faccenna, and Carlo Doglioni
 Effects of background mantle flow on subduction dynamics: insights from laboratory models
- XY737 EGU2011-6456
Duygu Kiyan, Alan G. Jones, Javier Fullea, Colin Hogg, Juanjo Ledo, Agata Siniscalchi, Joan Campanyà, Gerardo Romano, Pierpaolo Moretti, Mohamed Rouai and the The TopoMed MT Team
 Lithospheric-scale geometry of the Atlas Mountains of Morocco revealed by magnetotelluric surveying
- XY738 EGU2011-4217
Maria Neves, Filipe Rosas, Pedro Terrinha, Luis Matias, Marylin Moulin, and Joaquim Luis
 Gravitational stresses and tectonic loading near shore: insights from the Gulf of Cadiz.
- XY739 EGU2011-7006
 Giorgi Khazaradze, **Eva Asensio**, Anna Echeverria and the Topo-Iberia GPS Team
 Crustal deformation studies in Iberia: Topo-Iberia CGPS network
- XY740 EGU2011-8420
Antonio Villasenor, Sébastien Chevrot, Mimoun Harnafi, Josep Gallart, and Topo-Iberia Seismic Working Group
 Seismic structure beneath the Gibraltar Arc, Western Mediterranean region using broadband data from IberArray and permanent networks
- XY741 EGU2011-8811
Jaume Pous, Galindo-Zaldívar, J Ruiz-Constán, A Anahnah, F, Asensio, E Seillé, H, Ibarra, P Pedrera, A, Chalouan, A Benmakhlouf, M Ahmamou, M, Ruano, P López-Garrido, AC Sanz de Galdeano, C, Muñoz, A Olaiz, A De Vicente, G, and González-Cortina, JM Gallastegui, J Pedreira, D
 On-going Magnetotelluric (MT) activities within the Topo-Iberia project
- XY742 EGU2011-8948
Jan-Philipp Schmoldt, Alan G. Jones, Mark Muller, Duygu Kiyan, Colin Hogg, and Oriol Rosell Novel
 Geometries and structures within the Iberian lithosphere and asthenosphere beneath the Tajo Basin and Betic Cordillera revealed using magnetotellurics - Results of the PICASSO Phase I project
- XY743 EGU2011-12654
 Oriol Rosell, Anna Martí, Àlex Marcuello, Juanjo Ledo, **Pilar Queralt**, Eduard Roca, and Joan Campanyà
 Geoelectrical deep structure of the Betic Cordillera (South Spain) revealed: an evidence of asthenospheric upwelling
- XY744 EGU2011-5875
Charlotte Fillon and Ritske Huismans
 Coupled tectonic-surface processes modeling of the southern Pyrenean fold and thrust belt
- XY745 EGU2011-7621
Jordi Diaz, David Pedreira, Mario Ruiz, Javier A. Pulgar, and Josep Gallart
 Mapping the indentation between the Iberian and European crusts between the Pyrenees and the Cantabrian Mountains (N Iberia) from seismic methods.

- XY746 EGU2011-9406
Ivar Midtkandal, Roy Helge Gabrielsen, Jean-Pierre Brun, and Ritske Huismans
Modelling compression along an extended plate boundary; the influence of along-strike mantle strength variation on subduction polarity
- XY747 EGU2011-12566
David Pedreira, Javier A. Pulgar, and Juan Carlos Afonso
Geophysical-petrological modelling of the lithosphere beneath the Cantabrian Mountains and North-Iberian margin: mantle wedge hydration triggered by eclogitization reactions?
- XY748 EGU2011-1373
Christoph von Hagke, Onno Oncken, Charlotte E. Cederbom, Daniel F. Stöckli, and Hugo Ortner
Did thrusting cease in the Northern Alpine Foreland Basin at 12Ma? - Answers from low-temperature thermochronology
- XY749 EGU2011-4147
Pietro Sternai, Frédéric Herman, and Sean Willett
Reconstruction of the pre-glacial Alpine topography to address the glacially-induced modifications
- XY750 EGU2011-8639
Kurt Stüwe and Ruedi Homberger
The Geology of the Alps from the Air
- XY751 EGU2011-10031
Pierre Valla, Peter van der Beek, David Shuster, Jean Braun, and Frédéric Herman
Alpine pre-glacial topography and Quaternary landscape evolution from (U-Th-Sm)/He, 4He/3He thermochronometry and numerical modelling, Western European Alps
- XY752 EGU2011-10101
Andreas Wölfler, Kurt Stüwe, Nicolas Legrain, and Harald Fritz
Neogene denudation rates in the Eastern Alps as determined by low temperature thermochronology
- XY753 EGU2011-957
Csilla Karina Biró and Balázs Székely
Historical river avulsion at the Danube Bend - insights from archive shallow boreholes and vertical geoelectric sounding data at Pilismarót
- XY754 EGU2011-12824
Gábor Kovács, Tamás Telbisz, and Balázs Székely
Quaternary alterations of drainage network in the transition zone between the Alps and the Pannonian Basin
- XY755 EGU2011-13362
András Zámolyi, Martin Olsen, Balázs Székely, Gábor Timár, Gábor Varga and the Húge Hernád Research Team
Tectonically influenced landscape evolution in the Hernád-valley region (NE Hungary)
- XY756 EGU2011-11246
Martin Schmeer, Michael Schmidt, Benoit Meyssignac, Wouter van der Wal, and Frank Flechtner
Regional Gravity fields from GRACE observations
- XY757 EGU2011-4032
Damien Delvaux, Sierd Cloetingh, Fred Beekman, Dimitrios Sokoutis, Evgueni Burov, and Michael Kaban
Basin evolution in a folding lithosphere. Examples from the Altay-Sayan and northern Tien Shan

GD3.3/TS10.3 – Neoproterozoic basins and orogenesis in the circum-North Atlantic region (co-organized) – Orals

Convener: Peter Cawood | Co-Conveners: Rob Strachan

Room: 30

Chairperson: Rob Strachan and Peter Cawood

- 15:30–15:45 EGU2011-2484
Peter Cawood, Rob Strachan, and Sergei Pisarevsky
Neoproterozoic sedimentation and orogenesis in NE Laurentia
- 15:45–16:00 EGU2011-4439
Sergei Pisarevsky
Neoproterozoic paleogeography: paleomagnetic perspective
- 16:00–16:15 EGU2011-9286
Arild Andresen, **Lars Augland**, and Nana Agyei-Dwarko
The Landegode- Heggmovaln "basement terranes"- fragments of the Laurentian Grenville Orogen in the Scandinavian Caledonides?
- 16:15–16:30 EGU2011-9378
Galen Halverson, Francis Macdonald, Grant Cox, Emily Smith, Justin Strauss, Mark Schmitz, Justin Payne, and Charlie Roots
Multi-stage breakup of Rodinia in northwest Laurentia: new insights from the Yukon

- 16:30–16:45 EGU2011-2729
Maurice Colpron and JoAnne Nelson
 Baltican and Caledonian origins for Neoproterozoic successions in exotic terranes of the North American Cordillera
- 16:45–17:00 EGU2011-14133
Henning Lorenz, Jaroslav Majka, Alexander Larionov, and David Gee
 Grenville-Sveconorwegian detrital zircon signatures in the High Arctic, from East Greenland to Severnaya Zemlya

GD4.2/TS5.7 – Evolution of the North and South Atlantic, adjacent continents, and passive continental margins in general (co-organized) – Orals

Conveners: Ulrich Anton Glasmacher, Peter Japsen, Dominique Chardon | Co-Conveners: Anicet Beauvais, Johan M. Bonow, Hans-Peter Bunge, Peter R. Cobbold, Ana Franco-Magalhaes, François Guillocheau, Peter C. Hackspacher, Per Terje Osmundsen, Martyn Stoker, Magdalena Scheck-Wenderoth, Robert B. Trumbull, Nicky White

Room: 30

Chairperson: n.n.

- 08:30–08:45 EGU2011-6951
Nicky White
 Spatial and Temporal Variation of Dynamic Topography on Earth
- 08:45–09:00 EGU2011-5828
James Chalmers
 Flow of material under compression in the weak layers of continental crust can cause post-rift uplift of passive continental margins
- 09:00–09:15 EGU2011-7581
Sascha Brune, Anton A. Popov, and Stephan V. Sobolev
 Three-dimensional numerical experiments on oblique rifting
- 09:15–09:30 EGU2011-6001
Eline Le Breton, Peter R. Cobbold, Pierrick Roperch, and Olivier Dauteuil
 Ridge-plume interaction and differential spreading along the northern North Atlantic ridge and resulting Cenozoic compressional deformation of the NE Atlantic margin
- 09:30–09:45 EGU2011-3312
Tim Redfield and Per Terje Osmundsen
 Mesozoic crustal architecture defines Scandinavia's present-day geomorphology
- 09:45–10:00 EGU2011-14109
Paul F. Green, Ian R. Duddy, Peter Japsen, Johan Bonow, and James Chalmers
 Episodic thermal and burial/exhumation histories along passive margins revealed by AFTA demand an explanation

COFFEE BREAK

Chairperson: n.n.

- 10:30–10:45 EGU2011-4169
François Guillocheau, Dominique Chardon, Dominique Frizon de Lamotte, Cécile Robin, Delphine Rouby, and Olivier Dauteuil
 Palaeogeographic and tectonic evolution of Africa during Cenozoic times
- 10:45–11:00 EGU2011-1500
Jean Braun, Robert Moucha, François Guillocheau, and Andrew Bush
 Coupled mantle, erosion and climate models to explain recent geological events in the African continent.
- 11:00–11:15 EGU2011-4915
Katherine Dobson, Roderick Brown, Rhona MacDonald, Kerry Gallagher, and Finlay Stuart
 Constraining the Cenozoic evolution of South Africa using (U-Th)/He thermochronology: the influence of dynamic topography at a passive margin
- 11:15–11:30 EGU2011-760
Miriam Wiegand, Robert B. Trumbull, and Reinhard O. Greiling
 Dyke emplacement at the incipient Namibian margin - Structural and anisotropy of magnetic susceptibility (AMS) studies in a dyke swarm
- 11:30–11:45 EGU2011-2644
Michel Seranne, Christopher Lacan, Olivier Bruguier, Pierre Giresse, Zahie Anka, and Mathieu Moussavou
 Coupled sedimentary evolution of the Congo Basin and equatorial west-African Margin : a Cainozoic record of tectonic and climate forcings

- 11:45–12:00 EGU2011-2237
Friederike U. Bauer, Matthias Starz, Ulrich A. Glasmacher, René W. Grobe, Meni Malikwisha, Vikandy S. Mambo, and Bin V. Mutete
 Thermal and erosional evolution of the Albertine Rift in East Africa, evidence from the western rift shoulder (DRC)

LUNCH BREAK

Chairperson: n.n.

- 13:30–13:45 EGU2011-59
Eduardo Rossello
 The pre-Mesozoic basement in the Atlantic rifted margin segment off Buenos Aires province (Argentina) and Uruguay: influences on the geometries and HC potential
- 13:45–14:00 EGU2011-2917
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
 Colorado Basin Structure and Rifting, Argentine passive margin
- 14:00–14:15 EGU2011-8646
Katharina Becker, Dieter Franke, Michael Schnabel, Bernd Schreckenberger, and Charlotte M. Krawczyk
 The stratigraphy and crustal structure of the rift shear transition off Argentina
- 14:15–14:30 EGU2011-1315
Gabriele Uenzelmann-Neben, Jens Gruetzner, and Dieter Franke
 Detailed seismic analysis of the Terraces sector in the southern Argentine Basin: implications for bottom water flow changes during the Neogene
- 14:30–14:45 EGU2011-160
Ana Olivia Franco-Magalhaes, Ulrich Anton Glasmacher, Peter Christian Hackspacher, Iata Anderson De Souza, and Antonio Roberto Saad
 Onshore fracture zones and their extension offshore in the South Atlantic: insights from geophysical anomalies and low-temperature thermochronology
- 14:45–15:00 EGU2011-3495
Nathan Cogné, Peter R. Cobbold, Claudio Riccomini, and Kerry Gallagher
 Evidence for post-rift reactivation in SE Brazil

GD5.1/GMPV41/SM4.5/TS6.9 – Subduction zone dynamics from the surface to the lower mantle (co-organized) –
 Posters

Convener: Susanne Buiter | Co-Conveners: Francesca Funiciello, Jeroen van Hunen, Marina Manea, Yildirim Dilek, Vlad Constantin Manea, Yujiro Ogawa

Hall A | Display Time 08:00–19:30

Author in Attendance: 15:30–17:00

Chairperson: n.n.

- A48 EGU2011-12798
Petros Koutsovitis, Andreas Magganas, Konstantinos Soukis, and Stylianos Lozios
 Petrological and structural observations on mylonitized intermediate and felsic rocks within the ophiolitic formation of Vrinena - East Othris, Greece.
- A49 EGU2011-5395
Yildirim Dilek and Harald Furnes
 Magmatic Imprint of Subduction Initiation in the Phanerozoic Ophiolite Record
- A50 EGU2011-1024
Tola A. Merza
 Distribution of PGE and PGM in Chromitite Rocks of the Mawat Ophiolite Complex, Kurdistan Region, NE Iraq
- A51 EGU2011-33
Alexander Rodnikov, Natalia Sergeeva, and Ludmila Zabarinskaya
 Ancient subduction zone in East Sakhalin (Sea of Okhotsk Region)
- A52 EGU2011-13238
Ender Sarifakioglu, Mustafa Sevin, and Yildirim Dilek
 Geochemical and geological evidence for progressive evolution of subduction initiation magmatism in the Neotethyan ophiolites along the Izmir-Ankara-Erzincan suture zone, Turkey

- A53 EGU2011-3100
Yujiro Ogawa, Naoto Hirano, Ryota Mori, and Toshiaki Tsunogae
History and records from Mineoka ophiolitic mélange belt for the idea of initiation and development of Izu-Bonin arc in Western Pacific
- A54 EGU2011-5396
Shoji Arai and Ahmed H. Ahmed
Origins of ophiolitic chromitites: magmatic accumulation and deep recycling
- A55 EGU2011-4565
Timothy Kusky, Songbai Peng, and Lu Wang
1.0 Ga Ophiolite on North Margin of the Yangtze Craton Clarifies South China's Amalgamation with Rodinia
- A56 EGU2011-4639
Lu Wang, Timothy M. Kusky, Keqing Zong, Liang Guo, and Shibao Xiang
Partial Melting of Deeply-Subducted Eclogite: Field and Petrographic Evidence from the Sulu UHP orogen, China
- A57 EGU2011-706
Quanshu Yan and Xuefa Shi
Petrological evidence for the existence of the late Mesozoic subduction zone in the South China Sea (SCS): I-type granites from the Nansha micro-block
- A58 EGU2011-6546
Massimiliano Melchiorre, Massimo Coltorti, Michel Gregoire, and Mathieu Benoit
Petrology of suprasubductive mantle xenoliths from Estancia Sol De Mayo (Central Patagonia, Argentina)
- A59 EGU2011-2330
Heidrun Kopp, Wolfgang Weinzierl, Mireille Laigle, Ernst R. Flueh, Alfred Hirn, Dirk Klaeschen, Cord Papenberg, Trail Team, and Thales Team
Composition and deep structure of island arc crust in the central Lesser Antilles: Insights for the formation of continental crust.
- A60 EGU2011-3314
Chrystele Verati, Michel Corsini, and Jean-Marc Lardeaux
Discovery of Lower Cretaceous syn-metamorphic thrust tectonics in French Lesser Antilles (La Désirade Island, Guadeloupe): Implications for Caribbean geodynamics
- A61 EGU2011-5872
Nur Demir, Heidrun Kopp, Ernst R. Flueh, Dirk Klaeschen, Wolfgang Weinzierl, Alfred Hirn, Mireille Laigle, and Thales Working Group
The Sedimentary Sequences of the Lesser Antilles Arc South of Guadeloupe From Wide-Angle and Reflection Seismic Data
- A62 EGU2011-8112
Mikael Evain, Audrey Galve, Philippe Charvis, Mireille Laigle, Mario Ruiz, Heidrun Kopp, Wolfgang Weinzierl, Alfred Hirn, Ernst Flueh, and Thales Scientific Party
Structure of the Lesser Antilles subduction zone from wide-angle seismic tomography
- A63 EGU2011-4788
Shane McGary, **Stéphane Rondenay**, Rob Evans, Geoffrey Abers, Philip Wannamaker, and Chin-Wu Chen
A joint geophysical investigation of the Cascadia subduction zone in central Washington using data from dense arrays of passive seismic and magnetotelluric stations
- A64 EGU2011-6881
Irene Bianchi, Nicola Piana Agostinetti, Alessandro Amato, and Claudio Chiarabba
Fluid migration in continental subduction: new insights on Northern Apennines (Italy) from Receiver Function
- A65 EGU2011-786
Thaís Hyppolito and Caetano Juliani
Atoll garnet textures in eclogitic rocks of the Diego de Almagro Island, Chilean Patagonia: Genesis and tectono-metamorphic implications
- A66 EGU2011-7110
Carlos Marcello Dias Fernandes, Caetano Juliani, Lena Virgínia Soares Monteiro, Bruno Lagler, and Carlos Mario Echeverri Misas
Possible arc migration and metallogenetic zoning in the South portion of the Amazonian craton, North of Brazil
- A67 EGU2011-11200
Yvonne Dzierma, Thorwart Martin, **Mora Cindy**, Rabbel Wolfgang, Siegmund Claudia, Lieser Kathrin, Comte Diana, Bataille Klaus, Iglesia Paula, and Prezzi Claudia
Seismological and volcanological investigations of the Villarrica-Valdivia region, South-Central Chile
- A68 EGU2011-7070
Vlad Constantin Manea and Marina Manea
Flat-slab dehydration, non-volcanic tremors and roll-back in Central Mexico
- A69 EGU2011-6995
Marina Manea and Vlad Constantin Manea
Curie Point depth estimates and correlation with flat-slab subduction in Mexico

- A70 EGU2011-1309
Yiseul Lee, Bumsuk Lee, Heonhak Lim, Cheol Hoon Mo, Youngho Yoon, Gwang Hoon Lee, Young-Seog Kim, and Hai Soo Yoo
 The back-arc closure of the Ulleung Basin, East Sea (Japan Sea) and tectonic implications
- Hall A | Display Time 08:00–19:30**
 Author in Attendance: 17:30–19:00
 Chairperson: n.n.
- A71 EGU2011-4129
Emile Okal, Dominique Reymond, and Sutatcha Hongsresawat
 Focal mechanisms of large historical earthquakes in the Bonin-Mariana subduction zone
- A72 EGU2011-12400
Natalie Deseta, Lewis Ashwal, and Torgeir Andersen
 Geochemistry of blueschist facies mafic and ultramafic pseudotachylytes
- A73 EGU2011-10190
Alexandre Schubnel, Nadège Hilairet, Julien Gasc, Eva Hérupré, Fabrice Brunet, and Yanbin Wang
 Seismicity triggered by the olivine-spinel transition: New insights from combined XRD and acoustic emission monitoring during deformation experiments in Mg₂GeO₄
- A74 EGU2011-4338
Vinnie L. Yu and Wen-che Yu
 Deep-focus repeating earthquakes in the Tonga-Fiji-Kermadec subduction zone
- A75 EGU2011-9042
Robert Myhill, Dan McKenzie, and Keith Priestley
 Earthquake distributions and their relationship with structural, chemical and thermobaric heterogeneities in subducting slabs
- A76 EGU2011-10679
Yvonne Font, Monica Segovia, Jean-Mathieux Nocquet, and Mohamed Chlieh
 Seismicity distribution and interseismic coupling on the Ecuadorian Seismogenic Zone
- A77 EGU2011-8963
Jeanette Di Leo, James Wookey, James Hammond, and J.-Michael Kendall
 Shear-Wave Splitting beneath Northern Sulawesi and the southernmost Philippines - The Sangihe Subduction Zone
- A78 EGU2011-3730
Arnaud Heuret, Debora Presti, Francesca Funiciello, Claudia Piromallo, and Serge Lallemand
 Unraveling the behavior of subduction zones interplate seismicity using a global statistical approach
- A79 EGU2011-3192
Tao Li and Andrea Hampel
 Preliminary results from numerical subduction zone models investigating the slip behaviour of the plate interface during changes in surface loads
- A80 EGU2011-2776
Giampiero Iaffaldano, Erika Di Giuseppe, Fabio Corbi, Francesca Funiciello, Claudio Faccenna, and Hans-Peter Bunge
 Variable mechanical coupling along the Andes and implications for trench curvature, shortening, and topography
- A81 EGU2011-5714
Laurent Husson, Benjamin Guillaume, Francesca Funiciello, Claudio Faccenna, and Leigh Royden
 Unravelling topography around subduction zones from laboratory models
- A82 EGU2011-2771
 Robert Bialas, **Francesca Funiciello**, and Claudio Faccenna
 Subduction and exhumation of continental crust: insights from laboratory models
- A83 EGU2011-5165
 David Boutelier, Matthias Rosenau, Thomas Ziegenhagen, Franck Neumann, Onno Oncken, and **Alexander Cruden**
 Subduction orogeny along a seaward-concave plate boundary in the Central Andes: insights from 2D numerical and 3D thermo-mechanical laboratory experiments
- A84 EGU2011-1030
Andrew Bottrill, Jeroen van Hunen, and Mark Allen
 Can surface topography at continental collision zones be used to detect slab break off?
- A85 EGU2011-7654
Susanne Buiter and Susan Ellis
 The role of the initiation phase in numerical subduction models
- A86 EGU2011-4047
Valentina Magni, Jeroen van Hunen, Francesca Funiciello, and Claudio Faccenna
 3D numerical models of trench migration for lateral heterogeneous subducting palte

- A87 EGU2011-4454
Guizhi Zhu, Taras Gerya, Boris Kaus, and Paul Tackley
Three-Dimensional Plume Patterns Rising from Subducting Slabs
- A88 EGU2011-6298
Jeroen van Hunen, Claudio Faccenna, and Mark Allen
Slab break-off and applications to Tethys subduction
- A89 EGU2011-6334
Thibault Duretz and Stefan M. Schmalholz
Thermo-mechanical and analytical models of slab detachment: calibration of an effective slab flow law
- A90 EGU2011-9127
Laura Hebert and **Laurent Montesi**
Implications of deep transport of slab-adjacent hydrated material at subduction zones
- A91 EGU2011-11106
Aurélien Beaumais, Gilles Chazot, Hervé Bertrand, Laure Dosso, Bleuenn Gueguen, and Claude Robin
Crustal contamination and mantle source variations in an intra-oceanic arc: geochemistry of the Lopevi volcano lavas, Vanuatu, SW Pacific.

