

EGU General Assembly 2011
Programme Group Programme
TS – Tectonics & Structural Geology

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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

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

Convener: 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 Guðmundur 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 EuroPlaNet/IDIS Team
 EuroPlaNet/IDIS, a scientific gateway for planetary sciences
- XY659 EGU2011-10914
Stefania De Zorzi, Robert Laurini, Gobe Hobona, Giovanni Rocca, Dolors Barrot, and Maria Pla
 Definition of a common INSPIRE-driven elevation model and its

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

Convener: Antonio Villase  or | 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 Jim  nez, Antonio Garc  a-Jerez, and **Francisco Luz  n**
 Analysis of surface wave dispersion in Navarra (Northern Spain) from cross-correlation of ambient noise
- XY756 EGU2011-11993
 Antonio Garc  a-Jerez, **Francisco Luz  n**, and Abigail Jim  nez
 Inferring the Elastic properties of the Low Andarax River Valley (SE Spain) by Means of Array Analysis of Ambient Noise
- XY757 EGU2011-5853
Antonio Villasenor, 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

TS2.2/EMRP13 – Long and short term fault zone weakening processes (co-organized) – Orals

Convener: Nicola De Paola | Co-Conveners: Cristiano Collettini, Tom Mitchell, Giulio Di Toro

Room: 28

Chairperson: Nicola De Paola, Thomas Mitchell

- 15:30–15:45 EGU2011-9901
John Suppe and En-Chao Yeh
 Limits to large-scale fault strength: going directly from geometry to strength using wedge mechanics
- 15:45–16:00 EGU2011-4125
Giulio Di Toro, Raehee Han, Takehiro Hirose, Nicola De Paola, Stefan Nielsen, Kazuo Mizoguchi, Fabio Ferri, Massimo Cocco, and Toshihiko Shimamoto
 Fault lubrication during earthquakes
- 16:00–16:15 EGU2011-2797
Yehuda Ben-Zion and Ilya Zaliapin
 Observational tests of dynamic bimaterial effects on natural faults with along-strike symmetry properties of aftershocks
- 16:15–16:30 EGU2011-12122
John D. Platt, James R. Rice, and John W. Rudnicki
 Strain localization within a fluid saturated fault gouge layer during seismic shear
- 16:30–16:45 EGU2011-5906
Philip Meredith, Michael Heap, Patrick Baud, Sergio Vinciguerra, Andrew Bell, and Ian Main
 Brittle creep in rocks: from laboratory to crustal time scales.
- 16:45–17:00 EGU2011-12634
Jean-Philippe Avouac, Sylvain Barbot, Nadaya Cubas, and Nadia Lapusta
 Spatial variations of fault friction: observations and implication for fault dynamics

TS2.2/EMRP13 – Long and short term fault zone weakening processes (co-organized) – Posters

Convener: Nicola De Paola | Co-Conveners: Cristiano Collettini, Tom Mitchell, Giulio Di Toro

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Giulio Di Toro, Cristiano Collettini

- XL300 EGU2011-711
Amy Clare Ellis, Ernest Rutter, Katharine Brodie, and Julian Mecklenburgh
 Influence of Hydrothermally Generated Talc Upon Fault Behaviour

- XL301 EGU2011-7128
Nicolas Brantut, **Jean Sulem**, and Alexandre Schubnel
Effect of dehydration reactions on the stability of creeping faults
- XL302 EGU2011-7402
Cecilia Viti and Cristiano Collettini
Fault rocks evolution and deformation processes along carbonate-bearing thrust faults
- XL303 EGU2011-7676
Giovanni Chiodini, **Carlo Cardellini**, Stefano Caliro, Francesco Frondini, Salvatore Inguaggiato, and Fausto Matteucci
Geochemical evidences for and characterization of CO₂ rich gas sources in the epicentral area of the Abruzzo 2009 earthquakes.
- XL304 EGU2011-8261
Nicola De Paola, Giovanni Chiodini, Takehiro Hirose, Carlo Cardellini, Stefano Caliro, and Toshihiko Shimamoto
The geochemical signature of carbonate-hosted seismogenic faults
- XL305 EGU2011-8335
Nicola De Paola and Jeroen van Hunen
The Fluid Flow Evolution During the Seismic Cycle Within Overpressured Fault Zones
- XL306 EGU2011-9049
W. Ashley Griffith, **Tom M. Mitchell**, and Giulio Di Toro
In situ coseismic stiffness of fault rocks calculated using pseudotachylite injection veins
- XL307 EGU2011-9996
Brice Lacroix, Henri Leclère, François Souquière, Martine Buatier, and Pierre Labaume
Weakening processes in thrust faults: example of the Monte Perdido thrust fault (South Pyrenean orogenic prism, Spain).
- XL308 EGU2011-10483
Steven Smith, Andrea Billi, Giulio Di Toro, Andre Niemeijer, and Elena Spagnuolo
Fossil Earthquakes in Limestone? Natural Clast-Cortex Grains and Constraints from Low- to High-Velocity Friction Experiments
- XL309 EGU2011-11523
Cristiano Collettini, Brett Carpenter, Marco M Scuderi, and Chris Marone
Heterogeneous frictional properties of natural carbonate-bearing normal faults
- XL310 EGU2011-12070
Marc Andre Strutz, Tom Mitchell, and Jörg Renner
Experimental Measurements of Fault Wear and Permeability Evolution along Faults during Progressive Slip
- XL311 EGU2011-12639
Nadaya Cubas, Jean-Philippe Avouac, Yves Leroy, and Pauline Souloumiac
Evidence for locally lower friction within the high slip area of the 2010 Maule earthquake: dynamic weakening as an explanation of low apparent fault friction.
- XL312 EGU2011-12748
Elena Spagnuolo, Steven Smith, André Niemeijer, Stefan Nielsen, and Giulio Di Toro
Sliding behavior of calcite and dolomite marbles at seismic deformation conditions