TS6.3/GD5.5/GMPV34/SM4.4 – The subduction interface: cross-disciplinary views from Geodynamics-Geochemistry-Seismology (co-organized) – Orals

Convener: Philippe Agard | Co-Conveners: Aral Okay, Bradley Hacker, Taras Gerya, José Alberto Padrón-Navarta, Frederik Tilmann, Nina Kukowski, Marco Scambelluri, VICENTE LOPEZ SANCHEZ-VIZCAINO

Room: 26

Chairperson: Philippe Agard, Marco Scambelluri

- 10:30–10:45 EGU2011-2133
Cristina Malatesta, Taras Gerya, Marco Scambelluri, Laura Federico, Laura Crispini, and Giovanni Capponi
Serpentine channel and the role of serpentine buoyancy for exhumation of HP rocks. Constraints from the HP-Voltri metaophiolites (Western Alps, Italy)
- 10:45–11:00 EGU2011-1457
Stephane Guillot, Fabien Deschamps, Marguerite Godard, Muriel Andréani, Kéiko Hattori, Stéphane Schwartz, and Romain Lafay
Serpentinites act as sponges for fluid-mobile elements from abyssal to subduction zone environments
- 11:00–11:15 EGU2011-3324
Torgeir B. Andersen, Håkon O. Austrheim, Natalie Deseta, and Lewis D. Ashwal
Is dehydration embrittlement at all important for generating intermediate to deep earthquakes in subduction zones?
- 11:15–11:30 EGU2011-9576
Junichi Nakajima and Akira Hasegawa
Seismological constraints on dual plate subduction beneath Kanto, Japan: Role of hydrated oceanic crust and serpentinized mantle in seismicity
- 11:30–11:45 EGU2011-12132
Manel Prada, Valentí Sallarès, Adrià Meléndez, César R. Ranero, Ingo Grevemeyer, and Kirk McIntosh
Combined seismic and gravity modeling reveal trench-parallel variations in the degree of mantle serpentinization of the incoming Cocos plate, offshore Nicaragua
- 11:45–12:00 EGU2011-11052
Nicolas Brantut, Alexandre Schubnel, Emmanuel David, Robert W Zimmerman, and Yves Gueguen
Dehydration reactions and Vp/Vs ratio anomalies: Insights from experiments on gypsum

LUNCH BREAK

Chairperson: Bradley Hacker, Frederik Tilmann

- 13:30–13:45 EGU2011-9033
Andrew Rathbun and Chris Marone
The Spectrum of Fault Slip Rates, From Creep to Stick Slip in Laboratory Friction Experiments
- 13:45–14:00 EGU2011-4543
Toshiya Kanamatsu, **Pierre Henry**, Kyaw Moe and the IODP Expedition 333 Scientists Team
Drilling inputs to the Nankai Subduction Zone: heat flow, diagenesis and basement alteration.
- 14:00–14:15 EGU2011-9999
Yann Rolland, Marc Hassig, and Marc Sosson
What is the lithological nature of subduction channels? Insights from fossil Caucasus subduction zones

- 14:15–14:30 EGU2011-9016
Samuel Angiboust, Philippe Agard, Ryan Langdon, Dave Waters, and Christian Chopin
 Exhumation of large volumes of oceanic lithosphere during subduction: Examples from the Western Alps
- 14:30–14:45 EGU2011-12835
José Alberto Padrón-Navarta, Vicente López Sánchez-Vizcaíno, Carlos J. Garrido, and María Teresa Gómez-Pugnaire
 Metamorphic record of high-pressure dehydration of antigorite serpentinite to chlorite harzburgite in a paleo-subduction setting
- 14:45–15:00 EGU2011-3555
Idael Francisco Blanco-Quintero, Taras V. Gerya, Antonio Garcia-Casco, and Antonio Castro
 Partially molten blocks from eastern Cuba serpentinite mélanges: first report of aborted thermal-chemical plumes
- Chairperson: Nina Kukowski, Taras Gerya
- 15:30–15:45 EGU2011-5181
Donna Whitney, Christian Teyssier, Nicholas Seaton, and Erkan Toraman
 High-pressure petrofabrics near the subduction interface: Sivrihisar, Turkey
- 15:45–16:00 EGU2011-4715
Peter E. van Keken, Bradley R. Hacker, Ellen M. Syracuse, and Geoffrey A. Abers
 H₂O and CO₂ devolatilization in subduction zones: implications for the global water and carbon cycles
- 16:00–16:15 EGU2011-5531
Stephen Miller and Yuri Podladchikov
 The influence of trapped high pressure fluids on the earthquake cycle
- 16:15–16:30 EGU2011-1104
Bruno Reynard, Kenji Mibe, and Bertrand Van de Moortèle
 Electrical conductivity of the serpentinised mantle and fluid flow in subduction zones
- 16:30–16:45 EGU2011-6302
Mohammad Raeesi and Kuvvet Atakan
 Inter-plate coupling and two likely future great earthquakes along the South America subduction zone
- 16:45–17:00 EGU2011-13824
Mireille Laigle, Anne Bécel, Marinos Charalampakis, Philippe Charvis, Jordi Diaz, Ernst Flueh, Mikael Evain, Josep Gallart, Audrey Galvé and the SISMANTILLES Team
 Approach to submerged fore-arc subductions in the Lesser Antilles and Hellenic arcs: integrated marine MCS, refraction, and OBS seismic activity and noise recording.

TS6.3/GD5.5/GMPV34/SM4.4 – The subduction interface: cross-disciplinary views from Geodynamics-Geochemistry-Seismology (co-organized) – Posters

Convener: Philippe Agard | Co-Conveners: Aral Okay, Bradley Hacker, Taras Gerya, José Alberto Padrón-Navarta, Frederik Tilmann, Nina Kukowski, Marco Scambelluri, VICENTE LOPEZ SANCHEZ-VIZCAINO

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Aral Okay, José Alberto Padrón-Navarta

- XL304 EGU2011-1687
Shuijiong Wang, Shuguang Li, Shichao An, and Zhenhui Hou
 Exhumation history of the North Dabie UHP terrain, central China and REE behavior during retrograde metamorphism: Evidence from three episodic growths of metamorphic zircon and REE zoning of garnet in granulite
- XL305 EGU2011-2271
Marco Scambelluri, Elisabetta Rampone, Thomas Pettke, and Eric Reusser
 Trace element geochemistry of garnet peridotites and chlorite harzburgites from Cima di Gagnone (Central Alps, Switzerland)
- XL306 EGU2011-2296
Alexander Simakin and Tamara Salova
 COS as an agent of sulfurization of the subduction related magmas.
- XL307 EGU2011-13878
Claudio Marchesi, Carlos J. Garrido, José Alberto Padrón-Navarta, María Teresa Gómez-Pugnaire, and Vicente López Sánchez-Vizcaíno
 Transfer of lithophile and siderophile elements during high-pressure dehydration of antigorite in subduction settings: new insights from the Cerro del Almiréz (Betic cordillera, S. Spain)
- XL308 EGU2011-2908
Daniela Hunziker, Eric Reusser, Daniel Grolimund, Elisabeth Müller Gubler, Jean-Pierre Burg, Mark Caddick, and Jafar Omrani
 The influence of ferric/ferrous iron ratios in bulk and mineral chemistry on calculation of metamorphic conditions: Application to the N-Makran blueschists, SE Iran

- XL309 EGU2011-5138
Alexis Plunder, Philippe Agard, Benoit Dubacq, and Christian Chopin
 Towards continuous P-T paths? Multicalibration approach and application to subduction dynamics (Schistes Lustrés complex, France)
- XL310 EGU2011-5321
Yuanyuan Xiao, Shaun Lavis, Yaoling Niu, Julian A. Pearce, Huaikun Li, Huichu Wang, and Jon Davidson
 Geochemical consequences of subduction-zone metamorphism: Evidence from ultrahigh pressure metamorphic rocks, Western Tianshan, China
- XL311 EGU2011-5350
Satoko Ishimaru, Shoji Arai, and Tomoyuki Mizukami
 Methane inclusions in olivine in titanoclinohumite-bearing meta-dunite from the Sanbagawa high-P metamorphic belt, Japan
- XL312 EGU2011-6601
Julia de Sigoyer, Camille François, Alain Cocherie, Manuel Pubellier, Vivien Bailly, and Jean-Claude Rigenbach
 Very young and fast exhumation, between 8 and 5 Ma, for the high pressure metasediments of Lengguru prism, W-Papua
- XL313 EGU2011-12186
Anne Verlaquet, Bruno Goffé, Fabrice Brunet, Christophe Poinssot, Olivier Vidal, Nathaniel Findling, and Denis Menut
 Metamorphic veining and mass transfer in a chemically-closed system: a case study in Alpine metabauxites (Western Vanoise)
- XL314 EGU2011-10379
Sebastian Weber and Kurt Bucher
 Two types of eclogite from the Zermatt-Saas unit (Swiss Alps)
- XL315 EGU2011-10447
Diana Dymkova, Taras Gerya, and Yuri Podladtchikov
 2D Numerical modelling of fluid and melt transport above slabs with finite differences and marker-in-cell techniques
- XL316 EGU2011-11872
Franz Neubauer and Johann Genser
 Structure and mode of exhumation of subduction channels in continent-continent and island arc-continent collisional orogens
- XL317 EGU2011-12929
José Alberto Padrón-Navarta, Andréa Tommasi, Carlos J. Garrido, Vicente López Sánchez-Vizcaíno, and María Teresa Gómez-Pugnaire
 Plastic deformation and development of antigorite crystal preferred orientation in serpentinite
- XL318 EGU2011-13473
Tommaso Giovanardi, Alberto Zanetti, Maurizio Mazzucchelli, Massimo Tiepolo, and Riccardo Vannucci
 Insights into the geodynamic evolution of the Finero mafic-ultramafic sequence (Southern Alps)
- XL319 EGU2011-1245
 Bruno Reynard, **Lucile Bezacier**, Jay Bass, Junichi Nakajima, and Hitoshi Kawakatsu
 Where is serpentinite in subduction? ... And where it is not.
- XL320 EGU2011-9304
Sven Wortelkamp, Stephan Klemme, Timm John, and Jasper Berndt
 Trace Element Mobility in Subduction Zone Fluids. An Experimental Study.
- XL321 EGU2011-2710
Marco Scambelluri and Sonia Tonarini
 The boron isotope composition of high-pressure subducted serpentinites: constraints on tectonic setting and implications for arc magmatism
- XL322 EGU2011-4722
Kurt Bucher
 Subduction zone hydration
- XL323 EGU2011-5275
Hiroshi Sato, Susumu Abe, Takaya Iwasaki, Eiji Kurashimo, David Okaya, Taku Kawanaka, and Naoshi Hirata
 Characterization of the upper surface of the Philippine Sea plate beneath Kanto, central Japan, revealed by seismic reflection profiling
- XL324 EGU2011-8072
Awan Gunawan, Frederik Tilmann, Dietrich Lange, Rachel Collings, Andreas Rietbrock, Danny Natawidjaja, and Sri Widiyantoro
 Moho Depth Estimation beneath Sumatera and Mentawai Islands Using Receiver Functions Recorded with a Temporary Array

- XL325 EGU2011-9122
Dietrich Lange, Rachel Collings, Frederik Tilmann, Andreas Rietbrock, Danny Natawidjaja, Jeremy Pesicek, Bambang Suwargadi, and Tim Henstock
 The Structure of the West Sumatran Subduction Zone Revealed by Local Earthquake Travel Time Tomography
- XL326 EGU2011-12432
Adrià Meléndez, Manel Prada, Valentí Sallarès, César Ranero, Kirk McIntosh, and Ingo Grevemeyer
 1992 Nicaragua tsunamigenic slow earthquake: Geophysical constraints from seismic modelling
- XL327 EGU2011-5497
Peng Han, Katsumi Hattori, Hisashi Ishikawa, Takuya Hirano, Yuki Ishiguro, and Chie Yoshino
 ULF electromagnetic phenomena possibly related to the 2002 and the 2007 slow slip events in Boso Peninsula, Japan
- XL328 EGU2011-10014
Mathilde Radiguet, Erwan Pathier, Guillaume Bacques, Michel Campillo, Nathalie Cotte, Fabrice Cotton, Vladimir Kostoglodov, Mathilde Vergnolle, and Andrea Walpersdorf
 Coupling and kinematic properties of slow slip events in the Guerrero Gap, Mexico.
- XL329 EGU2011-10001
Ylona van Dinther, Taras V. Gerya, Luis A. Dalguer, P. Martin Mai, and Gabriele Morra
 The long-term seismic cycle in geodynamic, numerical simulations of a subduction zone
- XL330 EGU2011-8094
Katharina Vogt, Taras Gerya, and Antonio Castro
 Numerical modeling of crustal growth at active continental margins
- XL331 EGU2011-6581
ganzhorn anne-céline, labrousse loic, and prouteau gaelle
 Rheological impact of partial melting on the subducting continental crust
- XL332 EGU2011-8615
Diane Arcay, Marie-Pierre Doin, Emmanuel Tric, and Romain Bousquet
 Thermal structure of arc lithosphere in subduction zones: Plate thinning by small-scale convection enhanced in a wet mantle wedge

TS6.8/GD5.8/GM5.9 – Pamir: a natural laboratory to understand intra-continental subduction. (co-organized) – Orals

Convener: Richard Gloaguen | Co-Conveners: Lothar Ratschbacher

Room: 26

Chairperson: Richard Gloaguen and Adam Szulc

- 08:30–08:45 EGU2011-9980
Yann Rolland, Michel Corsini, Dimitiy Alexeiev, Alfred Kroener, and Yamirka Rojas-Agramonte
 Timing and style of tectonic events, crustal-scale structure, in the Central Asian Orogenic Belt (Kyrgyzstan)
- 08:45–09:00 EGU2011-8489
Bradley Hacker, Lothar Ratschbacher, Michael Stearns, Jennifer McGraw, Stübner Konstanze, Andrew Kylander-Clark, Jörg Pfänder, Carsten Weise, Vladislav Minaev, Mustafo Gadoev and the Ilhomjon Oimahmadoc (4) and the TIPAGE Team
 Widespread, Synchronous, Large-Magnitude Exhumation of the Deep Pamir
- 09:00–09:15 EGU2011-7033
Edward R. Sobel, Lindsay M. Schoenbohm, Jie Chen, Rasmus Thiede, Daniel F. Stockli, Masafumi Sudo, and Manfred R. Strecker
 Late Miocene - Pliocene deceleration of dextral slip between Pamir and Tarim: Implications for Pamir orogenesis
- 09:15–09:30 EGU2011-4822
Bernd Schurr, Xiaohui Yuan, Felix Schneider, Christian Sippl, James Mechie, Vlad Minaev, Ulan Abdybachaev, Ilhomjon Oimahmadov, Mustafo Gadoev, and Sobit Negmatullaev
 Seismicity and lithospheric structure in the Pamir - Hindu Kush - Tien Shan region from TIPAGE seismological data
- 09:30–09:45 EGU2011-8944
Violaine Vignon, Anne Replumaz, Stéphane Guillot, and Ana Negrodo
 Geometry, timing and consequences of subduction processes in the Pamir and Hindu Kush regions
- 09:45–10:00 EGU2011-13627
Stephan Sobolev and Jens Tympel
 Models of orogeny in Tibet and Pamir

TS6.8/GD5.8/GM5.9 – Pamir: a natural laboratory to understand intra-continental subduction. (co-organized) – Posters

Convener: Richard Gloaguen | Co-Conveners: Lothar Ratschbacher

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Bernd Schurr and Adam Szulc

- XL333 EGU2011-726
Margret Fuchs, Richard Gloaguen, Matthias Krbetschek, and Adam Szulc
 OSL dating for incision rate estimation in Pamir
- XL334 EGU2011-521
Adam Szulc, Lothar Ratschbacher, and Richard Gloaguen
 Detrital geo/thermochronology of Tajik Depression sediments
- XL335 EGU2011-4846
Claudia Krumbiegel, Bernd Schurr, Sagynbek Orunbaev, He Rui, Liu Pingren and the TIPAGE Team
 The 05/10/2008 Mw 6.7 Nura earthquake sequence on the Main Pamir Thrust
- XL336 EGU2011-6114
Richard Gloaguen, Lothar Ratschbacher, Margret Fuchs, Matthias Krbetschek, Vlad Minaev, Ilhomjon Oimahmadov, Mustafo Gadoev, and Negmat Rasshabov
 Neotectonics of the Pamir.
- XL337 EGU2011-6535
Felix Schneider, Xiaohui Yuan, Christian Sippl, Bernd Schurr, James Mechie, Christian Haberland, Mustafo Gadoev, Ilhomjon Oimahmadov, Ulan Abdybachaev, and Sobit Negmatullaev
 A cross section through the eastern Pamir and Tien Shan obtained by teleseismic receiver functions
- XL338 EGU2011-8039
Christian Sippl, Bernd Schurr, Felix Schneider, Xiaohui Yuan, James Mechie, Christian Haberland, Sagynbek Orunbaev, Mustafo Gadoev, Ilhomjon Oimahmadov, and Sobit Negmatullaev
 Analysis of local seismicity in the Pamir-Tien Shan-Hindu Kush region, central Asia
- XL339 EGU2011-8624
Paul Sass, Oliver Ritter, Gerard Muñoz, Anatolii Rybin, and Vladislav Batalev
 Magnetotelluric data analysis from the continental collision zone in the Pamir and Tien Shan, Central Asia
- XL340 EGU2011-8804
Jens Tynpel and Stephan Sobolev
 First results of 2D Thermo-mechanical modelling of Cenozoic lithospheric deformation in the Himalaya-Tibet-Pamir-Tien Shan orogen
- XL341 EGU2011-9247
Sarah Schröder and Andrey Babeyko
 Developing Surface Processes Model for the Pamir-Tien Shan Region
- XL342 EGU2011-9849
 Richard Gloaguen and **Mehdi Rahnema**
 The Shahrud-Doruneh-Herat-Chaman fault system and its prolongation in Pamir
- XL343 EGU2011-9792
 Richard Gloaguen, **Pohl Eric**, Stephan Weise, Stefan Geier, Tino Rödiger, Christian Siebert, Jamila Baidulloeva, and Malte Knoche
 Hydrological modelling of the Gunt (Western Pamir) using remote sensing data
- XL344 EGU2011-10487
 Thomas Voigt, **Jonas Kley**, Nadine Seib, and Martin Kober
 Tectonic and sedimentary evolution of the Ili Basin (northern Tien Shan, Kazakhstan)
- XL345 EGU2011-5043
Rasmus Thiede, Edward Sobel, Schoenbohm Lindsay, Jie Chen, and Daniel Stockli
 Shift in Temporal Pattern of Dome Formation and Extension of the NE-Pamir Plateau
- XL346 EGU2011-4243
Lukasz Gagala, Lothar Ratschbacher, Jean-Claude Ringenbach, Blanka Sperner, Richard Gloaguen, Alexandra Kässner, Arief Wijaya, Negmat Rajabov, and Vladislav Minaev
 Tajik Basin: structure and kinematics of an external fold-and-thrust belt of the Pamir revealed by cross-section balancing
- XL347 EGU2011-440
Alexandra Kaessner, Benita-Lisette Sonntag, Lukasz Gagala, Richard Gloaguen, and Lothar Ratschbacher
 Cenozoic tectonic evolution of the Pamir-Tien Shan system: Evidence from thermochronology, provenance analysis, and tectonic geomorphology in the Tajik depression and its margins
- XL348 EGU2011-794
Daniel Rutte, Ratschbacher Lothar, and Hacker Bradley
 Cenozoic structure of the Central Pamir
- XL349 EGU2011-2497
James Mechie, Xiaohui Yuan, Bernd Schurr, Felix Schneider, Christian Sippl, Vlad Minaev, Mustafo Gadoev, Ilhomjon Oimahmadov, Ulan Abdybachaev, Bolot Moldobekov and the Sagynbek Orunbaev (3), Sobit Negmatullaev (4) Team
 Project TIPAGE wide-angle seismic data reveals the crustal structure along a profile across the Pamir and southern Tien Shan.

- XL350 EGU2011-5091
Ines Roehringer, Uwe Abramowski, Roland Zech, Piotr Sosin, Ala Aldahan, Silke Merchel, Peter Kubik, Ludwig Zoeller, and Wolfgang Zech
 Timing and paleoclimate forcings of Late Quaternary glaciations in the Pamir Mountains: 10Be surface exposure dating of glacial landforms
- XL351 EGU2011-8993
Matthias Franz, Ralf Dedow, Jan Brückner, Jörg Schneider, Adam Szulc, Benita-Lisette Sonntag, Lothar Ratschbacher, Martin Klocke, Negmat Rajabov, and Vladislav Minaev
 The eastern Tajik basin: Late Cretaceous to Neogene basin evolution and exhumation of the Pamir
- XL352 EGU2011-9992
Konstanze Stübner, Lothar Ratschbacher, Carsten Weise, Jörg Pfänder, Richard Gloaguen, Bradley Hacker, István Dunkl, Raymond Jonckheere, Klaus Stanek, and Vladislav Minaev
 Miocene gneiss domes and syn-orogenic extension in the Pamir

ML11 – Augustus Love Medal Lecture by Bradford Hager (co-listed) – Orals

Convener: J. Huw Davies

Room: 30

Chairperson: J. Huw Davies

- 19:00–20:00 EGU2011-14171
Bradford Hager, Ming Fang, Xinhao Liao, and Yonghong Zhou
 How the Chandler Wobble is excited by rapid variations in the angular momentum of the fluid Earth
 (Augustus Love Medal Lecture)

SM3.4/TS1.7 – Noise Interferometry: What can we learn from noise ? (co-listed) – Orals

Convener: Antonio Villaseñor | Co-Conveners: Florent Brenguier, Laurent Stehly, Martin Schimmel

Room: 27

Chairperson: n.n.

- 08:30–08:45 EGU2011-2870
Christoph Sens-Schönfelder and Eric Larose
 Properties of the Lunar Noise and its Correlations
- 08:45–09:00 EGU2011-9260
Andrew Curtis
 Source-Receiver Interferometry
- 09:00–09:15 EGU2011-5629
Shiro Ohmi and Kazuro Hirahara
 Detecting Subsurface Reflections in the Kinki District, Southwestern Japan, Using Ambient Seismic Noise
- 09:15–09:30 EGU2011-9667
Keith Koper
 Using Arrays to Characterize and Locate Sources of Short Period Seismic Noise
- 09:30–09:45 EGU2011-3762
Éléonore Stutzmann, Martin Schimmel, Fabrice Ardhuin, and Anne Mangeney
 Observing and modeling microseism source distribution
- 09:45–10:00 EGU2011-2702
Lucia Zaccarelli, Nikolai Shapiro, Licia Faenza, Gaia Soldati, and Alberto Michelini
 Co-seismic velocity changes during the 2009, Mw 6.3 L'Aquila earthquake inferred from seismic noise cross-correlations
- 10:00–10:15 EGU2011-9970
 Guénolé Mainsant, **Eric Larose**, Denis Jongmans, Clément Michoud, Cornélia Brönnimann, Laurent Baillet, and Michel Jaboyedoff
 Weather and anthropogenic [1-20 Hz] seismic noise correlations as an indicator for landslide precursor

Wednesday, 06 April

SM1.8/G3.7/GD1.10/NH4.9/TS8.4 – Recent Large Earthquake and Tsunami Activity (co-organized) – Orals

Convener: Ramon Carbonell | Co-Conveners: Fabrizio Storti, Stefano Tinti, Mourad Bezzeghoud

Room: 26

Chairperson: n.n.

- 15:30–15:45 EGU2011-304
narges khajavi, mark quigley, kevin furlong, amir rezanejad, and tim davies
 Ground-Motion Intensity Inferred From Upthrow of Boulders and Rock Falls during the 2010 Darfield Earthquake, Port Hills, New Zealand
- 15:45–16:00 EGU2011-2252
Ingo Grevenmeyer, Ernst Flueh, Ivonne Arroyo, and Anke Dannowski
 Rupture zone of the Mw=8.8 2010 Maule earthquake constrained by aftershock seismicity and teleseismic moment tensor inversion of large aftershocks
- 16:00–16:15 EGU2011-4356
 Kazuki Koketsu, Yusuke Yokota, Yasuyuki Kawazoe, Sunhe Yun, and **Satoko Oki**
 Source process of the 2010 Yushu, China, earthquake in the eastern Tibetan plateau
- 16:15–16:30 EGU2011-8350
Stefano Lorito, Fabrizio Romano, Simone Atzori, Xiaopeng Tong, Antonio Avallone, John McCloskey, Massimo Cocco, Enzo Boschi, and Alessio Piatanesi
 Limited overlap between the Darwin gap and co-seismic slip of the great 2010 Chile earthquake
- 16:30–16:45 EGU2011-9398
Jimin Lee, Wolfgang Friederich, and Thomas Meier
 Moment magnitude estimation of large earthquakes using source time function inversion in real-time
- 16:45–17:00 EGU2011-9512
Hermann M. Fritz, Jose C. Borrero, Bambang Suwargadi, Li LinLin, Qiu Qiang, Ignatius Ryan Pranantyo, Vassilis Skanavis, and Costas E. Synolakis
 Reconnaissance of the 25 October 2010 Mentawai Islands Tsunami in Indonesia
- 17:00–17:15 EGU2011-12772
Costas E. Synolakis, Hermann M. Fritz, Catherine M. Petroff, Robert Weiss, Patricio A. Catalan, Rodrigo Cienfuegos, Patricio Winckler, Nikos Kalligeris, Carl Ebeling, and Sergio Barrientos
 The Chile tsunami of 27 February 2010: Field survey and modeling

SM1.8/G3.7/GD1.10/NH4.9/TS8.4 – Recent Large Earthquake and Tsunami Activity (co-organized) – Posters

Convener: Ramon Carbonell | Co-Conveners: Fabrizio Storti, Stefano Tinti, Mourad Bezzeghoud

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY661 EGU2011-13095
 Dietrich Lange, **Frederik Tilmann**, Susan Beck, Andreas Rietbrock, Jean-Pierre Vilotte, Sergio Barrientos, Diana Comte, Klaus Bataille, Pascal Methe and the Chile Aftershocks Team
 Preliminary aftershock distributions of the 27 February 2010 Mw 8.8 Maule Earthquake from International Aftershock Survey data
- XY662 EGU2011-1826
Wen-Yen Chang, Ruey-Der Hwang, Tzu-Wei Lin, Jo-Pan Chang, and Hui-Nei Chuang
 Estimates of Source Parameters of the 2010 ML 6.4 JiaSian (Taiwan) Earthquake from Teleseismic P-wave Inversion
- XY663 EGU2011-2576
Yunus Emre Bulbul, Barbaros Cetiner, and Gülüm Tanrıcan
 Source Modelling of the 2010 Elazig / Turkey Earthquake
- XY664 EGU2011-2838
Won Young Yun and Sun-Cheon Park
 Early estimation of magnitude and moment tensor analysis of large regional earthquakes around the Korean peninsula
- XY665 EGU2011-2958
Yesim Cubuk, Seda Yolsal-Cevikbilen, and Tuncay Taymaz
 Source Parameters of March 8, 2010 Karakocan (Elazig, SE Turkey) Earthquakes: Synthesis of Time Domain Regional Moment Tensor and Teleseismic Body-Waves Inversions

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

Room: 22

Chairperson: n.n.

- 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, Vasily 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

GD2.4/SM4.1/TS10.2 – The Lithosphere-Asthenosphere Boundary (LAB) Dilemma (co-organized) – Orals

Convener: Ulrich Achauer | Co-Conveners: Rainer Kind, Valentin Mikhailov, Alan G. Jones, Jaroslava Plomerova, Stefan Jung

Room: 22

Chairperson: n.n.

08:30–09:00 EGU2011-7672

David Eaton, Ian Bastow, Michael Kendall, and Claire Perry

Isopycnicity, Thermal State and Secular Evolution of Cratonic Mantle Keels

- 09:00–09:15 EGU2011-9203
Ulrich Faul, Colleen Dalton, and Ian Jackson
 Lithospheric Structure from Combined Seismological and Experimental Models
- 09:15–09:45 EGU2011-12710
Toivo Korja
 Fennoscandian lithosphere-asthenosphere boundary - electromagnetic constraints
- 09:45–10:00 EGU2011-12312
Jan Vozar, Javier Fullea, and Alan G. Jones
 Electromagnetic and petro-physical investigations of the lithosphere-asthenosphere boundary in Tibet and Central Europe

GD2.4/SM4.1/TS10.2 – The Lithosphere-Asthenosphere Boundary (LAB) Dilemma (co-organized) – Posters

Convener: Ulrich Achauer | Co-Conveners: Rainer Kind, Valentin Mikhailov, Alan G. Jones, Jaroslava Plomerova, Stefan Jung

Hall A | Display Time 08:00–19:30

Author in Attendance: 15:30–17:00

Chairperson: Ulrich Achauer

- A67 EGU2011-6937
Edward Perchuc, Monika Dec, Michal Malinowski, and Blanka Nita
 Significant differences between upper mantle models for tectonically active and stable part of North America
- A68 EGU2011-766
Ozcan Cakir and Murat Erduran
 P and S receiver functions used for inverting the one-dimensional upper mantle shear-wave velocities beneath Anatolian Peninsula
- A69 EGU2011-5071
Mohammad Yousof, Alan Levander, Max Bezada, and Hans Thybo
 Structure and extent of the southern African cratons: Integrated images from receiver functions and teleseismic tomography
- A70 EGU2011-4739
Mark Muller, Javier Fullea, and Alan Jones
 Reconciling Electromagnetic, Seismic and Xenolith Constraints on Lithospheric Thickness and Composition of the Kaapvaal Craton, South Africa
- A71 EGU2011-8787
 Javier Fullea, **Mark Muller**, Alan Jones, Juan Carlos Afonso, and Sergio Zlotnik
 Imaging the lithosphere-asthenosphere boundary of southern Africa integrating elevation, surface heat flow, magnetotelluric and petrological data
- A72 EGU2011-7739
Britta Wawerzinek and Joachim Ritter
 Teleseismic S Receiver Function Analysis in Southern Norway
- A73 EGU2011-9464
Wolfram Geissler, Horst Kämpf, Zuzana Skácelová, Jaroslava Plomerová, Vladislav Babuška, and Rainer Kind
 Lithosphere structure of the NE Bohemian Massif (Sudetes) - A teleseismic receiver function study
- A74 EGU2011-2410
Jaroslava Plomerova and Vladislav Babuska
 European LAB constrained from seismic anisotropy
- A75 EGU2011-13072
Nicola Piana Agostinetti and Meghan Miller
 The Lithosphere-Asthenosphere Boundary beneath Italy from S receiver function analysis
- A76 EGU2011-13358
Jan-Philipp Schmoldt, Alan G. Jones, Javier Fullea, Mark Muller, Colin Hogg, and Oriol Rosell Novel
 Magnetotelluric investigation of the lithosphere-asthenosphere boundary beneath the Tajo Basin contrasted with results from seismic and thermal modelling studies - Results of the PICASSO Phase I project in the Iberian Peninsula
- A77 EGU2011-8114
David Khoza, Alan Jones, Mark Muller, Sue Webb, and Marion Miensopust
 The electrical lithosphere in Archean cratons
- A78 EGU2011-11541
Gael Burgos, Jean-Paul Montagner, Eric Beucler, Jeannot Trampert, Michael H Ritzwoller, Yann Capdeville, and Nikolai Shapiro
 Global mapping of Lithosphere Asthenosphere Boundary from surface wave tomography
- A79 EGU2011-1996
 Lucas Moreira and **Michael Friedel**
 Joint inversion of receiver function, surface wave dispersion, and magnetotelluric data for 2D crustal modeling

- A80 EGU2011-11683
Eric Mandolesi and Alan G. Jones
 New constraints in magnetotelluric inversion.
- A81 EGU2011-5507
Valiya Hamza and Roberto Cardoso
 Finite Half Space Model: Implications for the dilemma of the Lithosphere - Asthenosphere Boundary
- A82 EGU2011-1677
Irina Artemieva
 TBL, RBL, and CBL vs LAB: physics vs semantics
- A83 EGU2011-2395
Nina S. C. Simon
 A phase change model for (one of) the LAB(s)

G3.1/GD2.6/GMPV29 – Glacial Isostatic Adjustment on regional scales: Modeling and observations (co-organized) –

Orals

Convener: Volker Klemann | Co-Conveners: Markku Poutanen, Bert Vermeersen, Thomas James

Room: 17

Chairperson: Markku Poutanen; Volker Klemann

- 13:30–13:45 EGU2011-4262
Patrick Wu, Holger Steffen, and Hansheng Wang
 Accuracy and sensitivity of GIA data in the study of the role of thermal effect on seismic anomalies in the mantle
- 13:45–14:00 EGU2011-10906
Paolo Stocchi, Roderik van de Wal, Bert L.L.A. Vermeersen, and Wouter van der Wal
 A Late Pleistocene ice-sheet model for Scandinavia: combining surface geological evidences and non-linear plastic and viscoplastic ice rheologies
- 14:00–14:15 EGU2011-9995
Wouter Van der Wal, Paolo Stocchi, Auke Barnhoorn, Patrick Wu, Martyn Drury, and Bert Vermeersen
 GIA model with non-linear 3D Earth rheology and viscoplastic ice model for Scandinavia
- 14:15–14:30 EGU2011-12359
 Rosemarie Drummond and **W. Richard Peltier**
 Glacial isostatic Adjustment in Fennoscandia and GRACE
- 14:30–14:45 EGU2011-9111
Peter Schmidt, Björn Lund, Thóra Árnadóttir, and Harro Schmeling
 Putting global warming to use in accessing the 3D viscosity structure of the uppermost mantle beneath Iceland
- 14:45–15:00 EGU2011-9062
Pippa Whitehouse, Mike Bentley, Anne Le Brocq, Glenn Milne, Matt King, and Ian Thomas
 A new Glacial Isostatic Adjustment model for Antarctica

G3.1/GD2.6/GMPV29 – Glacial Isostatic Adjustment on regional scales: Modeling and observations (co-organized) –

Posters

Convener: Volker Klemann | Co-Conveners: Markku Poutanen, Bert Vermeersen, Thomas James

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Volker Klemann; Markku Poutanen

- XY273 EGU2011-505
Holger Steffen, Patrick Wu, and Hansheng Wang
 Optimal locations for absolute gravity measurements and sensitivity of GRACE observations for constraining glacial isostatic adjustment on the northern hemisphere
- XY274 EGU2011-4801
Volker Klemann, Jan M. Hagedoorn, and Zdenek Martinec
 Refinement of palaeotopography in modelling of glacial isostatic adjustment
- XY275 EGU2011-13877
Volker Klemann, Sven Schulte, Thomas S. James, Arthur S. Dyke, Robert Kung, Doris Dransch, and Detlef Wolf
 Towards an online database for relative sea-level indicators: storage and visualization
- XY276 EGU2011-12587
Jaakko Mäkinen, Marcin Sekowski, Jan Krynski, Jyri Näränen, Arttu Raja-Halli, Hannu Ruotsalainen, and Heikki Virtanen
 Gravity change in Finland 1962-2010 from the comparison of legacy relative measurements with new measurements made with the outdoor absolute gravimeter A10

- XY277 EGU2011-4971
Willy Fjeldskaar and Aleksey Amantov
A possible tectonic component in the Fennoscandian post-glacial uplift
- XY278 EGU2011-7036
Ove Christian Dahl Omang and Halfdan Pascal Kierulf
Changes in present day ice melting observed by GPS and Superconducting Gravimeter at Svalbard, Norway
- XY279 EGU2011-5761
Valentina R. Barletta and Riccardo E.M. Riva
High resolution Post Glacial Rebound over the European Alps
- XY280 EGU2011-6714
Christof Völksen and Christian Gerlach
A Testbed for Monitoring Crustal Deformation and Gravity Changes Caused by Alpine Glaciers
- XY281 EGU2011-9294
Gabriella Ruggieri, Louise Sophie Sorensen, and Giorgio Spada
Recent uplift of Greenland from ICESat observations and GIA modelling
- XY282 EGU2011-13162
Anneleen Oyen and Andy Hooper
The challenges of studying uplift rates in polar regions by means of InSAR
- XY283 EGU2011-12220
Ian Thomas, Matt King, and Eugene Domack
A new GPS derived data set of uplift rates in the Antarctic Peninsula

SM4.2/GD2.11/GMPV49/TS10.6 – Thermal, chemical, and rheological boundary layers: How do they relate to each other? (co-organized) – Orals

Convener: Irina Artemieva | Co-Conveners: Nicholas T. Arndt, Lev Vinnik

Room: 26

Chairperson: Lev Vinnik, Irina Artemieva, Nick Arndt

- 10:30–10:45 EGU2011-5876
Evgueni Burov, Anthony Watts, and Thomas Francois
Mechanical thickness of the lithosphere and its relation to its seismic, rheological and thermal structure
- 10:45–11:00 EGU2011-12700
Frederik J. Simons, Sofia C. Olhede, and Dong V. Wang
Mechanical Thickness of the Continents Worldwide: A Re-Analysis
- 11:00–11:15 EGU2011-12784
Joanne Adam and Sergei Lebedev
Layering of seismic anisotropy and deformation beneath South Africa from the upper crust to the asthenosphere
- 11:15–11:30 EGU2011-11064
Lev Vinnik, Sergei Oreshin, Sergei Kiselev, Shyam Rai, Kudumu Suryaprakasam, and Alexandr Treussov
The Indian shield from the upper crust to the lower mantle: boundary layers and the fast drift
- 11:30–11:45 EGU2011-8723
Alan Levander and Meghan S. Miller
Evolutionary Aspects of Lithosphere Discontinuity Structure in the Western U.S.
- 11:45–12:00 EGU2011-13208
Stephan Sobolev and Alexander Sobolev
How to destroy thick cratonic lithosphere?

SM4.2/GD2.11/GMPV49/TS10.6 – Thermal, chemical, and rheological boundary layers: How do they relate to each other? (co-organized) – Posters

Convener: Irina Artemieva | Co-Conveners: Nicholas T. Arndt, Lev Vinnik

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY713 EGU2011-610
Hatice Yeziz, Nurdan Sayin, and Zeynep Ozbey
Thermal Structure of Continental Crust in Central Anatolia
- XY714 EGU2011-1676
Irina Artemieva
Boundary layers in the continental upper mantle constrained by geophysical data

SM3.5/GD2.13/TS8.5 – Active seismic investigations of the Earth's crust (co-organized) – Orals

Convener: Alireza Malehmir | Co-Conveners: Stefan Buske

Room: 27

Chairperson: Alireza Malehmir

- 15:30–15:45 EGU2011-5264
Hiroshi Sato, Susumu Abe, Nobuo Kawai, Naoko Kato, Hideo Saito, Kazuya Shiraishi, Tatsuya Ishiyama, Takaya Iwasaki, Eiji Kurashimo, and Mitsuru Inaba
 Imaging of the seismogenic source fault in the fold-and-thrust belt, Niigata back-arc basin, central Japan
- 15:45–16:00 EGU2011-5031
Emil Lundberg, Alireza Malehmir, Magnus Andersson, and Christopher Juhlin
 Reflection seismic investigations and integration with geological and geophysical data in the Bergslagen Ore District, Sweden
- 16:00–16:15 EGU2011-2210
 Stine Gutjahr and **Stefan Buske**
 Seismic images of the tremor region at the San-Andreas-Fault system around Cholame
- 16:15–16:30 EGU2011-2192
Michal Malinowski, Stephane Operto, and Alessandra Ribodetti
 Seismic attenuation imaging from full-waveform inversion: an onshore case study
- 16:30–16:45 EGU2011-2539
Bohuslav Ruzek
 Joint inversion of gravity data together with Pg traveltimes from shots and Pg/Sg onsets from earthquakes in the Western Bohemia/Vogtland swarm region
- 16:45–17:00 EGU2011-2228
Rafael Bartolomé, Juanjo Dañobeitia, François Michaud, Diego Cordoba, Luis A. Delgado-Argote, and Francisco Núñez-Cornú
 Seismic crustal structure of the Rivera subduction zone (western Mexican margin) between 19°N and 21°N

SM3.5/GD2.13/TS8.5 – Active seismic investigations of the Earth's crust (co-organized) – Posters

Convener: Alireza Malehmir | Co-Conveners: Stefan Buske

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Stefan Buske

- XY674 EGU2011-140
Sagynbek Orunbaev, Ulan Abdybachaev, Christian Haberland, Zoya Kalmetyeva, James Mechie, Aleksandr Meleshko, Bolot Moldobekov, Vitaliy Bragin, Bernd Schurr, and Sheyshenaly Usupaev
 Active seismic investigation of December 22, 2009 detonation at Kambarata (Kyrgyzstan) site for a dam fill construction
- XY675 EGU2011-982
Ramin Kiamehr and Noshin Faegh
 Calibration of the Gravimetric Crustal Depth Model in Iran Based on the Sparse Seismologic Data
- XY676 EGU2011-3304
Elham Mohammadi, Forough Sodoudi, and Ahmad Sadidkhouy
 A Receiver Function Study in Kope-Dagh (Iran) Using Short Period Data
- XY677 EGU2011-1414
Benjamin Loidl, Michael Behm, and Hans Thybo
 Application of stacking techniques to 3-D wide-angle reflection and refraction data from Southern Norway
- XY678 EGU2011-2521
Peter Hedin, Christopher Juhlin, and Alireza Malehmir
 Reflection seismic investigations of the Scandinavian Caledonides to help unravel its orogenic history
- XY679 EGU2011-6966
Piotr Sroda
 Models of the seismic crustal anisotropy beneath the East European Craton and adjacent Palaeozoic terranes in Southern Poland - results of 3-D tomographic inversion
- XY680 EGU2011-4967
Fatemeh Sharifi Brojerdi, Christopher Juhlin, Alireza Malehmir, and Mahdieh Dehghannejad
 Reflection seismic studies in the Forsmark site, central Sweden
- XY681 EGU2011-11371
Stephan Steuer, Dimitri Savva, Florian Meresse, Dieter Franke, Manuel Pubellier, and Benoit Mouly
 Offshore-onshore correlation across Palawan Island, Philippines
- XY682 EGU2011-11142
Reza Entezari and Hamidreza Ramazi
 Low Velocity Layer Survey in 3D Seismic Acquisitions (In an oil field, Iran)

- XY683 EGU2011-10519
Pavla Hrubcova and Piotr Sroda
 From the Variscan to the Alpine Orogeny: crustal structure at the contact of the Bohemian Massif and the Western Carpathians in the light of seismic refraction data
- XY684 EGU2011-2827
Byoung Yeop Kim, Ho Young Lee, Young Jun Kim, Nam Hyung Koo, and Dong Geun Yoo
 2-D Crustal Structure Model of the Southwestern Margin of the East Sea from Wide-angle Seismic Data
- XY685 EGU2011-346
Morvarid Saki, Gholam J. Doloei, and Ahmad Sadidkhouy
 On the Seismic Wave Anisotropy in the Upper Crust of Bam Area in South Eastern Iran
- XY686 EGU2011-4005
Naoko Kato, Hiroshi Sato, Susumu Abe, Tatsuya Ishiyama, and Shin Koshiya
 Development of active folding in the back-arc thrust belt, eastern part of the Niigata Basin, central Japan
- XY687 EGU2011-6630
Mariusz Majdanski
 3D crustal structure of central Europe by Kriging interpolation of models along wide-angle refraction profiles.
- XY688 EGU2011-8506
Soazig Simon, Jean-Xavier Dessa, Marie-Odile Beslier, Anne Deschamps, Nicole Béthoux, Stefano Solarino, Elena Eva, Françoise Sage, Gabriele Ferretti, and Claudio Eva
 3D Crustal Analysis of the North-Ligurian Margin from Refraction Tomography and Microseismic Monitoring
- XY689 EGU2011-221
Fengjiao Zhang and Christopher Juhlin
 Fracture zones or mafic sills: modeling and inversion using seismic waveform tomography at the Forsmark nuclear waste repository, eastern central Sweden.
- XY690 EGU2011-216
Magnus Andersson, Alireza Malehmir, and Lutz Kübler
 Reflection seismic and potential field studies of the Alnö alkaline and carbonatite complex - preliminary results
- XY691 EGU2011-261
Saeid Cheraghi, Alireza Malehmir, and Gilles Bellefleur
 Reflection seismic profiling and its correlation with surface geological observations in the Brunswick No. 6 area, Bathurst Mining Camp, New Brunswick, Canada
- XY692 EGU2011-9109
Suvi Heinonen, Marcello Imaña, Timo Mäki, Pekka Heikkinen, and Ilmo Kukkonen
 Reflection seismics for structural 3D modeling of Pyhäsalmi mining area
- XY693 EGU2011-10775
Antonio Pazos, Diana Núñez, Diego Córdoba, José Martín Davila, Andrés Carbó, José Luis Granja, and Pilar Llanes
 Crust and upper mantle structure across the Beata Ridge (Hispaniola Island) from a wide angle seismic profile.
- XY694 EGU2011-5285
Tae-Kyung Hong, Hoseon Choi, Xiaobo He, Kiwook Lee, Dong Geun Ji, and Eunyoung Jo
 Crustal structure and seismicity of the far-eastern Eurasian continental margin around the Korean Peninsula

GD3.2/GI-16/SM3.9 – Exploring crust and mantle under the oceans: innovative instrumentation, processing and interpretation of ocean-bottom data (co-organized) – Orals

Convener: Wolfram Geissler | Co-Conveners: Marion Jegen, Hisashi Utada, Karin Sigloch, Daisuke Suetsugu

Room: 22

Chairperson: Daisuke Suetsugu, Wolfram Geissler

- 10:30–10:45 EGU2011-5307
Kiyoshi Baba, Hisashi Utada, and Natsue Abe
 Electrical conductivity of old oceanic mantle beneath the northwestern Pacific revealed from seafloor magnetotelluric observations
- 10:45–11:00 EGU2011-9998
Marion Jegen, Tamara Worzewski, Heidrun Kopp, Heinrich Brasse, and Waldo Taylor
 Magnetotelluric Image of the Fluid Cycle in the Costa Rican Subduction Zone
- 11:00–11:15 EGU2011-2821
Yoshihiro Ito, Ryota Hino, Hiromi Fujimot, Daisuke Inazu, Yukihiro Osada, Satoshi Miura, Naoki Uchida, Mako Ohzono, Takeshi Tsuji, Juichiro Ashi and the Tohoku University Team
 Transient slow slip event revealed from ocean-bottom seismic and geodetic observations in the Japan Trench
- 11:15–11:30 EGU2011-7871
Thomas Spenkuch, Nicholas Harmon, and Stephen Turnock
 Understanding current induced noise on broadband ocean bottom seismometers using Computational Fluid Dynamics

11:30–11:45 EGU2011-5277

Jon Berger, John Orcutt, Neil Trenaman, Tim Richardson, and Gabi Laske

An autonomously deployed, deep-ocean, broadband seismic network

11:45–12:00 EGU2011-1840

Daisuke Suetsugu, Hajime Shiobara, Tatehi Isse, Hiroko Sugioka, Aki Ito, Kiyoshi Baba, Takafumi

Kasaya, Noriko Tada, Dominique Reymond, and Jean-Pierre Barriot

Ocean bottom geophysical observation on the seafloor near the Society hot spot, French Polynesia

GD3.2/GI-16/SM3.9 – Exploring crust and mantle under the oceans: innovative instrumentation, processing and interpretation of ocean-bottom data (co-organized) – Posters

Convener: Wolfram Geissler | Co-Conveners: Marion Jegen, Hisashi Utada, Karin Sigloch, Daisuke Suetsugu

Hall A | Display Time 08:00–19:30

Author in Attendance: 15:30–17:00

Chairperson: Marion Jegen, Karin Sigloch

A84 EGU2011-2001

Ryota Hino and the Miyagi-Oki Earthquake Research Team

Continuous offshore seismological and geodetic monitoring in a M 7.5-class megathrust earthquake rupture zone, northeastern Japan forearc

A85 EGU2011-5263

Kimihiko Mochizuki, Kazuo Nakahigashi, Tomoaki Yamada, Masanao Shinohara, Shin'ichi Sakai, Toshihiko Kanazawa, Kenji Uehira, and Hiroshi Shimizu

Crustal structure and segmentation of seismicity around the fault boundary of historical great earthquakes along the Nankai Trough, SW Japan, revealed by long-term ocean bottom seismic observation

A86 EGU2011-12714

Frank Krüger and Johannes Schweitzer

First results regarding the lithosphere and mantle structure of the oceanic plate between Mohns ridge and the Barents shelf from broadband OBS recordings

A87 EGU2011-4711

Wolfram Geissler, Flor de Lis Mancilla, Graça Silveira, Luis Matias, and Daniel Stich

Converted phases from teleseismic and local subcrustal earthquakes observed at broadband ocean bottom seismometers in the Gulf of Cadiz, Eastern Atlantic

A88 EGU2011-12134

Andreas Schmidt and the Egelados Working Group Team

Rayleigh wave dispersion analysis using seismic ambient noise data at amphibic networks

A89 EGU2011-5192

Gabi Laske, Spencer Trinh, Shi Sim, John A Orcutt, and John A Collins

The Hawaiian PLUME Project: A Broadband Seismic Dataset Provides Glimpses into Ocean and Atmosphere Processes

A90 EGU2011-10718

Antonio Pazos, Jose Martín Davila, Elisa Bufo, Winfried Hanka, Agustin Udias, Mourad Benzeggoud, and Mimoun Harnafi

New OBS's deployments in South Spain: FOMAR network and ALBO Observatory.

A91 EGU2011-5227

Yozo Hamano, **Hiroko Sugioka**, Takafumi Kasaya, Kiyoshi Baba, Noriko Tada, Hajime Shiobara, Aki Ito, Takehi Isse, and Daisuke Suetsugu

2010 Chile earthquake tsunami observed by the seafloor geophysical observational network in the French Polynesia area

A92 EGU2011-4735

Chuanchuan Lu, Tianyao Hao, and Qingyu You

An OBS survey line across Bohai Bay

A93 EGU2011-3955

Hiroko Sugioka, Yoshio Fukao, and Toshihiko Kanazawa

Evidence for infragravity waves-tide resonance in deep oceans

A94 EGU2011-2588

Mechita Christa Schmidt-Aursch, Wolfram Geissler, and Wilfried Jokat

The ocean bottom seismometer of the German instrument pool for amphibian seismology (DEPAS)

A95 EGU2011-9308

Cansun Guralp, **Horst Rademacher**, and Chris Pearcey

A new Design for Portable Ocean Bottom Seismometers

A96 EGU2011-2314

Alexey Sukhovich, Anthony Ogé, Frederik Simons, Anne Deschamps, Yann Hello, and Guust Nolet

A probabilistic approach to the discrimination of underwater acoustic signals due to P-waves generated by teleseismic events

- A97 EGU2011-1877
Qingyu You, Tianyao Hao, and **Chuanchuan Lu**
Broadband Ocean Bottom Seismometer developed by Chinese Academy of Sciences
- A98 EGU2011-12908
Harold T. "Bud" Vincent and **Frederik J. Simons**
Son-O-Mermaid: A Green Instrument Platform for the Blue Ocean
- A99 EGU2011-3959
Hajime Shiobara, Hisashi Utada, Toshihiko Kanazawa, Kiyoshi Baba, Takehi Isse, Masanao Shinohara, Hiroko Sugioka, Noriko Tada, and Aki Ito
Recent developments of ocean bottom seismic and electromagnetic instruments operated by ROV
- A100 EGU2011-12525
Katrin Schwalenberg and Martin Engels
HYDRA - A new towed electromagnetic seafloor system
- A101 EGU2011-2874
Noriko Tada, Kiyoshi Baba, Hisashi Utada, Weerachai Siripunvaraporn, and Makoto Uyeshima
Importance of treating seafloor topography in inversion of 3-D marine MT data
- A102 EGU2011-2407
Hisayoshi Shimizu, Hisashi Utada, and **Kiyoshi Baba**
Measurements of submarine cable electrical voltages to probe the Earth's deep interior
- A103 EGU2011-13340
Sebastian Hölz and **Marion Jegen**
Five years of marine research using EM methods at the IFM-GEOMAR
- A104 EGU2011-5457
Hangilro Jang, Hannuree Jang, Ki Ha Lee, and Hee Joon Kim
Sensitivity analysis of marine CSEM surveys for detecting a gas-hydrate layer

TS5.1/GD4.4/GMPV35/SM2.9 – Continental rifting & mid-ocean ridges : the role and mechanisms of tectonics, mantle dynamics, sedimentation and magmatism (co-organized) – Orals

Convener: Gwenn Peron-Pinvidic | Co-Conveners: Sylvie Leroy, Cecile Robin, Kay Achenbach, Richard Katz, Arjan Dijkstra

Room: 27

Chairperson: Gwenn Peron-Pinvidic and Sylvie Leroy

- 08:30–08:45 EGU2011-7509
Geoffroy Mohn, Gianreto Manatschal, Emmanuel Masini, Marco Beltrando, Othmar Müntener, and Nick Kusznir
Unraveling crustal thinning processes at magma-poor rifted margins: Evidence from the Alpine Tethys margins
- 08:45–09:00 EGU2011-12172
Marta Perez-Gussinye and Cesar R. Ranero
A tectonic model for sequential faulting, crustal thinning, and the development of asymmetric rifted margins
- 09:00–09:15 EGU2011-5426
Gideon Rosenbaum, Klaus Regenauer-Lieb, Roberto Weinberg, Yaron Finzi, and Hans Mühlhaus
Continental rifts: complex dissipative patterns from simple boundary conditions
- 09:15–09:30 EGU2011-9147
Yuriy Elesin, Irina Artemieva, and **Hans Thybo**
Depth of continental rifts
- 09:30–09:45 EGU2011-9139
Christian Heine, Jasper Zouthout, Rosie Fletcher, Rob Hunsdale, and Eric J.-P. Blanc
Integrating lithospheric deformation and plate tectonic models: The evolution of South Atlantic conjugate margins revisited
- 09:45–10:00 EGU2011-3776
K. W. Helen Lau, Keith E. Loudon, Yue Wu, and Mladen Nedimovic
Asymmetrical crustal structure across the non-volcanic Nova Scotia-Morocco continental margin conjugates

COFFEE BREAK

Chairperson: Cecile Robin and Kay Achenbach

- 10:30–10:45 EGU2011-1427
Jennifer Totterdell, George Gibson, Andrew Stacey, Cameron Mitchell, Michael Morse, Goutam Nayak, and Nick Kusznir
 Structural architecture of Australia's 4000 km-long southern rifted continental margin
- 10:45–11:00 EGU2011-2299
Po Wan Wong, Manuel Pubellier, Nicolas Chamot-Rooke, Lung-sang Chan, Franke Dieter, Florian Meresse, Dimitri Savva, Marie Sarré, and Benoit Mouly
 Reappraisal of Cenozoic crustal evolution of the northern margin of the South China Sea by Land-Sea correlation
- 11:00–11:15 EGU2011-11884
Natasha Stanton, Sergio Fontes, Jean-Marie Flexor, and Cosme Neto
 The Tectonic Framework of Santos Basin: an approach from aeromagnetic data
- 11:15–11:30 EGU2011-4289
Taras Gerya
 Development of transform faults at mid-ocean ridges: plate fragmentation vs. plate growth origin
- 11:30–11:45 EGU2011-8263
Laurent Montesi and Laura Hebert
 Tectonic controls on magma extraction at mid-ocean ridges at the 100km scale
- 11:45–12:00 EGU2011-4611
Harro Schmeling, Gabriele Marquart, and Robert Orendt
 Crustal thickness variations at plume - ridge interaction spreading centres: dynamic models of crust accretion with hydrothermal cooling

TS5.1/GD4.4/GMPV35/SM2.9 – Continental rifting & mid-ocean ridges : the role and mechanisms of tectonics, mantle dynamics, sedimentation and magmatism (co-organized) – Posters

Convenor: Gwenn Peron-Pinvidic | Co-Conveners: Sylvie Leroy, Cecile Robin, Kay Achenbach, Richard Katz, Arjan Dijkstra

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Kay Achenbach and Gwenn Peron-Pinvidic

- XL248 EGU2011-9198
Ritske S. Huismans and Christopher Beaumont
 Rifted Continental Margins: The Case for Depth-Dependent Extension
- XL249 EGU2011-5095
Charmaine Thomas
 Passive margin formation through continental extension: Constraining numerical modelling with geophysical data, a case study from the Browse Basin, northwest Australia.
- XL250 EGU2011-6240
Dimitri Savva, Florian Meresse, Kenny Wong, Manuel Pubellier, Nicolas Chamot Rooke, Dieter Franke, Stephan Steuer, and Benoit Mouly
 Stratigraphic correlation of Paleozoic to Neogene sediments from the South China margin to Reed Bank and Palawan.
- XL251 EGU2011-9235
 Louise Watremez, **Evguenii Burov**, Elia d'Acremont, Sylvie Leroy, and Benjamin Huet
 Mantle densities and rupture criterion: thermo-mechanical modelling applied to the Eastern Gulf of Aden
- XL252 EGU2011-3643
Volkmarr Damm, Axel Ehrhardt, Tabea Altenbernd, Kai Berglar, Martin Block, Ingo Heyde, Michael Schnabel, and Bernd Schreckenberger
 Structure and evolution of the West Greenland continental margin
- XL253 EGU2011-10415
Mohamed Mansour Abdelmalak, Laurent Geoffroy, and Charles Aubourg
 From sedimentary basins to volcanic passive margins: a tectonic and thermal comparison between the Disko-Svartenhuk and Vøring passive margins
- XL254 EGU2011-11623
Sönke Reiche, Ian Reid, and Hans Thybo
 Crustal structure of the Greenland-Iceland Ridge inferred from wide-angle seismic data
- XL255 EGU2011-5938
Gwenn Peron-Pinvidic, Laurent Gernigon, and Carmen Gaina
 Insights from the Jan Mayen system in the Norwegian-Greenland Sea: architecture of a microcontinent
- XL256 EGU2011-11606
Chris J. Cooper and Nick J. Kusznir
 Density-depth Relationship of Serpentinised Mantle on the Iberian, Newfoundland and Nova Scotia Margins from Comparison of Seismic and Gravity Inversion Moho Depths

- XL257 EGU2011-1756
Emilie Sutra and Gianreto Manatschal
Where, when and how, does the continental crust thin in a hyper-extended rifted margin: insights from the Iberia margin.
- XL258 EGU2011-6902
Lope Ezquerro, Aránzazu Luzón, Carlos Liesa, and Jose Luis Simón
An approach to the allocyclical factors controlling the sedimentary fill in the northern sector of the Neogene Teruel half-graben (Spain).
- XL259 EGU2011-6991
Tomás Sanz, Marceliano Lago, Andrés Gil, Andrés Pocovi, **Teresa Ubide**, Carlos Galé, Patricia Larrea, and Pablo Tierz
Evidence of crust-doming in the Mesozoic rifting of the north-western Iberian Chain (Spain)
- XL260 EGU2011-12423
Emmanuel Masini, Manatschal Gianreto, Mohn Geoffroy, Tugend Julie, and Unternehr Patrick
The tectono-sedimentary record of hyper-extended rift basins: new observations from the Samedan basin (Central Alps) and Mauléon basin (Western Pyrenees)
- XL261 EGU2011-12054
Frédéric Mouthereau and Raphael Pik
Mesozoic exhumation in the Pyrenees revealed by double zircon U/Pb and (U-Th)/He dating
- XL262 EGU2011-2278
Lidia Rodríguez, Julia Cuevas, José Julián Esteban, José María Tubía, Sergey Sergeev, and Alexander Larionov
New age constraints on the Permian magmatism in the Sallent area (Axial Zone, central Pyrenees)
- XL263 EGU2011-8712
Julie Tugend, Emmanuel Masini, Gianreto Manatschal, and Isabelle Thinon
What is the tectono-sedimentary evolution of sag basins in hyper-extended rift-settings: the example of the Early Cretaceous Bay of Biscay-NW Pyrenean rift basins
- XL264 EGU2011-558
Sara Mana, Godwin F. Mollel, Michael J. Carr, Tanya Furman, and Carl C. Swisher III
Magmatic History and Rift Initiation in the North Tanzanian Divergence Zone, East African Rift System
- XL265 EGU2011-5818
Sarah Medynski, Raphaël Pik, Charlotte Vye, and Peter Burnard
Interplay between tectonics and magmatism during the last stages of continental breakup: the Dabbahu rift segment, Afar, Ethiopia.
- XL266 EGU2011-512
Nadezhda Priyatkina and Oleg Andrievskiy
Kimozero massive of diamondiferous rocks: formation of Early Proterozoic rift-related magmatism in Karelia, NW Russia
- XL267 EGU2011-929
Kay Achenbach, Michael Cheadle, Henry Dick, and Susan Swapp
Olivine LPO in Abyssal Peridotites: Does the Presence of Melt During Deformation Determine the Seismic Anisotropy of the Oceanic Lithosphere?
- XL268 EGU2011-4360
Tao Zhang, Jinyao Gao, Zhaocai Wu, Lihong Zhao, Chunguo Yang, Zhongyan Shen, and Zhiyuan Zhou
The spreading history and paleo-ridge segmentation of the northwestern sub-basin of the South China Sea
- XL269 EGU2011-8515
Anne Deschamps, Arnaud Agranier, Bérangère Mougél, and Jérôme Dymont
Axial morphology of the East-Pacific Rise crest in the vicinity of its intersection with the Mathematician hot-spot: results of the PARISUB'2010 cruise.
- XL270 EGU2011-12864
Julia Mahlke, Colin Devey, Kaj Hoernle, and Dieter Garbe-Schönberg
Geochemistry of volcanic rocks from the Woodlark Basin
- XL271 EGU2011-5367
Wen-Hao Liao, Ling-Yun Chiao, and Bou-jou Huang
Cold spots along mid-ocean ridges revealed by anomalously low subsidence rates
- XL272 EGU2011-13199
Anke Dannowski, Ingo Grevemeyer, and Cesar R. Ranero
Oceanic Core Complex die off and generation of enhanced mantle upwelling on the Mid-Atlantic Ridge - 22° N

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

(co-organized) – 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 Bokemann, 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 Gvitzman

- 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 Gvitzman 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 Hasözbeek, 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 Kováčová, 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-organized) – 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 briannonnaise (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. Sobisevitch, 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 Fernández, 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

HS8.2.9 – Sedimentary basins as active fluid circulation systems (co-listed) – Orals

Convener: David Hindle | Co-Conveners: Sabine Attinger, Piotr Krzywiec

Room: 34

Chairperson: David Hindle

- 15:30–15:45 EGU2011-3005
Jonas Kley and the INFLUINS Team
 INFLUINS: Investigating fluid flow between surface and deep levels of sedimentary basins: The Thuringian Basin as a geolaboratory
- 15:45–16:00 EGU2011-4310
David Hindle and Heidrun Kopp
 Coupled fluid flow and deformation in sedimentary basins over geological timescales: A numerical modelling approach for accretionary prisms.
- 16:00–16:15 EGU2011-6279
Sophie Violette, Julio Gonçavès, Anne Jost, Raffaella Vivona, Camille Contoux and the 3D-PBM Team
 3D-Paris basin Modelling: How past geological history explains its present day hydrodynamics
- 16:15–16:30 EGU2011-6504
Elco Luijendijk, Paul Andriessen, Mark Person, Ronald van Balen, and Marlies ter Voorde
 Tracing a fossil hydrothermal system using thermochronology and numerical modeling
- 16:30–16:45 EGU2011-11966
Denis Bureau, Joe Cartwright, and Regis Mourgues
 Exploitation of mechanical weaknesses by sandstone intrusions
- 16:45–17:00 EGU2011-1408
Klaus Hebig, Narimitsu Ito, Traugott Scheytt, and Atsunao Marui
 Parameter determination in a deep coastal sedimentary basin by single-well ("push-pull") tests

HS8.2.9 – Sedimentary basins as active fluid circulation systems (co-listed) – Posters

Convener: David Hindle | Co-Conveners: Sabine Attinger, Piotr Krzywiec

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- A362 EGU2011-5070
Alraune Zech, Bjoern Zehner, Thomas Fischer, Olaf Kolditz, and Sabine Attinger
 Modelling of thermohaline circulation in sedimentary basins
- A363 EGU2011-7151
Ronny Stolz, Andreas Chwala, Viatcheslav Zakosarenko, Marco Schulz, Matthias Schmelz, Sven Linzen, Hans-Georg Meyer, Matthias Meyer, and Nikolai Bondarenko
 SQUID based instrument for investigation of magnetic structures
- A364 EGU2011-9392
Arkadiusz K. Wieczorek and Kai U. Totsche
 Atomic Force Microscopy as a tool to characterize groundwater colloids
- A365 EGU2011-10283
 Pierre Durst, **Eline Malcuit**, Philippe Negrel, and Emmanuelle Petelet-Giraud
 Impact of sedimentologic and structural evolution of the Aquitaine Basin on actual water quality. Eocene sand aquifer, south western France.
- A366 EGU2011-12819
 Norbert Kasch, Jens Köster, Robert van Geldern, Markus Wehrer, and **Jonas Kley**
 Burial, exhumation and fluid flow in a Buntsandstein aquifer, central Germany
- A367 EGU2011-12853
 Alexander Malz, **Stephan Donndorf**, and Jonas Kley
 Late Cretaceous inversion tectonics in the Thuringian Basin (Germany) - The Finne Fault Zone as an example of a differentially inverted graben system
- A368 EGU2011-13383
 Maria Brey, Juraj Majzlan, and **Michael Abratis**
 Mineralizing fluids related to barite-fluorite fissure mineralizations at the southern edge of the Thuringian Basin, Germany
- A369 EGU2011-13743
Bjoern Zehner
 Extending Gocad to improve the modelling - simulation - visualization workflow.
- A370 EGU2011-13819
Daniel Beyer, Cindy Kunkel, Ulrike Hilse, Michaela Aehnelt, Dieter Pudlo, Thomas Voigt, and Reinhard Gaupp
 Reservoir properties and fluid circulation in Buntsandstein aquifer sandstones of the Thuringian Basin in Central Germany

- A371 EGU2011-13821
Ulrike Hilse, Dieter Pudlo, and Reinhard Gaupp
Element mobilization and mineral (re-)precipitation in sedimentary rocks from Central Germany on a microscopic scale
- A372 EGU2011-13839
Thomas Fischer, Björn Zehner, Alraune Zech, Sabine Attinger, and Olaf Kolditz
A vertically integrated 2D groundwater model of the Thuringian basin.

Thursday, 07 April

GD1.1/BG8.3/GMPV44/TS1.3 – Early Earth: from deep dynamics to surface life (co-organized) – Posters

Convener: Jeroen van Hunen | Co-Conveners: Emmanuelle J. Javaux, Nicolas Flament, Nicholas T. Arndt

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Nico Flament and Jeroen van Hunen

- A40 EGU2011-2489
Kevin Lepot, Léo Deremiens, Zorigto Namsaraev, Philippe Compère, Emmanuelle Gérard, Elie Verleyen, Ines Tavernier, Dominic A. Hodgson, Annick Wilmotte, and Emmanuelle Javaux
 Organo-mineral imprints in fossil cyanobacterial mats of an Antarctic lake
- A41 EGU2011-11401
Hendrik Kienert and Georg Feulner
 The Faint Young Sun Paradox: Coupled 3D Simulations of the Archean Climate
- A42 EGU2011-11721
Yoram Teitler, Guillaume Le Hir, and Frédéric Fluteau
 Constraints on atmospheric pCO₂ during the Great Oxygenation Event inferred from 3-D climate modeling and relevance regarding paleosol studies
- A43 EGU2011-9380
Jun Yang and Wm Peltier
 Initiation of modern Soft Snowball and Hard Snowball in CCSM3
- A44 EGU2011-10630
Evgenii Sharkov, Marina Astafieva, Marya Bogina, and Alexei Rozanov
 Evolution of geological processes on terrestrial planets and their impact on the environment
- A45 EGU2011-2045
Eason Hong and Wei-Ting Kao
 A key element to unravel the formation of continental crust
- A46 EGU2011-11341
 Christophe Robin, Nicholas Arndt, Catherine Chauvel, Gary Byerly, Alexander Sobolev, and **Allan Wilson**
 Polybaric critical melting with high melt retention explains the compositions of Barberton komatiites
- A47 EGU2011-714
Yulia Deines
 Geochemical features of Palaeoproterozoic organosiliceous deposits (maksovitites) of Russian Fennoscandia
- A48 EGU2011-4048
 Svetlana Lobach-Zhuchenko, Elena Bibikova, **Victor Balagansky**, Anastasiya Yurchenko, Sergey Sergeev, and Sergey Skublov
 SIMS SHRIMP-II U-Pb zircon data for an Archaean igneous complex (3.5-2.9 Ga) and its Palaeoproterozoic reworking in the Orekhov-Pavlograd compressional zone, Ukrainian Shield

G4.2/GD1.5 – Gravity modelling for understanding of the solid Earth structure and geodynamical processes (co-organized) – Orals

Convener: Bruno Meurers | Co-Conveners: Mikhail Kaban, Carla Braitenberg, Hans-Jürgen Götze, Gabriel Strykowski

Room: 17

Chairperson: Carla Braitenberg

- 08:30–08:45 EGU2011-9268
Shin-Chan Han, Choon-Ki Lee, and Bernhard Steinberger
 Influence of variable uncertainties in seismic tomography models on constraining mantle viscosity from geoid observations
- 08:45–09:00 EGU2011-6074
Hamayun Hamayun, Pavel Ditmar, Trampert Jeannot, and Tenzer Robert
 Towards improvement of the global Moho model using state-of-the-art models of the Earth's gravity field and additional information about the crust density structure
- 09:00–09:15 EGU2011-256
Tamara Yegorova, Tatiana Yanovskaya, Valentina Gobarenko, and Ekaterina Baranova
 Lithosphere structure of the Black Sea from 3D gravity analysis and seismic tomography
- 09:15–09:30 EGU2011-1113
Jörg Ebbing, Stewart Fishwick, Susan J. Webb, and Albert Eyike Yomba
 The link between upper mantle seismic velocity anomalies and the gravity field of Northern Africa
- 09:30–09:45 EGU2011-1387
Mikhail K. Kaban and T. Reiza Yuanda
 A new gravity model of Tien Shan: constraints for structure and evolution.

09:45–10:00 EGU2011-2379

Zhongjie Zhang, Sufang Zhang, and Carla Braitenberg

Crustal density structure from gravity modelling beneath Himalaya and Lhasa terranes, Tibet

COFFEE BREAK

Chairperson: Hans-Jürgen Götze

10:30–10:45 EGU2011-2127

Jinyao Gao, Tao Zhang, Zhaocai Wu, Chunguo Yang, Zhongyan Shen, and Xiaowen Luo

China's offshore gravity and magnetic measurement and interpretation

10:45–11:00 EGU2011-7174

Carla Braitenberg, Tommaso Pivetta, and Joerg Ebbing

Unveiling the geodynamic context of geologic structures with satellite gravity

11:00–11:15 EGU2011-937

Benjamin D. Gutknecht, Nils Köther, Rezene Mahatsente, Hans-Jürgen Götze, and Monika Sobiesiak

Towards asperity mapping using satellite-derived gravity gradients

11:15–11:30 EGU2011-4601

Icaro Vitorello, Naomi Ussami, Antonio L. Padilha, Carla Braitenberg, Marcelo B. Pádua, and Mauricio S. Bologna

Lithospheric investigations of the intra-cratonic Paraná and Chaco-Paraná basins integrating terrestrial gravity, satellite gravity gradiometry, geomagnetic and electromagnetic soundings.

11:30–11:45 EGU2011-9130

Susann Wienecke, Christopher Stadtler, and Christine Fichler

A novel approach setting boundary conditions in gravity field modelling

11:45–12:00 EGU2011-11503

Hartmut Wziontek, Reinhard Falk, Herbert Wilmes, Peter Wolf, Hayo Hase, Armin Boer, Ivan Cona, and Rongjiang Wang

Co-seismic gravity changes at TIGO/Concepcion after the M8.8 Maule Earthquake, Chile measured by absolute and superconducting gravimeters in comparison with a viscoelastic-gravitational model

G4.2/GD1.5 – Gravity modelling for understanding of the solid Earth structure and geodynamical processes (co-organized) – Posters

Convener: Bruno Meurers | Co-Conveners: Mikhail Kaban, Carla Braitenberg, Hans-Jürgen Götze, Gabriel Strykowski

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Jörg Ebbing

XY314 EGU2011-11304

Michel Diament, Isabelle Panet, Per Knudsen, Christian Tscherning, **Jérôme Benveniste**, Julien Penguen, and Gut team

GOCE USER TOOLBOX and TUTORIAL FOR SOLID EARTH PHYSICS

XY315 EGU2011-12037

Daniele Sampietro and Mirko Reguzzoni

A study on the Austrian Moho from GOCE data

XY316 EGU2011-9427

Everton Bomfim, Carla Braitenberg, and Eder Molina

Tensor gradient field from GOCE as tool for gaining insight of the Amazon and the Solimões Basin, Brazil

XY317 EGU2011-4679

Patrizia Mariani, Carla Braitenberg, and Naomi Ussami

Unveiling the border of a craton by the gravity gradient with examples from the Parana' basin

XY318 EGU2011-9550

Robert Tenzer, Vladislav Gladkikh, Hamayun Hamayun, Pavel Novak, and Peter Vajda

The crust-mantle density contrast estimated based on EGM2008, DTM2008, CRUST2.0 and ICE-5G

XY319 EGU2011-9535

Robert Tenzer, Vladislav Gladkikh, and Pavel Novak

The high-degree constituents of the bathymetric stripping corrections to gravity field quantities

XY320 EGU2011-9502

Pavel Novak, Vladislav Gladkikh, and Robert Tenzer

Two empirical seawater density models estimated based on the analysis of WOA09 and WOCE-04 oceanographic data

- XY321 EGU2011-9674
Robert Tenzer, Abdalla Ahmed, **Pavel Novak**, Peter Vajda, and Artu Ellmann
A spectral modelling of the gravitational contribution of the far-zone topography
- XY322 EGU2011-734
Ramin Kiamehr
A New Moho Depth Model for Iran Based on the High Resolution EGM2008 Global Geopotential Model
- XY323 EGU2011-8202
Lester Anderson, Fausto Ferraccioli, Tom Jordan, Tony Watts, Egidio Armadillo, Charlotte Moss, and Emanuele Bozzo
Crustal root related to magmatic underplating beneath the Transantarctic Mountains: new evidence from gravity data
- XY324 EGU2011-208
Hakan Alp, Huseyin Tur, and A. Muhittin Albora
Investigation of The Tectonic Structure of Cilicia Basin by Applying Wavelet Analysis Method to Gravity Data
- XY325 EGU2011-6111
Ya Xu, **Tianyao Hao**, Weiwei Jiang, Zhiwei Li, and Song Huang
The deep crust structure of Bohai Sea from gravity and magnetic study
- XY326 EGU2011-8421
Ingo Heyde, Dieter Franke, Ralf Freitag, Christoph Gaedicke, and Nikolay Tsukanov
Marine geophysical measurements in the northernmost part of the Emperor Seamount Chain in the Northwest Pacific
- XY327 EGU2011-2004
Andrew N. Grushinsky and Evgeny D. Koryakin
Mantle gravity anomalies in Greenland
- XY328 EGU2011-6978
Gerald Gabriel and Peter Skiba
Gravity anomalies and disturbances in Germany - a new homogenous, high-resolution compilation
- XY329 EGU2011-7471
Oya Pamukçu, Hasan Sözbilir, Emir Y. Ersay, and Ayça Yurdakul
The use of microgravity modelling for understanding of the tectonic activity in Izmir, Western Anatolian Region, Turkey
- XY330 EGU2011-2533
Tolga Gönenç and **Mustafa Ergün**
Crustal Structure around the Marmara Sea and the Western Black sea
- XY331 EGU2011-10050
Riccardo Riva and Rob Govers
Postseismic deformation following the 2004 Sumatra-Andaman earthquake from dedicated post-processing of GRACE data
- XY332 EGU2011-7426
Milos Valko and Vojtech Pálinkás
Improved Data Quality Control and Calibration of the Superconducting Gravimeter OSG-050 at the Station Pecň
- XY333 EGU2011-12474
Bruno Meurers, Manfred Dorninger, and Norbert Blaumoser
Atmospheric signals in the SG gravity record at Conrad Observatory, Austria
- XY334 EGU2011-13131
Elsayed Issawy, Jan Mrlina, Anwar Radwan, and Salah Mahmoud
Temporal gravity changes with correlation to seismicity and geodetic data for crustal deformation studies in Egypt
- XY335 EGU2011-2359
Evgeny Spiridonov, Olga Vinogradova, Ernst Boyarskiy, and Larisa Afanasyeva
The Effect Of Local Peculiarities In the Upper Mantle And Lithosphere Structures On Ocean Loading Gravity Corrections
- XY336 EGU2011-11085
Hannu Ruotsalainen
Comparing ocean tide loading models for Nearly Diurnal Free Wobble (NDWF) analysis of tidal gravity and tilt observations recorded in southern Finland
- XY337 EGU2011-12577
Dave May and Matthew G. Knepley
Optimal, scalable forward models for gravity computations
- XY338 EGU2011-11939
Gabriel Strykowski
Inverse Gravimetric Problem: Faroe Islands gravity data revisited
- XY339 EGU2011-12414
Kerem Halicioglu, Haluk Ozener, and Rasim Deniz
Astro-geodetic Measurements using Digital Zenith Camera System in Istanbul-Turkey

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 ?ermák, Old?ich Krej?í, 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

SM2.1/GD2.12/TS8.6 – New developments and Results on Seismotectonics (co-organized) – Orals

Convener: Mourad Bezzeghoud | Co-Conveners: Elisa Buforn

Room: 26

Chairperson: Mourad Bezzeghoud and Elisa Buforn

- 08:30–08:45 EGU2011-1790
Ulrich Schreiber and Gabriele Berberich
 Red Wood Ant Mounds as Biological Indicators for Earthquake-bearing Fault Systems
- 08:45–09:00 EGU2011-1785
Gabriele Berberich, Martin Berberich, and Ulrich Schreiber
 First Results of 1 Year Monitoring of Red Wood Ant Behaviour as Short-term (> 1h) Indicators for Earthquake Prediction
- 09:00–09:15 EGU2011-2930
Youssef Timoulali and Mustapha Meghraoui
 3-D crustal structure in the Agadir region (SW High Atlas, Morocco)
- 09:15–09:30 EGU2011-9852
Kevin Manchuel, Nicole Béthoux, Marc Régnier, Yvonne Font, and Bertrand Delouis
 Interseismic active deformation and stress fields along the North Ecuadorian - South Colombian margin
- 09:30–09:45 EGU2011-9781
José Borges, Bento Caldeira, João Carvalho, and Mourad Bezzeghoud
 Three-dimensional seismic ground motion modelling in Lower Tagus Valley from Finite difference simulations
- 09:45–10:00 EGU2011-13419
João Rocha, Mourad Bezzeghoud, Bento Caldeira, José Borges, Nuno Dias, Luís Matias, and Alexandre Araújo
 Microseismicity in the Algarve region (southern Portugal) and its seismotectonic implications

SM2.1/GD2.12/TS8.6 – New developments and Results on Seismotectonics (co-organized) – Posters

Convener: Mourad Bezzeghoud | Co-Conveners: Elisa Buforn

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: José Fernando Borges

- XY689 EGU2011-84
Ahmed Hosny
 Source Moment Tensors of the earthquake Swarm in Abu-Dabbab area, South-East Egypt : Evidence of transient Igneous activity.
- XY690 EGU2011-808
Emanuela Matullo, Luis Rivera, Raffaella De Matteis, and Aldo Zollo
 Stress inversion from initial polarities of a population of earthquakes: application to the Irpinia region (Southern Apennines)
- XY691 EGU2011-3088
Quetzalcoatl Rodriguez-Perez and Lars Ottemöller
 Stochastic finite-fault ground-motion simulation and source characterization of the 4 April 2010 (Mw 7.2), El Mayor-Cucapah earthquake.

- XY692 EGU2011-10600
Ruey-Juin Rau, Jian-Cheng Lee, Kuo-En Ching, Yuan-Hsi Lee, Timothy Byrne, and Rong-Yuh Chen
 Subduction-continent collision in southwestern Taiwan: the 2010 Jiashian earthquake sequence
- XY693 EGU2011-9551
Sergio Llana-Funez, Carlos López Fernández, and Juan Manuel González Cortina
 Seismic swarms piercing through the seismogenic zone in moderately stressed upper crust of NW Iberia
- XY694 EGU2011-4376
Satoshi Matsumoto, Kenji Uehira, Takeshi Matsushima, and Hiroshi Shimizu
 Modeling deviatoric stress field around the hypocentral area of the 2005 Fukuoka earthquake (M7.0) using focal mechanisms
- XY695 EGU2011-4889
Fatih Bulut, Marco Bohnhoff, Tuna Eken, Christoph Janssen, Tu?bay K?I?ç, and Georg Dresen
 Seismicity of the East Anatolian Fault Zone: Insights into structural variation and fault kinematics
- XY696 EGU2011-8363
Tiziana Sgroi, Rita de Nardis, and Giusy Lavecchia
 Seismotectonic implications in central Sicily (Southern Italy): new constraints from crustal seismicity
- XY697 EGU2011-5348
Tuna Eken, Fatih Bulut, Marco Bohnhoff, Birsan Can, Mustafa Aktar, and Gerog Dresen
 Monitoring microseismicity at the Princes Islands segment of the North Anatolian Fault Zone: Recent results from the PIRE network
- XY698 EGU2011-6031
Konstantinos Konstantinou, Shiann-Jong Lee, Yvonne Font, and Honn Kao
 The 18 December 2001 (Mw 6.8) earthquake offshore eastern Taiwan: Rupture at the landward flank of a subducted ridge
- XY699 EGU2011-3032
 Efthimios Sokos, Jiri Zahradnik, Anastasia Kiratzi, **Jaromir Jansky**, Frantisek Gallovic, Oldrich Novotny, Anna Serpetsidaki, and Akis-G. Tselentis
 The January 2010 Efpalio earthquake sequence interpreted in terms of the tectonics of western Corinth Gulf
- XY700 EGU2011-4544
Ali Rezaei Nayeh and Hossein Shomali
 An Application of Relative Moment Tensor Inversion to 14 local earthquakes occurred in southern Iran, Fin region
- XY701 EGU2011-5217
Chau-Huei Chen and Chi-Chia Tang
 Find Low-Frequency Earthquakes in Southern Taiwan Triggered by the 2005 Mw8.6 Nias Earthquake from Micro-Tremor Records
- XY702 EGU2011-5922
Sebastiano D'Amico and Pauline Galea
 Moment Tensor solutions in the Sicily channel

GD3.1/TS10.1 – Unresolved problems in plate tectonics: kinematic reconstructions, plate driving forces, and plate boundary interactions (co-organized) – Orals

Convener: Jason Phipps Morgan | Co-Conveners: Christian Heine, Gabriele Morra

Room: 30

Chairperson: Ana Gibbons and Christian Heine

- 15:30–15:45 EGU2011-5696
John Suppe, Sara Carena, and Yih-Min Wu
 Tomographic constraints on flipping of subduction during arc-continent collision near Taiwan and the role of progressive continental delamination
- 15:45–16:00 EGU2011-5179
Ana Gibbons, Dr Joanne Whittaker, and Prof. R. Dietmar Müller
 Composite tectonic model for the early Indian Ocean
- 16:00–16:15 EGU2011-5449
Gideon Rosenbaum, Pengfei Li, and Daniela Rubatto
 Plate boundary bending: insight from the Permian oroclines of eastern Australia
- 16:15–16:30 EGU2011-5536
Jacqueline Austermann, Zvi Ben-Avraham, Peter Bird, Oliver Heidbach, Gerald Schubert, and Joann M. Stock
 Using latest Miocene changes in Pacific plate motion to analyze plate boundary forces
- 16:30–16:45 EGU2011-8627
 Vincent Brandon and **Jean-Yves Royer**
 Numerical modeling of the Indo-Australian intraplate deformation

16:45–17:00 EGU2011-11697

Rainer Nerlich, Stuart Clark, and Hans-Peter Bunge

Reconstructing the Scotia Sea: an evaluation of existing plate reconstructions and their kinematic and dynamic implications

GD3.1/TS10.1 – Unresolved problems in plate tectonics: kinematic reconstructions, plate driving forces, and plate boundary interactions (co-organized) – Posters

Convener: Jason Phipps Morgan | Co-Conveners: Christian Heine, Gabriele Morra

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Carl Bowin

A49 EGU2011-5308

Simon Williams, **Christian Heine**, Dietmar Muller, and Joanne Whittaker

A framework for modelling continental margin deformation within global plate tectonic reconstructions

A50 EGU2011-13488

Rezene Mahatsente, Giorgio Ranalli, Hans-Jürgen Götze, and Daniel Bolte

On the relationship between lithospheric strength and ridge-push transmission in the Nazca plate

A51 EGU2011-7466

Jacob Jensen, Patriat Philippe, Dymont Jerome, Whittaker Joanne M., and Muller R. Dietmar

Early opening of Australia and Antarctica - revisited

A52 EGU2011-1886

José Julián Esteban, Jose María Tubía, Julia Cuevas, Néstor Vegas, Sergey Sergeev, and Alexander Larionov

New clues for the plate tectonic assembly of the Betic Cordilleras from age constraints of pre-Triassic metamorphic sequences

A53 EGU2011-5390

Joanne Whittaker, Simon Williams, **Ana Gibbons**, and Dietmar Müller

Did the Central Kerguelen Plateau form due to Long-term Ridge-Hotspot Interaction?

A54 EGU2011-11734

Rocco Malservisi, Matthias Hackl, Peter C. La femina, John S. Oldow, and Halldor Geirsson

Diffuse plate boundary and microplate motion: kinematic effects of partial coupling between blocks in Western North America.

A55 EGU2011-2406

Fernando Ornelas Marques and Maryline Moulin

Arm wrestling between two mountains: Andes and Mid-Atlantic Ridge

A56 EGU2011-4013

Lubor Ostrihansky

Earth's rotation variations and earthquakes 2010

A57 EGU2011-11118

Jason Phipps Morgan and W. Jason Morgan

No-net Torque and Hotspot Reference Frames: Implications for strong lithosphere-mantle coupling beneath continental cratons and weak (asthenosphere-lubricated) coupling elsewhere

A58 EGU2011-11307

Alessandro Capra, Francesco Salvini, Paola Cianfarra, Giuseppe Casula, and **Marco Dubbini**

Northern Victoria Land (Antarctica) Active tectonics inferred from the integration of GPS data and geologic setting

A59 EGU2011-11639

Carl Bowin

Plate tectonics: a recent synthesis of its conservation of angular momentum, driving force, internal mantle motions, and lithosphere deformations

TS6.7/GD3.6/GMPV51 – Tectonic Evolution of the Gondwana Collision and the North African Tethyan Margin (co-organized) – Orals

Convener: Tamer Abu-Alam | Co-Conveners: Badr Ghorbal, Aberra Mogessie, Harald Fritz, Daniel Stockli, Mohamed Ghoneim

Room: 28

Chairperson: n.n.

13:30–13:45 EGU2011-9483

Joachim Jacobs, Kosuke Ueda, Robert J. Thomas, Ilka Kleinhanns, Bernhard Bingen, and Ane Engvik

Indentor-escape, delamination and orogenic collapse of the ca. 600-500 Ma East African/Antarctic

Orogen in Mozambique and Dronning Maud Land (East Antarctica)

- 13:45–14:00 EGU2011-203
Michael Brown, Barry Reno, Philip Piccoli, and Rudolph Trouw
 The early assembly of Gondwanan elements in South America: the P-T-time evolution of high-grade nappes in the Southern Brasília Belt, Brazil
- 14:00–14:15 EGU2011-2167
Harald Fritz, Christoph Hauzenberger, and Veronika Tenczer
 Tectonic styles of Neoproterozoic - early Phanerozoic East African orogens
- 14:15–14:30 EGU2011-11322
Badr Ghorbal, Daniel F. Stockli, and Paul A.M. Andriessen
 Time-temperature constraints on vertical movement along a Moroccan pericratonic transect (NW Africa) from zircon (U-Th)/He dating
- 14:30–14:45 EGU2011-86
Toshiaki Tsunogae, Hisako Shimizu, and Mw Santosh
 High-pressure and ultrahigh-temperature metamorphism along the Gondwana suture zone in Southern India
- 14:45–15:00 EGU2011-14011
Michael Brown
 Does the formation of Gondwana coincide with a change in global geodynamics?

TS6.7/GD3.6/GMPV51 – Tectonic Evolution of the Gondwana Collision and the North African Tethyan Margin (co-organized) – Posters

Convener: Tamer Abu-Alam | Co-Conveners: Badr Ghorbal, Aberra Mogessie, Harald Fritz, Daniel Stockli, Mohamed Ghoneim

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Badr Ghorbal and Harald Fritz

- XL375 EGU2011-10307
Tamer Abu-Alam, Kurt Stüwe, and Khalid Kadi
 Pan-African exhumation mechanisms
- XL376 EGU2011-12238
Zakaria Hamimi, Mohamed El-Shafei, Ghazi Kattu, and Mohamed Matsah
 Transpressional regime in southern Arabian Shield: insights from Wadi Yiba area, Saudi Arabia
- XL377 EGU2011-10364
 Mohamed Hamdy, El-Metwaly Lebda, and **Tamer Abu-Alam**
 Thermodynamic constraints on metamorphism of ultramafic rocks from different tectonic settings at Gebel Arais and Gebel Malo Grim, Eastern Desert, Egypt
- XL378 EGU2011-5454
Chris Clark, Ian Fitzsimons, and David Healy
 What drives and sustains high geothermal gradient metamorphism during Gondwana amalgamation?
- XL379 EGU2011-6864
Francesca Meneghini, Alex Kisters, Ake Fagereng, and Ian Buick
 A late Neoproterozoic ridge-trench encounter: evidence from the Khomas accretionary complex, Damara Belt, Central Namibia
- XL380 EGU2011-893
Manuel Seher, Ulrich A. Glasmacher, Daniel Stockli, Oliver Kluth, Jürgen Schober, Hadou Jabour, and Salim Lahsini
 Thermal and exhumation history of the southwestern Anti-Atlas, Morocco
- XL381 EGU2011-4477
 Or Bialik, Dorit Korngreen, and **Chaim Benjamini**
 Paleoenvironments of Late Triassic evaporites determined from coupled microfacies - stable isotopes characterization, Mohilla Fm of the Levant margin
- XL382 EGU2011-10027
Lydia Jagger and Ken McClay
 Tectono-stratigraphic evolution of the southeast Mediterranean margin, offshore Egypt and Libya
- XL383 EGU2011-11473
Leanne Cowie and Nick J. Kusznir
 Crustal Thickness for North Africa and the Mediterranean from Gravity Anomaly Inversion
- XL384 EGU2011-1138
Mohamed Ghoneim, Metwaly Lebda, and Abdelaal Abdelkarim
 On the Plutonities of the Subduction Regime south Sinai: Discrimination and Modeling
- XL385 EGU2011-1554
Or Bialik, Antonina Kantorovitch, Aaron Meilijson, Dorit Korngreen, and Chaim Benjamini
 Tectonic- and eustatic- control on multi-scale sedimentary cycles in the Ladinian-Carnian carbonate-evaporite succession, southern Levant margin

- XL386 EGU2011-3434
Julien Feneyrol, Patrick Monié, Gaston Giuliani, Daniel Ohnenstetter, and Elias Malisa
 Panafrican 39Ar/40Ar ages (520-505 Ma) of the tsavorite deposits in the Lelatema Fold Belt (northeastern Tanzania)
- XL387 EGU2011-3489
Daniel Ohnenstetter, Julien Feneyrol, Gaston Giuliani, Claire Rollion-Bard, Jean-Louis Robert, and Elias Malisa
 First occurrence of tainiolite in the Namalulu tsavorite deposit (Tanzania): evidence of evaporite-bearing sediments from continental platform in the Neoproterozoic Metamorphic Mozambique Belt
- XL388 EGU2011-4025
Damien Delvaux and Louis Kipata
 Late Panafrican thrust reactivations of the Ubende belt in Western Tanzania: a distant effect of the Lufilian Arc collisional orogeny
- XL389 EGU2011-4348
Mohammad Hossein Zarrinkoub, Sun lin Chung, Mohammad Mahdi Khatib, Seyed Saeid Mohammadi, and H y Chiu
 Aluminous A-type granite of Takhte Baz area (NW of Birjand, East of Iran) and its tectonic significance
- XL390 EGU2011-5480
Saeid Tavakoli, Dominique Frizon de Lamotte, Jean-Christophe Wrobel-Daveau, and Jean-Claude Ringenbach
 Pre-Permian extensional deformation and uplift in the central High Zagros (Iran): What is the geodynamic significance of the so-called "Hercynian unconformity" in the Arabian plate?
- XL391 EGU2011-6044
Camille Raulin, Dominique Frizon de Lamotte, Samir Bouaziz, Sami Khomsi, Nicolas Mouchot, Geoffrey Ruiz, and François Guillocheau
 Evidence of late Triassic-early Jurassic block tilting along E-W faults in southern Tunisia
- XL392 EGU2011-12982
 Arild Andresen, **Anders Lundmark**, Lars Augland, Tom Andersen, and Gamal Boghdady
 Constraining the Neoproterozoic East African orogen in the Eastern Desert, Egypt: combining U-Pb ID-TIMS ages, in situ LA-ICPMS Hf data and field observations
- XL393 EGU2011-13885
Mahmoud Shreif, Mohamed Ghoneim, Mohamed Heikal, and Bothina El-Dousky
 Petrogenesis of Granites, Sharm El-Sheikh Area, South Sinai, Egypt: Petrological Constrains and Tectonic Evolution

GD5.3/TS6.11 – Tectonics of the Dinarides, Hellenides and Rhodopes (co-organized) – Orals

Convener: Thorsten Nagel | Co-Conveners: Nikolaus Froitzheim, Jan Pleuger

Room: 35

Chairperson: Thorsten Nagel and Nikolaus Froitzheim

- 13:30–13:45 EGU2011-1527
Alastair Robertson, Branislav Trivi?, and Nevenka ?eri?
 New data from the Vardar suture zone in the Republic of Macedonia (FYROM) used to test alternative models of Jurassic ophiolite emplacement and Neotethyan evolution in the Balkan region
- 13:45–14:00 EGU2011-10992
Martina Busetti, Fabrizio Zgur, Valentina Volpi, Lorenzo Petronio, Franco Pettenati, Riccardo Ramella, Roberto Romeo, and Lorenzo Sormani
 The Dinaric fault system in the Gulf of Trieste (Northern Adriatic)
- 14:00–14:15 EGU2011-12443
Lea Lajmiš, Jure Žalohar, Asta Gregori?, and Marko Vrabec
 Kinematic and paleostress evolution of NW-SE trending »Dinaric« faults in Slovenia - A case for Neogene orogen-perpendicular extension in the External Dinarides
- 14:15–14:30 EGU2011-9426
Benjamin Huet, Loïc Labrousse, Patrick Monié, Laetitia Le Pourhiet, Laurent Jolivet, and Evgunii Burov
 Exhumation rates in the Metamorphic Core Complexes of the Cyclades (Aegean domain)
- 14:30–14:45 EGU2011-301
Gabriele Casale, Darrel Cowan, Richard Bennett, and Goran Buble
 Field Evidence of Slab Break-off in the Internal Dinarides: An Emerging Picture of Dinaric Post Tethyan-Closure Tectonics.
- 14:45–15:00 EGU2011-5510
Melody Philippon, Jean Pierre Brun, and Frédéric Gueydan
 Tectonic history of the Cycladic Blueschist Unit, from subduction to Aegean extension.

GD5.3/TS6.11 – Tectonics of the Dinarides, Hellenides and Rhodopes (co-organized) – Posters

Convener: Thorsten Nagel | Co-Conveners: Nikolaus Froitzheim, Jan Pleuger

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Nikolaus Froitzheim and Jan Pleuger

- A60 EGU2011-127
Silke Schmidt, Thorsten J. Nagel, Nikolaus Froitzheim, and Marian Janák
The age of UHP metamorphism and the exhumation path of microdiamond-bearing rocks (SW Rhodopes, Greece)
- A61 EGU2011-8244
Filippo Luca Schenker, Evangelos Moulas, Mark James Caddick, Taras Gerya, and Jean-Pierre Burg
HT thermal history of the intermediate-pressure metamorphism of Naxos (Greece): insights from modelling intra-crystalline diffusion of major elements in garnet
- A62 EGU2011-9202
Milorad Antic, Alexandre Kounov, Branislav Trivic, Irena Peytcheva, Albrecht von Quadt, Ianko Gerdjikov, Todor Serafimovski, and Goran Tasev
Preliminary structural and geochemical data from the Serbo-Macedonian massif (south Serbia, southwest Bulgaria and Macedonia)
- A63 EGU2011-10132
Maria Kirchenbaur, Jan Pleuger, Thorsten J. Nagel, Nikolaus Froitzheim, Silke Jahn-Awe, and Carsten Münker
Lu-Hf garnet geochronology reveals two high-pressure metamorphic events in the Bulgarian Rhodopes
- A64 EGU2011-11357
Silke Jahn-Awe, Jan Pleuger, Dirk Frey, Neven Georgiev, **Thorsten Nagel**, and Nikolaus Froitzheim
Time constraints for low-angle shear zones in the Rhodope Mountains (Bulgaria)
- A65 EGU2011-12511
Jan Pleuger, Neven Georgiev, Silke Jahn-Awe, and Nikolaus Froitzheim
Kinematics of Palaeogene low-angle extensional faults along the eastern border of the Central Rhodopes (Bulgaria)
- A66 EGU2011-13021
Marko Vrabec, Oskar Sterle, John Weber, and Bojan Stopar
Adria microplate motion and active deformation in the surrounding Dinaric -Alpine transition from GPS data
- A67 EGU2011-13122
Thorsten Nagel, Nikolaus Froitzheim, Jan Pleuger, Maria Kirchenbaur, Silke Jahn-Awe, Neven Georgiev, and Marian Janák
Architecture of the Rhodope Mountains
- A68 EGU2011-14015
Marian Janák, Nikolaus Froitzheim, Neven Georgiev, Thorsten Nagel, and Stoyan Sarov
P-T evolution of kyanite eclogite from the Pirin Mountains (SW Bulgaria): implications for the Rhodope UHP Metamorphic Complex

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

TS6.2/GD5.9/GMPV46/SM1.6 – Geodynamics of the Westernmost Mediterranean and Northwest Africa (co-organized)
 – Orals

Convener: Carlos J. Garrido | Co-Conveners: Bodinier Jean-Louis, Manel Fernandez, Laurent Jolivet, Guillermo Booth-Rea, Philippe Vernant

Room: 28

Chairperson: Carlos J. Garrido & Manel Fernández

- 10:30–10:45 EGU2011-13586
Christian Gorini, François Bache, Ferran Estrada, Belén Alonso, Abdellah Ammar, Daniel Aslanian, Damien Do Couto, Antonio Tadeu Dos Reis, Mohammed Elabbassi, Gemma Ercilla, Marga Garcia, Julien Gargani, Pol Guennoc, Laurent Jolivet, Gwenael Jouannic, Agnes Maillard, Ludovic Mocochain, Speranta-Maria Popescu, Marina Rabineau, Jean Loup Rubino, and Jean-Pierre Suc
 Messinian Events In The Mediterranean: A review from the offshore basins
- 10:45–11:00 EGU2011-5693
Jordi Diaz Cusí, Josep Gallart, and Topolberia Seismic Working Group
 Seismic anisotropy pattern beneath Iberia and Northern Morocco: first results from the second Topolberia-IberArray deployment
- 11:00–11:15 EGU2011-3274
Valentí Sallarès, Audrey Gailler, Marc-André Gutscher, Rafael Bartolomé, Jordi Díaz, Eulàlia Gràcia, and David Graindorge
 Seismic evidence for the presence of Jurassic oceanic crust in the Gulf of Cádiz (SW Iberia)
- 11:15–11:30 EGU2011-13558
Juan Carlos Afonso, Javier Fullea, Manel Fernández, Jaume Vergés, and Hermann Zeyen
 The lithosphere-sublithospheric upper mantle system beneath the Atlantic-Mediterranean Transition Region: advances and limitations from recent multidisciplinary approaches
- 11:30–11:45 EGU2011-4924
 David Pesquer, **Ingo Grevemeyer**, Cesar Ranero, and Josep Gallart
 Slab rollback and continental break-up in a convergent setting - seismic structure of passive continental margins in the Western Mediterranean
- 11:45–12:00 EGU2011-4034
Jacques Précigout, Frédéric Gueydan, Carlos J. Garrido, and Guillermo Booth-Rea
 Deformation and Exhumation of the sub-Continental Mantle: Insight from the Ronda Peridotite (Spain)

TS6.2/GD5.9/GMPV46/SM1.6 – Geodynamics of the Westernmost Mediterranean and Northwest Africa (co-organized)
 – Posters

Convener: Carlos J. Garrido | Co-Conveners: Bodinier Jean-Louis, Manel Fernandez, Laurent Jolivet, Guillermo Booth-Rea, Philippe Vernant

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: G. Booth-Rea, L. Jolivet, J.-L. Bodinier & P. Vernant

- XL348 EGU2011-8401
Damien Do Couto, Jean-Pierre Suc, Noémie Lebreton, Charles Gumiaux, Laurent Jolivet, Christian Gorini, Georges Clauzon, Gwénaél Jouannic, and Ferran Estrada
 Impacts of the Messinian Salinity Crisis on the Spanish margin of the Alboran Sea, Western Mediterranean
- XL349 EGU2011-481
Youssef Timoulali
 Geodynamic evolution in the West Alboran Sea: New evidence
- XL350 EGU2011-9927
Manel Fernández, Ivone Jiménez-Munt, Jaume Vergés, Daniel Garcia-Castellanos, Javier Fullea, Marta Pérez-Gussinyé, and Juan Carlos Afonso
 Decoupled crust-mantle accommodation of Africa-Eurasia convergence in the NW-Moroccan margin
- XL351 EGU2011-6461
Stephen Monna, Giovanni B. Cimini, Caterina Montuori, Wolfram H. Geissler, Luis M. Matias, and Paolo Favali
 Upper mantle structure of the SW Iberian Margin and Alboran Sea: new insights from 3D teleseismic tomography integrating OBS and land stations data

- XL352 EGU2011-8902
Meghan S. Miller, Amir Allam, Lisa A. Alpert, and Thorsten W. Becker
 Mantle structure and dynamics beneath the Western Mediterranean constrained by seismic anisotropy and global flow models
- XL353 EGU2011-1231
Edoardo Del Pezzo, Jose Morales, Jesus Ibanez, Daniel Stich, and Francesca Bianco
 Attenuation for P and S waves in the upper mantle beneath Iberian peninsula in the frequency range 0.2 - 8 Hz from Broad-Band recordings of the (600 km) deep $\bar{A}$ earthquake of April 11, 2010.
- XL354 EGU2011-11270
Süleyman Dündar, Rainer Kind, Xiaohui Yuan, Fatih Bulut, Xueqing Li, Forough Sodoudi, Ben Heit, Prakash Kumar, Winfried Hanka, and Flor de Lis Mancilla
 Lessons learned from receiver function analysis: Variation of the seismic discontinuities along the Alboran Sea region
- XL355 EGU2011-4930
Ingo Grevemeyer, Antonio Villasenor, and Wiebke Leuchters
 Seismotectonics of the Alboran domain, Western Mediterranean - active shallow tectonics and deep-seated shadows of the past
- XL356 EGU2011-13745
Jean Roger, Alain Rabaute, Nuno Simão, and Nicolas Chamot-Rooke
 High energy seismic ruptures offshore the Iberian Peninsula: state of the art
- XL357 EGU2011-8111
 Angélique Leprêtre, **David Graindorge**, Frauke Klingelhoeffer, Philippe Schnurle, Rabah Bracène, Abdelkarim Yellès, and Jacques Déverchère
 How atypical is the Algerian passive margin? First results from structures imaged by seismic data off Tipaza, central Algerian margin
- XL358 EGU2011-11185
Daniel Garcia-Castellanos and Antonio Villaseñor
 Tectonic uplift at the Gibraltar Arc and the Mediterranean salt pan. Towards a mechanistic model for the Messinian Salinity Crisis
- XL359 EGU2011-13075
Achraf Koulali Idrissi, Driss Ouazar, Abdelilah Tahayt, Robert.W King, Philippe Vernant, Robert Reilinger, Simon McClusky, Taoufiq Mourabit, J.Martín Davila, and Nabil Amraoui
 New GPS constraints on deformation along the Africa-Iberia plate boundary
- XL360 EGU2011-8005
Anna Echeverria, Giorgi Khazaradze, Jorge Garate, Eva Asensio, Eulàlia Masana, and Emma Suriñach
 Present-day GPS crustal deformation rates in the Eastern Betics (SE Spain)
- XL361 EGU2011-4290
Ana Ruiz-Constán, Jesús Galindo-Zaldívar, and Antonio Pedrera
 Stress distribution in a continental collision: the northwestern Betic Cordillera transect
- XL362 EGU2011-4829
 Antonio Pedrera, **A. Ruiz-Constán**, **J. Galindo-Zaldívar**, A. Chalouan, C. Sanz de Galdeano, C. Marín-Lechado, P. Ruano, M. Benmakhlouf, M. Akil, A.C. López-Garrido, A. Chabli, and M. Ahmamou, L. González-Castillo
 Pliocene to Present-day stress field along the western Gibraltar orogenic arc and geodynamics implications
- XL363 EGU2011-12712
Alejandra Staller, Belén Benito, José Jesús Martínez-Díaz, Jorge Gárate, and Laura Wallace
 Kinematic model of crustal deformation in the Ibero-Maghreb region: Insights from geodetic, geophysical and geologic data.
- XL364 EGU2011-3822
Guillermo Booth-Rea, Lahcen Asebriy, Antonio Jabaloy, Ali Azdimoussa, Mercedes Vázquez-Vílchez, and José Miguel Martínez-Martínez
 What is the fate of STEP faults? The disappearing Nekor fault in the Eastern Rif, Morocco
- XL365 EGU2011-4040
Antonio Jabaloy Sánchez, Ali Azdimoussa, Guillermo Booth-Rea, Lahcen Asebriy, Mercedes Vázquez-Vílchez, and José Miguel Martínez-Martínez
 Extensional detachments in the external Rif: a mode of upper-crustal extension during oblique collision (Temsamane units, eastern Rif, Morocco)
- XL366 EGU2011-13741
 Mercedes Vázquez, **Antonio Jabaloy**, Luis Barbero, and Finlay M. Stuart
 Differential exhumation of the Nevado-Filábride Complex (Betic Cordillera, Southern Spain): evidence from apatite (U-Th)/He thermochronology and apatite fission tracks

- XL367 EGU2011-13984
 María Teresa Gómez-Pugnaire, Daniela Rubatto, Juan Manuel Fernández-Soler, Antonio Jabaloy, **Vicente López Sánchez-Vizcaíno**, Francisco González-Lodeiro, Jesús Galindo-Zaldívar, and José Alberto Padrón-Navarta
 U-Pb zircon geochronology of gneisses of the Betic Cordillera, Spain: Evidences of recycled Variscan crust during the Alpine orogeny
- XL368 EGU2011-2991
Carlos J. Garrido, Frédéric Gueydan, Guillermo Booth-Rea, Jacques Precigout, Karoly Hidas, José Alberto Padrón-Navarta, and Claudio Marchesi
 Garnet Lherzolite and Garnet-spinel mylonite in the Ronda Peridotite: Vestiges of Oligocene Back-arc mantle lithospheric extension in the Western Mediterranean
- XL369 EGU2011-4027
Karoly Hidas, Guillermo Booth-Rea, Carlos J. Garrido, and José Miguel Martínez-Martínez
 Folding and shearing of the lithospheric mantle prior to Ronda peridotite intracrustal emplacement
- XL370 EGU2011-8141
Erwin Frets, Carlos Garrido, Andrea Tommasi, Jean-Louis Bodinier, Isma Amri, and Kamal Targuisti
 Structural Petrology of the Beni Bousera Peridotite (Betic-Rif Belt, N Morocco)
- XL371 EGU2011-4894
Zoltan Konc, Carlos J. Garrido, Andrea Tommasi, Karoly Hidas, Claudio Marchesi, and Csaba Szabo
 Deformation Record of Upper Mantle Peridotite Xenoliths from SE Iberian Volcanic Province (Spain)
- XL372 EGU2011-3987
Claudio Marchesi, Carlos J. Garrido, Delphine Bosch, Jean-Louis Bodinier, Karoly Hidas, José A. Padrón-Navarta, and Fernando Gervilla
 A Late Oligocene supra-subduction setting for the Westernmost Mediterranean revealed by andesite-derived mantle pyroxenite in the Ronda peridotite (S Spain)
- XL373 EGU2011-12655
 Elisabetta Rampone, Reinoud L.M. Vissers, and **Alberto Zanetti**
 Evidence for silica-saturated melts in the Tallante mantle xenoliths (SE Spain): Inferences on their origin and geodynamic significance
- XL374 EGU2011-9295
 Antonio Álvarez-Valero, **Leo Kriegsman**, Youssef Driouch, Mohamed Dahire, Ali Moukadiri, Ahmed Ntarmouchant, Stéphanie Duchene, and Jean-Luc Severac
 Xenoliths as constraints on crustal architecture and melting levels in southern Spain and northern Morocco

GD6.1/GMPV55/SM1.12/TS4.6 – Whole mantle dynamics: Linking surface and deep processes (co-organized) – Orals

Convener: Trond Torsvik | Co-Conveners: Rob Van der Voo, Clinton Conrad, Mike Gurnis

Room: 22

Chairperson: T.H. Torsvik and C. Gaina

- 08:30–08:45 EGU2011-4392
Allen McNamara and Edward Garnero
 Long Lived Compositional Reservoirs: Their Evolution in a Cooling Earth and Hypothesis Tests for their Existence
- 08:45–09:00 EGU2011-4850
Reidar G. Trønnes
 Composition, mineral physics and origin of thermochemical piles in the D" zone
- 09:00–09:15 EGU2011-12247
Marcus Beuchert, Harro Schmeling, and Meysam Shahraki
 Influence of Large Low Shear Velocity Provinces in the lower mantle on the geoid
- 09:15–09:30 EGU2011-2591
Rob Van der Voo and Trond H Torsvik
 Linking surface and deep processes in the Paleozoic
- 09:30–09:45 EGU2011-958
John Crowley and Richard O'Connell
 An analytic model for thermal convection with plates and the implications for plate-mantle coupling and the thermal evolution of the Earth
- 09:45–10:00 EGU2011-2381
Stephanie C. Werner and Kevin Burke
 Distribution of volcanism, topographic and geoid highs on terrestrial bodies: A comparison

COFFEE BREAK

Chairperson: R. Van der Voo and A. McNamara

- 10:30–10:45 EGU2011-3216
Bernhard Steinberger and Trond H. Torsvik
 A geodynamic model of plumes from the margins of Large Low Shear Velocity Provinces
- 10:45–11:00 EGU2011-3676
Peter Webb, Huw Davies, and Rhodri Davies
 Identifying the origin of seismic anomalies using 300Myr plate motion history in mantle circulation models
- 11:00–11:15 EGU2011-3849
Julian Lowman, Scott King, and Sean Trim
 The influence of plate boundary motion on mantle planform and heat flux in viscously stratified convection models
- 11:15–11:30 EGU2011-2438
Clinton Conrad, Bernhard Steinberger, and Trond Torsvik
 Past Mantle Dynamics Revealed by Net Characteristics of Surface Plate Motions
- 11:30–11:45 EGU2011-5704
Laurent Husson, Clinton P. Conrad, and Claudio Faccenna
 On the consistency between Andean dynamics and mantle flow in the South Atlantic
- 11:45–12:00 EGU2011-4492
Carmen Gaina, Trond H. Torsvik, Steven Cande, Marcel Croon, and Pavel V. Dubrovine
 Global Plate Circuits at Paleocene-Eocene time

GD6.2/GMPV50/SM4.3 – Whole mantle and transition zone structure, dynamics and evolution: multidisciplinary perspectives (co-organized) – Orals

Convener: Paul Tackley | Co-Conveners: Sergio Speziale, Lapo Boschi, Andreas Stracke, Huw Davies, FUMIKO TAJIMA, Heiner Igel, Hitoshi Kawakatsu, Fenglin Niu

Room: 22

Chairperson: Paul Tackley and Fumiko Tajima

- 13:30–13:45 EGU2011-3744
Ilaria Mosca, Laura Cobden, Carolina Lithgow-Bertelloni, Arwen Deuss, Jeroen Ritsema, Lars Stixrude, and Jeannot Trampert
 Thermo-chemical structures in the lower mantle from body wave, surface wave and normal-mode data
- 13:45–14:00 EGU2011-9081
Ulrich Hansen and Sabine Dude
 Dynamical mechanisms behind Reservoir formation
- 14:00–14:15 EGU2011-5444
Andreas Stracke, Jon E. Snow, Eric Hellebrand, Anette von der Handt, Bernard Bourdon, Karin Birbaum, and Detlef Günther
 Extreme mantle depletion identified by Hf isotope ratios in abyssal peridotites
- 14:15–14:30 EGU2011-8731
 Frédéric Deschamps, **Paul Tackley**, and Edouard Kaminski
 Deep mantle primitive reservoirs as a partial source of Ocean Island Basalt
- 14:30–14:45 EGU2011-13626
Finlay Stuart
 Helium isotope evolution of the Iceland plume
- 14:45–15:00 EGU2011-8312
Cai Durbin, M. Hosein Shahnas, William R. Peltier, and John H. Woodhouse
 Mantle Convection Models Constrained by Seismic Tomography
- Chairperson: Fumiko Tajima and Paul Tackley
- 15:30–15:45 EGU2011-4592
Tobias Rolf and Paul Tackley
 Stability of Archaean cratons and their influence on the global strength of the lithosphere
- 15:45–16:00 EGU2011-3652
J. Huw Davies and Martin Wolstencroft
 What role have phase changes played in mantle evolution?
- 16:00–16:15 EGU2011-12012
David A. Thompson, George Helffrich, Ian D. Bastow, and J.-Michael Kendall
 Limits on lateral thermal and chemical gradients under the Canadian Shield
- 16:15–16:30 EGU2011-13310
Michael Kendall, Andy Nowacki, James Wookey, and Asher Pemberton
 Transition zone anisotropy near regions of subduction
- 16:30–16:45 EGU2011-6157
Luciana Bonatto, Martin Schimmel, Josep Gallart, and José Morales
 Mapping the Upper Mantle Transition Zone beneath the Iberian Peninsula and North Africa

16:45–17:00 EGU2011-6825

Simon Stähler, Karin Sigloch, Fumiko Tajima, and Heiner Igel

Sampling the mantle transition zone beneath North America with regional P-waves from the USArray

GD7.1/EMR12/GMPV18/SM4.6 – Structure, Composition and Dynamics of the Deep Earth (co-organized) – Posters

Convener: Jon Mound | Co-Conveners: Arwen Deuss, Michael Ammann, Hauke Marquardt

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Jon Mound and Hauke Marquardt

A69 EGU2011-692

Stefanie Hempel, Christine Thomas, and Razvan Caracas

The lowermost mantle beneath Bering Sea - P wave study and inversion for mineralogy of D

A70 EGU2011-9238

Dmitry Krasnoshchekov and Vladimir Ovtchinnikov

PKiKP/PcP amplitude ratios interpreted in terms of core-mantle boundary reflecting properties

A71 EGU2011-12930

Daniele Antonangeli, Julien Siebert, Chantel M. Aracne, Daniel L. Farber, Alexey Bosak, Moritz Hoesch, Michael Krisch, Frederick J. Ryerson, Guillaume Fiquet, and James Badro

Spin Crossover in Ferropiclsilicate at High Pressure: A Seismologically Transparent Transition?

A72 EGU2011-12508

Hauke Marquardt, Arianna Gleason, Katharina Marquardt, Sergio Speziale, Lowell Miyagi, Gregor Neusser, Hans-Rudolf Wenk, and Raymond Jeanloz

Elastic Properties of Nano-crystalline MgO Powder to High Pressures by Brillouin Light Scattering

A73 EGU2011-2925

Junkee Rhie, Tae-Gyu Yee, and Seongryong Kim

The velocity structure of the core constrained by joint analysis of differential travel times and differential ray parameters of PKP(BC)-PKP(DF)

A74 EGU2011-6715

Jon Mound

Inter-Annual Torsional Oscillations and Angular Momentum Exchange

A75 EGU2011-8847

Luis Silva

Core flow estimates and inner-core growth patterns

A76 EGU2011-11517

Tobias Trümper, Martin Breuer, and Ulrich Hansen

Numerical simulations of thermo-chemically driven convection and geodynamos

A77 EGU2011-12565

Julien Roch, Eric Clévéde, Geneviève Roult, Jean Paul Montagner, and Philippe Lognonné

Deep structure of the Earth : from the lower mantle to the inner core

Friday, 08 April

GD1.1/BG8.3/GMPV44/TS1.3 – Early Earth: from deep dynamics to surface life (co-organized) – Orals

Convener: Jeroen van Hunen | Co-Conveners: Emmanuelle J. Javaux, Nicolas Flament, Nicholas T. Arndt

Room: 22

Chairperson: n.n.

- 08:30–08:45 EGU2011-1488
Evgenii Sharkov
Origin and development of the Earth's core: Evidence from the Earth's tectonomagmatic evolution and paleomagnetic data
- 08:45–09:00 EGU2011-3571
Alexandra Moeller and Uli Hansen
Influence of rotation on iron particles in an early magma ocean
- 09:00–09:15 EGU2011-8663
Renaud Deguen and Peter Olson
Fragmentation, mixing, and chemical equilibration in a magma ocean - Insights from fluid dynamics experiments
- 09:15–09:30 EGU2011-12662
John A. Tarduno, Rory D. Cottrell, and Martin J. Van Kranendonk
Observational constraints on the onset and strength of the early Earth's magnetic field
- 09:30–09:45 EGU2011-4449
Sergei Pisarevsky
Paleogeography of the Early Earth and Paleomagnetic Data
- 09:45–10:00 EGU2011-13081
Natalia Lubnina and Alexander Slabunov
Neoproterozoic Supercontinent Kenorland: paleomagnetic and geologic evidence

COFFEE BREAK

Chairperson: n.n.

- 10:30–11:00 EGU2011-2180
Hugh Rollinson
Are plumes an appropriate mechanism for Archaean continent creation ?
- 11:00–11:15 EGU2011-6223
Jeroen van Hunen and Jean-Francois Moyen
Short-term episodicity of Archaean subduction?
- 11:15–11:30 EGU2011-7916
Jaana Halla
Sanukitoid granitoids as indicators of accretionary tectonics from the late Mesoproterozoic to the Archean-Proterozoic boundary
- 11:30–11:45 EGU2011-5387
Nicholas T. Arndt, Janne Blichert-Toft, Martin Guitreau, and Francis Albarède
Formation of the Continental Crust
- 11:45–12:00 EGU2011-5281
Nicolas Flament, Patrice Rey, Nicolas Coltice, Gilles Dromart, and Nicolas Olivier
Subaqueous Archean continental flood basalts were emplaced on hot continental crust

GD1.2/TS9.2 – Recent advances in modelling of tectonic processes (including Arne Richter Award for Outstanding Young Scientists Lecture) (co-organized) – Orals

Convener: Susanne Buiter | Co-Conveners: Marcin Dabrowski, Ernst Willingshofer, Yossi Mart, Guido Schreurs, Dave May, Frederic Gueydan, Dimitrios Sokoutis

Room: 41

Chairperson: n.n.

- 15:30–15:45 EGU2011-4556
Gregory A. Houseman, Piroska Lorinczi, and Lynn A. Evans
Numerical Experiments on the Gravitational Instability of Continental Lithosphere

- 15:45–16:00 EGU2011-6545
Louis Moresi
Numerical modeling of strike-slip deformation
- 16:00–16:15 EGU2011-7961
Fabio Cramer, Susanne Buiter, Thibault Duretz, Taras Gerya, Gregor Golabek, Boris Kaus, Robert Orendt, Harro Schmeling, and Paul Tackley
A benchmark comparison of numerical topography: what are suitable sticky-air parameters?
- 16:15–16:30 EGU2011-4380
Keely A. O'Farrell, Julian P. Lowman, and Hans-Peter Bunge
Comparison of isoviscous and viscously stratified spherical shell and plane-layer convection calculations
- 16:30–16:45 EGU2011-9874
Lena Noack and Doris Breuer
Damped Frank-Kamenetskii Approximation for Modelling of Terrestrial Planets with High Surface Temperatures (Venus) or Large Masses (Super-Earths)
- 16:45–17:00 EGU2011-9412
Benjamin Huet, Laetitia Le Pourhiet, Loïc Labrousse, Evgenii Burov, and Laurent Jolivet
Core complex formation in a crustal wedge. Thermomechanical models and applications

ERE3.2/GD1.3/GMPV53 – Mineral systems: from geological, geochemical and geophysical data to metallogenic systems simulation (co-organized) – Orals

Convener: Christopher Juhlin | Co-Conveners: Gilles Bellefleur, Klaus Gessner, Mark Jessel, Robert P. Moritz, Peter Sorjonen-Ward, Olivier Vanderhaeghe, Pär Weihed

Room: 3

Chairperson: Chris Juhlin, Gilles Bellefleur

- 08:30–08:45 EGU2011-71
Alireza Malehmir and Gilles Bellefleur
Reflection seismic studies of mineral deposits and their host-rock structures: two case studies from Sweden and Canada
- 08:45–09:00 EGU2011-4578
Kreshimir N. Malitch and Rais M. Latypov
New insights on the origin of ultramafic-mafic intrusions and associated PGE-Cu-Ni sulphide deposits of the Talnakh ore junction (Noril'sk province, Russia): geophysical and geochronological evidence
- 09:00–09:15 EGU2011-4854
Ernst Schetselaar, Don White, Doreen Ames, Eric de Kemp, Eric Grunsky, Sally Pehrsson, Christine Devine, Michal Malinowski, Jennie Byron, and Harold Gibson
A Framework for 3D Multiparameter Mapping of VMS Ore Systems illustrated with a Case Study from the Flin Flon Mining District, Trans-Hudson Orogen, Canada
- 09:15–09:30 EGU2011-2197
Michal Malinowski, Don White, and Ernst Schetselaar
3-D seismic modelling in the Flin Flon mining camp, Canada
- 09:30–09:45 EGU2011-8521
Colin Farquharson, Peter Lelièvre, and Charles Hurich
Unified geophysical and geological 3-D Earth models
- 09:45–10:00 EGU2011-9869
Pietari Skyttä, Tobias Hermansson, Jenny Andersson, and Pär Weihed
Age constraints on mineralization and deformation processes in the Palaeoproterozoic Skellefte District, Sweden

COFFEE BREAK

Chairperson: Olivier Vanderhaeghe, Peter Sorjonen-Ward

- 10:30–10:45 EGU2011-10123
Justine Jaguin, Marc Poujol, Denis Gapais, Philippe Boulvais, and Jean-François Moyen
DEFORMATION/MINERALIZATION (Sb) COUPLING WITHIN THE MURCHISON GREENSTONE BELT, SOUTH AFRICA
- 10:45–11:00 EGU2011-2422
Romain Tartèse, Philippe Boulvais, Marc Poujol, and Eric Gloaguen
The late Carboniferous Variscan evolution of the Armorican Massif (France): magmatism, hydrothermalism and metallogenic consequences

- 11:00–11:15 EGU2011-4319
Alison Ord, Bruce Hobbs, and Dan Lester
 The Development of Redox-pH-fronts in Hydrothermal Systems
- 11:15–11:30 EGU2011-4101
Olivier Vanderhaeghe, Fabre Cécile, Moyen Jean-François, André-Mayer Anne-Sylvie, Barbey Pierre, and Cuney Michel
 Cratons radioactivity, crustal growth, paleogeotherms and metallogenic provinces
- 11:30–11:45 EGU2011-7616
John Grocott, Armelle Kloppenburg, and David Hutchinson
 Quantitative Structural Modelling to Determine a Valid Kinematic Framework for the Cu-Au-Mo Porphyry Mineralisation System at Bingham Canyon, Utah, USA
- 11:45–12:00 EGU2011-2966
Mark Lindsay, Stéphane Perrouy, Mark Jessell, Laurent Aillères, Eric deKemp, and Peter Betts
 Model space exploration of the Ashanti Greenstone Belt, southwestern Ghana

ERE3.2/GD1.3/GMPV53 – Mineral systems: from geological, geochemical and geophysical data to metallogenic systems simulation (co-organized) – Posters

Convener: Christopher Juhlin | Co-Conveners: Gilles Bellefleur, Klaus Gessner, Mark Jessel, Robert P. Moritz, Peter Sorjonen-Ward, Olivier Vanderhaeghe, Pär Weihed

Hall XL | Display Time 08:00–17:00

Author in Attendance: 15:30–17:00

Chairperson: Pär Weihed, Olivier Vanderhaeghe, Chris Juhlin

- XL138 EGU2011-35
Alexander Rodnikov, Natalia Sergeyeva, and Ludmila Zabarinskaya
 Geodynamic and Metallogeny in the Pacific Mobil Belt
- XL139 EGU2011-223
Mahdieh Dehghannejad, Tobias Bauer, Alireza Malehmir, Christopher Juhlin, Rodney Allen, and Pär Weihed
 Reflection seismic imaging to construct a 3D/4D geological model of the Skellefte Ore District, northern Sweden
- XL140 EGU2011-689
María de los Ángeles García Juanatey, Peter Hedin, Juliane Hübert, Ari Tryggvason, and Christopher Juhlin
 MT and seismic reflection data in northwestern Skellefte Ore District, northern Sweden.
- XL141 EGU2011-5999
Changryol Kim and Ho-Sung Yoon
 Integrated Geophysical Investigations of the Uranium Deposit in the Okcheon Metamorphic Belt in Korea
- XL142 EGU2011-6130
Jeongsul Son, Jungho Kim, and Samgyu Park
 Complex resistivity survey for mineral exploration using L1 norm inversion
- XL143 EGU2011-6544
Samgyu Park, Jeong-Sul Son, Seong-Jun Cho, Jung-Ho Kim, and Changryol Kim
 Application of Electrical Resistivity Survey for Detecting the Skarn Ore Body
- XL144 EGU2011-7934
 Inna Yu. Badanina and **Kreshimir N. Malitch**
 Origin of platinum-group mineral (PGM) nuggets from the Bor-Uryakh massif (Maimecha-Kotui Province, Russia): evidence from mineral composition
- XL145 EGU2011-9436
Anikina Elena and Gamyanin Gennady N.
 Features of formation of silver-polymetallic deposits of Kolyma-Verkhoyansk fold belt (Russia)
- XL146 EGU2011-9573
Klaus Gessner, Vanessa Markwitz, and Alok Porwal
 Structural controls on hydrothermal mineralization in the Menderes Massif, western Turkey
- XL147 EGU2011-11785
Elena Amplieva, Viktor Ivanov, Viktor Beltenev, and Irina Dobretsova
 Semenov submarine hydrothermal massive sulfide cluster (13°31'N, Mid-Atlantic Ridge)
- XL148 EGU2011-13150
Lena V. S. Monteiro, Carolina P. N. Moreto, André L. S. Pestilho, Caetano Juliani, Roberto P. Xavier, and Anthony E. Fallick
 Evolution of iron oxide-copper-gold deposits from the Southern Copper Belt, Carajás Mineral Province, Brazil
- XL149 EGU2011-13595
Luis Alva-Valdivia
 The Peña Colorada iron oxide-ores, México: Petrological characterization

- XL150 EGU2011-2755
Gilles Bellefleur, Eric de Kemp, Jean Goutier, and Michel Allard
 Seismic Imaging of the Geological Framework and Structures Related to Volcanogenic Massive Sulfide Deposits in the Archean Rouyn-Noranda District, Québec, Canada
- XL151 EGU2011-7534
Pietari Skyttä, Tobias Bauer, Saman Tavakoli, Pär Weihed, Rodney Allen, Mahdiah Dehghannejad, Maria García Juanatey, and Juliane Hübner
 Multiscale 3/4D-modelling of mineral belts - examples from the Skellefte Mining District, Sweden
- XL152 EGU2011-11434
Eevaliisa Laine, Jouni Luukas, Aimo Ruotsalainen, Ilkka Suppala, Jukka Kousa, and Raimo Lahtinen
 3D modeling of the bedrock surrounding the Lampinsaari and Kuuhkamo Zn-Cu deposits in the Vihanti area, Finland
- XL153 EGU2011-1183
Tola Mirza
 Genesis of white acidic intrusion in Mawat Ophiolite Complex, Kurdistan Region, NE Iraq
- XL154 EGU2011-5355
Weronika Gorczyk, Bruce Hobbs, Guizhi Zhu, Klaus Gessner, and Alison Ord
 INTRA-CRATONIC Lithosphere HETEROGENEITIES, FAULTING and Rayleigh-Taylor Instabilities - insight from 3D numerical modelling
- XL155 EGU2011-29
 mohamadali rajabzadeh and **soqra rasti**
 Mineralization study on Iron deposits from Dehbid area, Fars province, South Iran: Geochemical and mineralogical data
- XL156 EGU2011-236
susan ebrahimi
 Geology, mineralogy and fluid characteristics of the Masjed Daghi epithermal gold deposit, NW Iran
- XL157 EGU2011-318
Seyedeh Zahra Afshooni, Dariush Esmaeili, and Hooshang Asadi Haroni
 The study of mineralogical in Kahang exploration area (NE Isfahan)
- XL158 EGU2011-1222
Dicle Bal Akkoca and Sevcin Kürüm
 Regional Variations in Clay Mineralogy and Geochemistry of Mn-Rich Marine Clays from Maden-Hazar Basin in the Neotethys, (Eastern Turkey)
- XL159 EGU2011-4100
Julie Machault, Luc Barbanson, Thierry Augé, Laurent Bailly, and Alexandre Felicio
 Traceability of concentrate: characterization of microfacies and consideration of mineral processing
- XL160 EGU2011-3799
Benoit Rivard, Derek Rogge, Jilu Feng, Brian Grant, and Jamie Pardie
 Hyperspectral sensing in support of mineral exploration in the arctic: example from the Cape Smith Nickel belt, Canada
- XL161 EGU2011-5412
Arnaud Pecher, Nicholas Arndt, Arthur Bauville, Clément Ganino, Mei-fu Zhou, Iacono Marziano Giada, Gaillard Fabrice, and Charlotte Arthurion
 Pumping Iron from a Metamorphic Aureole into an Steeply Inclined Dyke-like Intrusion; a New Model for the Formation of the Panzhihua Fe-Ti-V Deposit
- XL162 EGU2011-11958
Nicola Mondillo, Maria Boni, and Giuseppina Balassone
 Supergene Zn-dolomite: an old-new actor on the nonsulphide ore scene

SM2.12/G3.10/GD2.16/TS8.8 – Intraplate faulting and seismicity with special reference to the Fennoscandian postglacial fault province (co-organized) – Orals

Convener: Ilmo T. Kukkonen | Co-Conveners: Maria Ask, Odleiv Olesen

Room: 26

Chairperson: Maria V.S. Ask

- 15:30–15:45 EGU2011-8029
Ilmo T. Kukkonen, Odleiv Olesen, and Maria V.S. Ask
 Introduction to Postglacial Faults and the ICDP Drilling Project (PFDP)
- 15:45–16:00 EGU2011-10399
Björn Lund, Peter Schmidt, Mark D. Zoback, Jens-Ove Näslund, and Raymond Munier
 Stress evolution and fault stability during the Weichselian glacial cycle with special focus on the Fennoscandian endglacial faults
- 16:00–16:15 EGU2011-2329
Odleiv Olesen, Conrad Lindholm, and Halfdan Pascal Kierulf
 Postglacial faulting in Norway: A review

- 16:15–16:30 EGU2011-2819
Christopher Juhlin and Björn Lund
 Reflection seismic imaging of the Pärvie and Burträsk end-glacial faults in northern Sweden
- 16:30–16:45 EGU2011-9825
Eva Lindblom, Björn Lund, Christopher Juhlin, Reynir Bödvarsson, Ari Tryggvason, Marja Uski, and Tormod Kvaerna
 Microearthquake activity on the Pärvie endglacial fault system, northern Sweden
- 16:45–17:00 EGU2011-7141
Elena Kozlovskaya, Olga Usoltseva and the POLENET/LAPNET Working Group Team
 Studying local seismic events in the Fennoscandian postglacial fault province using the data of the POLENET/LAPNET project
- 17:00–17:15 EGU2011-12986
Erik Ivins, Richard Gross, Xiaoping Wu, and Tony Song
 Ocean Load Induced Crustal Stress on Milankovic to Sub-annual Time Scales

SM2.12/G3.10/GD2.16/TS8.8 – Intraplate faulting and seismicity with special reference to the Fennoscandian postglacial fault province (co-organized) – Posters

Convener: Ilmo T. Kukkonen | Co-Conveners: Maria Ask, Odleiv Olesen

Halls X/Y | Display Time 08:00–17:00

Author in Attendance: 10:30–12:00

Chairperson: Ilmo T. Kukkonen

- XY506 EGU2011-10016
Michele MC Carafa, Juerg Hauser, Salvatore Barba, and Hilmar Bungum
 Fennoscandian strain rates and seismicity
- XY507 EGU2011-13496
Maria Ask and Daniel Ask
 Validating hydraulic fracturing data from the Lansjärv postglacial fault, North Sweden
- XY508 EGU2011-8868
Mikhail L. Kopp
 Neotectonic intraplate faulting of the eastern East European craton and the Urals and its relation to collisional stresses come from the southern margin of the Eurasian lithospheric plate
- XY509 EGU2011-2892
Christian Brandes, Julia Roskosch, Janine Meinsen, Jutta Winsemann, Manfred Frechen, and David Tanner
 Reactivation of the Osning Thrust in Central Europe: ice-sheet and lithosphere interactions during the LGM
- XY510 EGU2011-847
Rebekka Steffen, David W. Eaton, and Patrick Wu
 Moment tensors, state of stress and their relation to postglacial rebound in northeast Canada
- XY511 EGU2011-5965
Mathilde Sørensen, Lars Ottemöller, and Jens Havskov
 Earthquake swarms in northern Norway

GD6.1/GMPV55/SM1.12/TS4.6 – Whole mantle dynamics: Linking surface and deep processes (co-organized) – Posters

Convener: Trond Torsvik | Co-Conveners: Rob Van der Voo, Clinton Conrad, Mike Gurnis

Hall A | Display Time 08:00–17:00

Author in Attendance: 10:30–12:00

Chairperson: C. Conrad

- A24 EGU2011-2828
Masaki Yoshida
 Future supercontinent assembled in the northern hemisphere: Insight from a numerical model of mantle convection
- A25 EGU2011-3795
Gillian Foulger
 Upper mantle mechanisms for the formation of melting anomalies
- A26 EGU2011-4358
Andrew N. Grushinsky
 Modeling of some transitional processes in Earth's mantle
- A27 EGU2011-5476
Xavier Robert
 An integrated model for the post-Laramide evolution of the Grand Canyon and the Colorado Plateau

- A28 EGU2011-6893
Blanka Nita, Magdala Tesauro, Sierd Cloetingh, Mikhail Kaban, and Edward Perchuc
Regional mantle structure below the European continent resulting from complex lithospheric geodynamic processes
- A29 EGU2011-8397
Romain Beucher, Roderick Brown, Cristina Persano, Finlay Stuart, and Kerry Gallagher
New insights into the age of the first-order topography of southern Africa from apatite (U-Th)/He and fission track dating of a deep borehole sequence through the Kaapvaal craton
- A30 EGU2011-8588
Flora Bajolet, Javier Galeano Prieto, Ana-María Negredo, Francesca Funiciello, Monica Moroni, and Claudio Faccenna
Continental delamination: Insights from laboratory models
- A31 EGU2011-8748
Manuel Combes, Cécile Grigné, Laurent Husson, Sébastien Le Yaouanq, Marc Parenthoën, Chantal Tisseau, and Jacques Tisseau
MACMA : Multiagent simulation of mantle convection with evolutive plate boundaries and continents.
- A32 EGU2011-10369
Giancarlo Scalera
Comparing the Andean volcano-seismic events to secular PM and TPW
- A33 EGU2011-10897
Juan-Luis Valera, Ana M. Negredo Moreno, and Ivone Jiménez-Munt
Deep and near-surface consequences of root removal by asymmetric continental delamination: comparison from different initial scenarios
- A34 EGU2011-11075
Fabio Crameri, Paul Tackley, Irena Meilick, Taras Gerya, Boris Kaus, and Tobias Keller
One-sided subduction in self-consistent models of global mantle convection: the importance of a free surface and a weak crustal layer
- A35 EGU2011-11838
Laurent Husson, Stephane Pochat, Antoine Bezos, and Jean Van den Driessche
Dynamic topography, endoreism, and the 87Sr/86Sr curve
- A36 EGU2011-12912
István Kovács, Beatrix Udvardi, Károly Hidas, Lászlóné Kutassy, Pál Lendvay, György Falus, and Csaba Szabó
Re-evaluating the concentration of water in olivines from the shallow upper mantle with a uniform FTIR protocol and a unique international spectral database: PULI
- A37 EGU2011-13444
Nick J. Kusznir and Trond H. Torsvik
A Lithospheric Attractor of Mantle Plume Volcanism in the NW Indian Ocean

GD6.2/GMPV50/SM4.3 – Whole mantle and transition zone structure, dynamics and evolution: multidisciplinary perspectives (co-organized) – Posters

Convener: Paul Tackley | Co-Conveners: Sergio Speziale, Lapo Boschi, Andreas Stracke, Huw Davies, FUMIKO TAJIMA, Heiner Igel, Hitoshi Kawakatsu, Fenglin Niu

Hall A | Display Time 08:00–17:00

Author in Attendance: 10:30–12:00

Chairperson: n.n.

- A38 EGU2011-11809
Jesus Casal Berbel and **Christine Thomas**
New insights into the D" layer beneath the central Pacific
- A39 EGU2011-8593
Paul Tackley
The 3-D dynamics of compositionally-stratified slabs entering a "slab graveyard"
- A40 EGU2011-8635
Paul Tackley and Takashi Nakagawa
Effects of low-viscosity post-perovskite on thermo-chemical mantle convection in a 3-D spherical shell
- A41 EGU2011-12434
Frédéric Deschamps, **Paul Tackley**, Yang Li, and Takashi Nakagawa
The nature and dynamics of deep mantle thermo-chemical reservoirs
- A42 EGU2011-10795
Hein van Heck and **Paul Tackley**
The limited effect of toroidal flow on mixing efficiency in 3-D spherical mantle convection.
- A43 EGU2011-3989
Claudia Stein and Ulrich Hansen
Evolution in plate-mode mantle convection: Implications for plumes and thermochemical piles

- A44 EGU2011-9941
Tiffany Barry and J. Huw Davies
A look at what happened to Tethyan mantle during closure of Neo-Tethys
- A45 EGU2011-3012
Philip Heron and **Julian Lowman**
Modelling the thermal evolution of the mantle post-supercontinent formation: insulation effects and timescales
- A46 EGU2011-1643
Shoichi Yoshioka and Aya Naganoda
Numerical simulations on fall of stagnant slabs into the lower mantle
- A47 EGU2011-1787
Fumiko Tajima and Eiji Ohtani
Seismic observation and numerical modeling for the mantle transition zone with stagnant slabs
- A48 EGU2011-2412
Hitoshi Kawakatsu and Shoichi Yoshioka
Direct imaging of the metastable olivine wedge for a deep dry cold slab beneath southwest Japan
- A49 EGU2011-785
Stephan Lessing, Christine Thomas, and Sebastian Rost
Seismic investigation of upper mantle discontinuities under the Indian-Asian collision zone with PP precursors
- A50 EGU2011-411
Mélanie Drilleau, Eric Beucler, Antoine Mocquet, and Olivier Verhoeven
Bayesian approach to infer temperature and mineralogical composition of the transition zone from seismic waveforms
- A51 EGU2011-9077
Fenglin Niu and Xinling Wang
Imaging the mantle transition zone beneath eastern and central China with CArray receiver functions
- A52 EGU2011-8864
Alessandra Correale, **Mauro Martelli**, Antonio Paonita, Andrea Rizzo, Lorenzo Brusca, and Vittorio Scribano
Metasomatism and degassing processes in the Hyblean heterogeneous mantle, as inferred from noble gas investigation of ultramafic xenoliths
- A53 EGU2011-2490
Christoph Hauzenberger and Juergen Konzett
Melt triggered deformation of the upper mantle: examples from xenoliths from Kimberley, South Africa and the Letseng-la-Terae kimberlite, Lesotho (UNESCO IGCP 557)
- A54 EGU2011-6747
Igor Ashchepkov, Theodoros Ntaflos, Dmitri Ionov, Lyudmila Pokhilenko, Nikolai Vladyskin, Sergey Kuligin, Sergey Mityukhin, and Stanislav Plessky
Mantle structure and composition beneath Udachnaya pipe reconstructed by mantle xenoliths from the brown breccia
- A55 EGU2011-6595
Barbara Faccini, Massimiliano Melchiorre, Massimo Coltorti, and Costanza Bonadiman
Nature and evolution of Northern Victoria Land subcontinental lithospheric mantle (Antarctica)
- A56 EGU2011-10429
Igor Ashchepkov, Hilary Downes, Nikolai Vladyskin, Roger Mitchell, Stanislav Plessky, and Elena Nigmatulina
Mantle sequences beneath Colorado from xenocrysts from Sloan and Kelsey lake kimberlites.

GD7.1/EMR12/GMPV18/SM4.6 – Structure, Composition and Dynamics of the Deep Earth (co-organized) – Orals

Convener: Jon Mound | Co-Conveners: Arwen Deuss, Michael Ammann, Hauke Marquardt

Room: 22

Chairperson: Jon Mound and Hauke Marquardt

- 13:30–13:45 EGU2011-3592
Renaud Deguen, Thierry Alboussière, Philippe Cardin, and Mickael Melzani
Convection, melting and the structure of the inner core and lowermost outer core
- 13:45–14:00 EGU2011-11177
Chris Finlay
A geomagnetic perspective on core structure and dynamics
- 14:00–14:15 EGU2011-2631
Seiki Asari and Vincent Lesur
Radial vorticity constraint in the core flow modeling
- 14:15–14:30 EGU2011-3068
Pavel Hejda and Alexander P. Anufriev
Compressibility effects in the Earth's core convection

- 14:30–14:45 EGU2011-7944
Phil Livermore and Rainer Hollerbach
An excitation mechanism for torsional oscillations on the tangent cylinder
- 14:45–15:00 EGU2011-7159
Alexandre Fournier, Julien Aubert, and Erwan Thébault
A proposal for the selection of numerical dynamo models for data assimilation practice
Chairperson: Hauke Marquardt and Jon Mound
- 15:30–15:45 EGU2011-11437
George Helffrich and Satoshi Kaneshima
Outer core compositional stratification
- 15:45–16:00 EGU2011-5442
Dmitry Krasnoshchekov, Vladimir Ovtchinnikov, and Petr Kaazik
Observational evidence for cylindrical anomaly of seismic velocity in the Earth's outer core
- 16:00–16:15 EGU2011-1480
Andrew Walker, Andrew Nowacki, Alessandro Forte, James Wookey, and J-Michael Kendall
Can seismic anisotropy in D" be used to constrain flow patterns in the lowermost mantle?
- 16:15–16:30 EGU2011-5066
Nico De Koker
Thermal Conductivity of the Lowermost Mantle
- 16:30–16:45 EGU2011-5380
Gabriele Morra, **Dave Yuen**, and Fabio Cammarano
Necking of Plume Conduits and Severing of Plumeheads due to Non-Monotonic Plume Structure and Density Structure
- 16:45–17:00 EGU2011-11666
Nicola Tosi and **David Yuen**
Branching of plumes at 660 km discontinuity and bounds on lateral viscosity contrast in the lower mantle

GM2.2/NH10.3/PS10.2 – Digital Landscapes: From Laser Scanning and High-resolution Measurement Technologies to Quantitative Interrogation of Geomorphic Processes (co-listed) – Orals

Convener: John K. Hillier | Co-Conveners: Sanjeev Gupta, Lara Kalnins, David Mason, Paolo Tarolli, Paola Passalacqua, Dirk Rieke-Zapp, Balázs Székely, Bernhard Höfle, Norbert Pfeifer, Jim Chandler, Alexander Reiterer

Room: 21

Chairperson: n.n.

- 10:30–10:45 EGU2011-633
Elina Kasvi, Hannu Hyypä, Anttoni Jaakkola, Joni Mäkinen, Juha Hyypä, and Petteri Alho
Estimating sediment features and hydraulic parameters on a sand bedded point bar using LiDAR height and intensity and high resolution UAV-based images
- 10:45–11:00 EGU2011-9479
Sarah Derouin and Lucille Piety
Seeing faults through the trees: A case study on using LiDAR in highly vegetated areas to determine fault activity and geomorphology
- 11:00–11:15 EGU2011-4647
Francesco Zucca, Fabio Remondino, Giorgio Agugiaro, Marco Franceschi, Davide Zizioli, and Christian Peloso
Mapping the vertical: Oblique LIDAR acquisition for mapping Dolomites cliff (NE Italy)
- 11:15–11:30 EGU2011-11858
Christoph Siart, Markus Forbriger, and Matthieu Ghilardi
Fusing surface and subsurface geodata: a case study on Cretan karst landforms
- 11:30–11:45 EGU2011-10198
Robert Barneveld
Measuring microtopography with Terrestrial Laser Scanning: Aspects of data quality
- 11:45–12:00 EGU2011-7933
Gottfried Mandlbauer, Johannes Otepka, Wilfried Karel, Markus Hollaus, Camillo Ressler, Alexander Haring, Christian Brieke, Gabor Molnar, and Bernhard Höfle
OPALS - a comprehensive laser scanning software for geomorphological analysis

LUNCH BREAK

Chairperson: n.n.

- 13:30–13:45 EGU2011-11459
Jean-Stephane Bailly and Carole Delenne
 Riverbed image simulation for a better exploration of coarse-grained sediment sizing image analysis methods
- 13:45–14:00 EGU2011-3631
Thomas Dewez, Christian Mathon, Hiromi Kobayashi, Aude Nachbaur, Olivier Sedan, Frederic Berger, Emilie Nowak, and Emmanuel Des Garets
 Real-size rockfall trajectory and derived mechanical quantities from close-range stereo video experiment in Tahiti, French Polynesia
- 14:00–14:15 EGU2011-1329
Dirk Rieke-Zapp
 In situ measurement of bedrock erosion
- 14:15–14:30 EGU2011-4479
Rafael Caduff, Fritz Schlunegger, Andrew Kos, Charles Werner, and Andreas Wiesmann
 Assessment of precise spatial and temporal slope deformation with the GAMMA Portable Radar Interferometer in the Illgraben debris flow catchment, Central Swiss Alps
- 14:30–14:45 EGU2011-5193
Chih-Ming Tseng, Ching Weei Lin, and Jin King Liu
 Application of High-resolution LiDAR-derived DEM in Landslide Volume Estimation
- 14:45–15:00 EGU2011-4065
David Hodgetts
 Quantitative geology from digital outcrop data for the characterisation of hydrocarbon reservoirs.
- Chairperson: Paola Passalacqua
- 15:30–15:45 EGU2011-10133
Tim Le Bas, Aaron Micallef, and Philippe Blondel
 Use of texture analysis techniques for digital mapping of underwater environments: The case of a submerged karstic landscape offshore Malta.
- 15:45–16:00 EGU2011-5594
Paolo Tarolli and Paola Passalacqua
 The statistical signature of Earth-Surface Processes
- 16:00–16:15 EGU2011-2980
Giulia Sofia, Paolo Tarolli, Federico Cazorzi, and Giancarlo Dalla Fontana
 Channel network identification from high-resolution DTM: a statistical approach.
- 16:15–16:30 EGU2011-7484
John Hillier and Mike Smith
 Testing Quantification Methods with Synthetic Drumlins in a real DEM
- 16:30–16:45 EGU2011-2646
Florent Levavasseur, Jean-Stéphane Bailly, Philippe Lagacherie, Colin François, and Rabotin Michaël
 Uncertainties of water flow-paths in digital cultivated landscape : consequences on overland flows and channel run-off
- 16:45–17:00 EGU2011-9831
Jungrack Kim, ShiYuan Lin, JeongWoo Hong, SangYoon Yun, YougHwi Kim, and HeaWoon Yun
 Very high resolution Martian topographic data processing and its application for virtual reality implementation

GM2.2/NH10.3/PS10.2 – Digital Landscapes: From Laser Scanning and High-resolution Measurement Technologies to Quantitative Interrogation of Geomorphic Processes (co-listed) – Posters

Convener: John K. Hillier | Co-Conveners: Sanjeev Gupta, Lara Kalnins, David Mason, Paolo Tarolli, Paola Passalacqua, Dirk Rieke-Zapp, Balázs Székely, Bernhard Höfle, Norbert Pfeifer, Jim Chandler, Alexander Reiterer

Hall A | Display Time 08:00–17:00

Author in Attendance: 08:30–10:00

Chairperson: n.n.

- A94 EGU2011-923
Susanne Schnitzer
 Estimation of mass loss due to soil erosion in the Loess Plateau in China: A comparison of the erosion model RUSLE, multi-temporal DEMs and GRACE satellite gravimetry.
- A95 EGU2011-12089
Maximilian Sproß, Erik Bollmann, Andrea Fischer, Lorenzo Rieg, Rudolf Sailer, and Johann Stötter
 Spatial statistical analysis on glacier surface elevation change based on ALS data
- A96 EGU2011-1147
Stefan Harnischmacher and Harald Zepp
 Detection and Quantification of Mining Subsidence in the Ruhr District (Germany) Using Historic Maps and Digital Elevation Models

- A97 EGU2011-12173
Alberto Guarnieri, Nicola Milan, Antonio Vettore, and Paolo Tarolli
A prototype of landslide observatory in the eastern Italian Alps
- A98 EGU2011-12225
Alice Ciulli, Gianluca Chessa, Leonardo Disperati, Simone Gadenz, and Massimo Perna
Topographic units mapping from DEM analysis: evaluation of the Upslope Position Index (UPI) in two Tuscany (Italy) study areas
- A99 EGU2011-12557
Vincenzo D'Agostino and Gabriele Bertoldi
Hazard hierarchization of debris flow sediment source areas
- A100 EGU2011-5309
Paola Passalacqua, Colin P. Stark, Yuichi S. Hayakawa, Zhou Lin, Takashi Oguchi, and Tsuyoshi Hattaji
The objective mapping of channel initiation and landsliding on lidar DTMs in Japan and their interaction with vegetation
- A101 EGU2011-8188
Marco Cavalli, Sebastiano Trevisani, and Lorenzo Marchi
Geomorphometric assessment of spatial sediment connectivity in small alpine catchments
- A102 EGU2011-8286
Marco Cavalli, Sebastiano Trevisani, Beatrice Goldin, Elena Mion, and Lorenzo Marchi
Derivation of channel network of an alpine region from high-resolution DTM: the example of the Autonomous Province of Trento (Italy)
- A103 EGU2011-10449
Markus Thiel, Tobias Heckmann, Florian Haas, and Michael Becht
Quantification of coarse sediment connectivity in alpine geosystems
- A104 EGU2011-3804
Federico Cazorzi, Paolo Tarolli, Giulia Sofia, Alberto De Luca, and Giancarlo Dalla Fontana
Surface water storage in alluvial and urbanized plains: the effectiveness of high resolution topography
- A105 EGU2011-12442
Bastiaan Notebaert, Piégay Hervé, and Alber Adrien
Structural properties of floodplain width in the Rhone catchment: methodology and results
- A106 EGU2011-12580
Svetlana Samsonova and Aleksandr Koshkarev
Eco-geomorphological digital model of Moscow city
- A107 EGU2011-11648
Wolfgang Schwanghart, Geoff Groom, Nikolaus J. Kuhn, and Goswin Heckrath
Automatic identification of water-logged agricultural areas using LiDAR DEMs
- A108 EGU2011-398
pradeep Lodha
GIS based critical watershed analysis for soil conservation management using SWAT model
- A109 EGU2011-14048
Domenica Costantino and Maria Giuseppa Angelini
Production of checked DTM by Terrestrial Laser Scanner (TLS)
- A110 EGU2011-4886
Roderick OHara and Gerhard Neukum
Refined elevation models and reflectance for HRSC images
- A111 EGU2011-10908
Luigi Perotti, **Massimo Lanfranco**, Marco Giardino, and Paolo Zamparutti
Creation and test of a mobile GIS application to support field data collection and mapping activities
- A112 EGU2011-1555
Lorenzo Picco, Paolo Vitti, Luca Mao, Diego Ravazzolo, **Emanuel Rigon**, Johnny Moretto, and Mario Aristide Lenzi
Large Woody Debris measurements, in a gravel bed braided river environment, using Terrestrial Laser Scanner: the Piave River study case.
- A113 EGU2011-3570
Thomas Dewez, Aude Nachbaur, Olivier Sedan, Emilie Nowak, and Emmanuel Des Garets
Monitoring the degradation of weathered volcanic man-made escarpments by close-range photogrammetry in Tahiti, French Polynesia
- A114 EGU2011-4378
Greg Hancock and **Garry Willgoose**
Rapid erosion assessment on disturbed site: Quantification of erosion rates using laser scanning and modelling on a mine waste rock dump
- A115 EGU2011-10667
Dave Favis-Mortlock
The role of high-resolution microtopographic grids in validating the RillGrow model

- A116 EGU2011-12718
Michael Winkler, W. Tad Pfeffer, Klaus Hanke, and Georg Kaser
Close range photogrammetry reveals recession pattern of Kilimanjaro ice cliffs
- A117 EGU2011-12931
Muhammad Anggri Setiawan
Evaluation of interpolation methods in tillage surface area
- A118 EGU2011-13663
Inna Stepanova
On the finding of the earth's surface topography with the help of toda-hierachy
- A119 EGU2011-14050
Sierd de Vries, Roderik Lindenbergh, Sylvie Soudarissanane, and Matthieu de Schipper
Monitoring short term aeolian beach sand transport using terrestrial laser scanning
- A120 EGU2011-410
Tanja Vicovac, Alexander Reiterer, and Dirk Rieke-Zapp
Change Detection of Geological Surfaces by Image-Based Sensor Systems
- A121 EGU2011-6204
Luca Carturan, Simone Calligaro, Alberto Guarnieri, Nicola Milan, Paolo Tarolli, Daniele Moro, Giovanni Baldassi, Federico Cazorzi, Antonio Vettore, and Giancarlo Dalla Fontana
Terrestrial Laser Scanner survey of two small glacial formations in the Eastern Italian Alps
- A122 EGU2011-11627
Hubert Lehner, Christian Briese, and Rudolf Sailer
Radiometric calibration of airborne laser scanning data: case study rockglaciers
- A123 EGU2011-6847
Rudolf Sailer, Erik Bollmann, Johann Stötter, Susanna Hoinkes, Lorenzo Rieg, and Maximilian Spross
Quantification of morphodynamic processes in glaciated and recently deglaciated terrain
- A124 EGU2011-10541
Ekaterina Vsemirnova, Richard Jones, Jiulin Guo, and Kenneth McCaffrey
Quantitative characterization of fracture networks using terrestrial lidar data, an example from high porosity sandstones at Appleby, UK
- A125 EGU2011-10815
Luigi Perotti, Marco Bacenetti, Marco Giardino, and Stefano Marta
Geomorphological and geostructural characterisation of Veny Valley (Courmayeur, Italy) using an integrated field-based, Lidar and Remote Sensing techniques
- A126 EGU2011-8362
Petteri Alho, Matti Vaaja, Elina Kasvi, Antero Kukko, Hannu Hyyppä, Juha Hyyppä, Harri Kaartine, Matti Kurkela, and Claude Flener
Multitemporal MLS data and terrestrial photogrammetry in a change detection of point bars
- A127 EGU2011-12268
Markus Forbriger, Karsten Schitteck, Christoph Siart, and Bernhard Höfle
New approaches in vegetation mapping - use of terrestrial laser scanning on high Andean cushion peatlands
- A128 EGU2011-13847
Andreas Roncat, Balázs Székely, Gábor Molnár, András Zámolyi, Angelika Pocsai, and Camillo Ressler
High-resolution terrestrial laser scanning of temporary small-scale terraces in a dynamic landscape - a pilot study at the Doren landslide
- A129 EGU2011-14039
Andreas Roncat, Yuri Dublyansky, Christoph Spötl, Peter Dorninger, and Norbert Pfeifer
A full-3D laser-scan mapping of a hypogene cave: a morphogenetic study of Märchenhöhle, Austria
- A130 EGU2011-10670
Markus Hollaus, Norbert Pfeifer, Andreas Roncat, and Hieu Van Duong
Analyzing ICESat/GLAS derived terrain roughness parameter using airborne LiDAR data
- A131 EGU2011-8673
Martin Rutzinger, Bernhard Höfle, and Korbinian Kringer
Quality of geomorphological breaklines extracted from airborne laser scanning
- A132 EGU2011-8512
Cristina Castagnetti, Eleonora Bertacchini, **Alessandro Capra**, Marco Dubbini, Riccardo Rivola, and Alessandro Corsini
Integrating LIDAR and terrestrial laser scanning for a detailed description of landslides geomorphology

TS1.1 – Open session: Tectonics and Structural Geology (co-listed) – Orals

Convener: Fabrizio Storti | Co-Conveners: Claudio Rosenberg, Dominique Chardon, Andreas Läufer, Christopher L. Andronicos, Yoann Denele, Fabrizio Balsamo

Room: 28

Chairperson: Dominique Chardon and Yoann Denele

- 08:30–09:00 EGU2011-9324
Christian Teyssier, Donna L. Whitney, and Patrice F. Rey
 Migmatite dome dynamics and the flow of partially molten crust
- 09:00–09:15 EGU2011-6367
Magdala Tesauero, Evgene Burov, Mikhail Kaban, and Sierd Cloetingh
 Ductile crustal flow in Europe's lithosphere
- 09:15–09:45 EGU2011-4950
Micah Jessup and John Cottle
 Strain partitioning, partial melting and mid-crustal flow in the Himalaya
- 09:45–10:00 EGU2011-8176
Annakaisa Korja, Tellervo Hyvönen, Kaisa Nikkilä, Timo Tiira, Taija Torvela, Timo Kilpeläinen, and T. Marjaana Lammi
 Crustal flow - examples from the Paleoproterozoic Svecofennian orogen

COFFEE BREAK

Room: 27

Chairperson: Andreas Läuffer and Fabrizio Balsamo

- 13:30–13:45 EGU2011-13372
Leo Kriegsman
 Deep crustal flow, deformation styles and melt transfer in high-T orogens
- 13:45–14:00 EGU2011-9459
Joachim Jacobs, Benjamin Emmel, Rajeev Kumar, Kosuke Ueda, and Robert J. Thomas
 Pull-apart rift tectonics and exhumation history along the East African continental margin of northern Mozambique: new thermochronological data
- 14:00–14:15 EGU2011-392
Irina Sidorova
 Western Central Asian Transregional structure
- 14:15–14:30 EGU2011-612
Emmanuelle Boutonnet, Philippe Hervé Leloup, Nicolas Arnaud, Jean-Louis Paquette, William Davis, and Keiko Hattori
 New age constraints on the timing of deformation along the right-lateral Karakorum fault (Ladakh).
- 14:30–14:45 EGU2011-2538
Dickson Cunningham
 Intracontinental left-lateral strike-slip faulting and transpressional mountain building in the Beishan-Gobi Altai corridor, Central Asia
- 14:45–15:00 EGU2011-4091
Flavien Choulet, Michel Faure, Dominique Cluzel, Yan Chen, Wei Lin, and Bo Wang
 The role of continental-sized strike-slip faults in the orogenic processes of Central Asia.
- Chairperson: Fabrizio Storti and Claudio Rosenberg
- 15:30–15:45 EGU2011-8270
Ian Watkinson and Robert Hall
 The Palu-Koro and Matano faults, Sulawesi, Indonesia: Evolution of an active strike-slip fault system
- 15:45–16:00 EGU2011-12495
Jan Pleuger and Neil Mancktelow
 Dextral displacement along the Canavese Fault (western segment of the Insubric Fault, Swiss-Italian Alps)
- 16:00–16:15 EGU2011-1792
Yang Chu, Michel Faure, Wei Lin, and Qingchen Wang
 Early Mesozoic intracontinental Xuefengshan Belt, South China: insights from structural analysis of polyphase deformation
- 16:15–16:30 EGU2011-11219
Sara Satolli, Vittorio Scisciani, Paolo Eserstine, Paolo Pace, and Fernando Calamita
 Different styles of fault reactivation in the Central Apennines (Italy)
- 16:30–16:45 EGU2011-10067
Franz Neubauer, Christoph Leitner, Anja Schorn, Johann Genser, Manfred Bernroider, and Sibila Borojevi? Šoštari?
 Emplacement mechanisms of evaporite mélanges: conceptual models and application to the central Northern Calcareous Alps
- 16:45–17:00 EGU2011-7436
Mike Härtel, Marco Herwegh, and Thomas Pettke
 Titanium-in-quartz geothermometry (TitaniQ) in mylonites of the Simplon Fault Zone, Switzerland

TS1.1 – Open session: Tectonics and Structural Geology (co-listed) – Posters

Convener: Fabrizio Storti | Co-Conveners: Claudio Rosenberg, Dominique Chardon, Andreas Läufer, Christopher L. Andronicos, Yoann Denele, Fabrizio Balsamo

Hall XL | Display Time 08:00–17:00

Author in Attendance: 10:30–12:00

Chairperson: Claudio Rosenberg and Chris Andronicos

- XL197 EGU2011-9887
Helga Zeithofer, Konstantin Petrakakis, and Bernhard Grasemann
Polyphase tectonics: New investigations of individual tectonic events and crustal flow in the SW Moldanubian Zone (Austria)
- XL198 EGU2011-3336
Natalia Levashova, Kirill Degtyarev, Mikhail Bazhenov, and Rob Van der Voo
Oroclinal bending in Kazakhstan: paleomagnetism-derived kinematic frame and geologic events
- XL199 EGU2011-4021
Dominique Chardon, Mudlappa Jayananda, and Jean-Jacques Peucat
Lateral constrictional flow of hot orogenic crust: geological and geophysical implications
- XL200 EGU2011-6373
Shuguang Li, Sushu Guo, Yican Liu, Yilin Xiao, **Yongsheng He**, and Shuijiong Wang
Geochronology and geochemistry of leucogranites from the south-east margin of North China Block: Tracing a lower crust flow during continental collision
- XL201 EGU2011-5040
Taylan Sançar, H. Serdar Akyüz, and Cengiz Zabc?
Quaternary Faulting Mechanisms around the Karlova Triple Junction
- XL202 EGU2011-10845
Ram Weinberger, Micahel Gross, Amihai Sneh, and Uri Schattner
Evolving deformation along a transform plate boundary: example from the Dead Sea Fault in northern Israel
- XL203 EGU2011-7281
Ozge Tekesin and Okan Tuysuz
Neotectonic Structures Between Hatay (Antakya) - Samandag Corridor, Southern Turkey
- XL204 EGU2011-3219
Fabio Lentini, Giovanni Barreca, Serafina Carbone, Danilo Cavallaro, and Stefano Branca
Crustal strike-slip kinematics in Sicily (Central Mediterranean)
- XL205 EGU2011-1281
Stefano Tavani, Pablo Granado, and Josep Anton Muñoz
Cenozoic right-lateral transpressional tectonics in the south-verging Western Pyrenees
- XL206 EGU2011-11959
Filippo D'Oriano, Rafael Bartolome, Eulàlia Gràcia, Sara Martínez-Loriente, Joao Duarte, Pedro Terrinha, and Nevio Zitellini
Active tectonics and gravitational phenomena offshore the Atlantic Moroccan Margin.
- XL208 EGU2011-11925
Kai Berglar, Christoph Gaedicke, and Stefan Ladage
The Mentawai forearc sliver off Sumatra: A model for a strike-slip duplex at a regional scale
- XL209 EGU2011-10088
Mickael Bonnin and Andrea Tommasi
Westward migration of San Andreas plate boundary: consequences to the anisotropy in the upper mantle
- XL210 EGU2011-372
Pavel Jilinski and Sergio Luiz Fontes
Influence of Deeper Crustal Structures on Free-air Gravity Anomaly Maps Interpreted from Cross-Product and Angular Differences Method
- XL211 EGU2011-2882
Hsin-Hsiung Wang and Yuan-Hsi Lee
Exhumation History of the Northern Hsuehshan Range and its tectonic implication
- XL212 EGU2011-3800
Nadezhda Priyatkina and Dmitry Lokhov
Structural evolution of the Chekurovka thrust area (NE Siberia) based on 2D Move modeling
- XL213 EGU2011-4570
Yuan Hsi Lee, Chih-Hao Lan, and Timothy Byrne
Segmentation of the Hsuehshan Range, Central Taiwan and its Tectonic Implication Revealing by Low Temperature Thermochronology Data
- XL214 EGU2011-5160
Shannon McAdam and Kevin Mickus
A Gravity and Magnetic Study of the Chiwaukum Basin, Central Washington, United States

- XL215 EGU2011-5167
Kevin Mickus, Ben Wiede, Mohamed Abdelsalam, and Steve Gao
Gravity Investigation of the Tendaho Graben, Afar, Ethiopia
- XL216 EGU2011-6156
Carlos Fernandez, Juan Diaz-Alvarado, Manuel Diaz-Azpiroz, Antonio Castro, and Iñaki Moreno-Ventas
SPO fabric ellipsoids in granodiorites of the Gredos Massif (Variscan Iberian Massif): A clue to understand the kinematics of granitoid emplacement
- XL217 EGU2011-1882
Kurultay Ozturk, Bedri Alpar, Cenk Yaltırak, and Denizhan Vardar
Vertical tectonic movements at the SW corner of the Sea of Marmara; new seismic chirp reflection data from Erdek Bay (Turkey)
- XL218 EGU2011-6152
Lin Chen, Gerya Taras, Zhongjie Zhang, and Guizhi Zhu
Formation mechanism of the eastern Tibetan margin: implication of numerical studies
- XL219 EGU2011-6231
Juan Diaz-Alvarado, Antonio Castro, Carlos Fernandez, Iñaki Moreno-Ventas, and Richard Armstrong
SHRIMP U-PB zircon geochronology of intrusive granitoids and anatectic leucogranites in the Gredos Massif, Central System batholith, Spain. Implications for the building of the batholith
- XL220 EGU2011-8992
Ana Hipólito, Fátima Viveiros, Rita Carmo, Catarina Silva, Nuno Cabral, Jeremias Cabral, Vera Alfama, Teresa Ferreira, and João Luís Gaspar
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