TS2.3/EMRP14 – Fracturing, sealing and fluid flow in reservoirs and fault zones (co-organized) – Orals

Convener: Daniel Koehn | Co-Conveners: Aisling Soden, Laurent Geoffroy, Thomas Wagner, Einat Aharonov, Klaus Gessner, Francois Renard, Heather Moir, Heijn van Gent, Gianreto Manatschal, Ullrich Glasmacher

Room: 28

Chairperson: Daniel Koehn

- 08:30–08:45 EGU2011-7773
Yves Gueguen, Jérôme Fortin, and Audrey Ougier-Simonin
Permeability of cracked rocks
- 08:45–09:00 EGU2011-6654
Stephen Miller and Boris Galvan
Modeling the dynamical interaction between fracture development, stress transfer, fluid flow, and chemical precipitation
- 09:00–09:15 EGU2011-5672
Filiz Af?ar, Sonja Leonie Philipp, and Hildegard Westphal
Fracture propagation and reservoir permeability in limestone-marl alternations of the Jurassic Blue Lias Formation (Bristol Channel Basin, UK)- a multidisciplinary approach
- 09:15–09:30 EGU2011-2417
Heather Moir, Rebecca Lunn, and Zoe Shipton
Modelling Fault Damage Zone Evolution: Effect of heterogeneity.

- 09:30–09:45 EGU2011-889
Nicolas Beaudoin, Nicolas Bellahsen, Laurent Emmanuel, and Olivier Lacombe
 Paleofluid flow and basement-cored folding: Combined geochemical and microstructural studies at Sheep Mountain Anticline (Wyoming, USA)
- 09:45–10:00 EGU2011-3603
Janos L. Urai, Werner Kraus, Steffen Abe, Max Arndt, Simon Virgo, Marc Holland, Rainer Telle, and Thorsten Tonnesen
 How good is the glue? An experimental and numerical investigation of the mechanics of crack seal processes in vein networks.

COFFEE BREAK

Chairperson: Thomas Wagner

- 10:30–10:45 EGU2011-12970
Renaud Toussaint, Marcus Ebner, Daniel Koehn, Einat Aharonov, Maor Kaduri, Alexandra Rolland, Michael Heap, Philip Meredith, Jean Schmittbuhl, and Patrick Baud
 Stylolites in carbonate rocks: morphologies and their effect on rock permeability.
- 10:45–11:00 EGU2011-4236
Leehee Laronne Ben-Itzhak, Amir Sagy, and Einat Aharonov
 Large scale field measurements of stylolites: stylolite lateral extent and roughness
- 11:00–11:15 EGU2011-4558
Einat Aharonov, Renaud Toussaint, and Leehee Laronne Ben-Itzhak
 Upper bound on stylolite roughness as indicator for the duration and amount of dissolution
- 11:15–11:30 EGU2011-13519
 Michael Kettermann, Sohrab Noorsalehi-Garakani, **Heijn van Gent**, Steffen Abe, and Janos Urai
 Modeling of dilatant fractures in homogenous, cohesive material and in the presence of preexisting fractures
- 11:30–11:45 EGU2011-10102
Olivier Lengliné, Jean Schmittbuhl, Jean Elkhoury, Jean-Paul Ampuero, Renaud Toussaint, and Knut Jorgen Maloy
 Up-scaling of the fracture energy in heterogeneous media during brittle creep experiments
- 11:45–12:00 EGU2011-8637
Andrea Rustichelli, Emanuele Tondi, Fabrizio Agosta, Chiara Invernizzi, and Maurizio Giorgioni
 Depositional and diagenetic factors affecting the development of bed-parallel structures in Oligo-Miocene ramp carbonates (Maiella Mountain, central Italy)

LUNCH BREAK

Chairperson: Heijn van Gent

- 13:30–13:45 EGU2011-3615
francois cornet
 Forced Fluid flow in extensional domains
- 13:45–14:00 EGU2011-7995
Suzanne Picazo, Gianreto Manatschal, and Mathilde Cannat
 Exhumed mantle along an Ocean Continent Transition : the exemple of the Totalp ophiolite in SE Switzerland.
- 14:00–14:15 EGU2011-1813
Fabrizio Balsamo, Hilario Bezerra, Fabrizio Storti, and Marcela Veira
 Influence of faulting on iron oxide concretion and Liesegang band patterns in poorly lithified sandstones of the Barreiras formation, NE Brazil: inferences for fluid flow in clastic reservoirs
- 14:15–14:30 EGU2011-3655
Max Arndt, Simon Virgo, Zoé Sobisch, Marc Holland, and Janos L. Urai
 Field observations and interpretation of remote sensing data from an exhumed high pressure carbonate reservoir, Jebel Shams, Oman Mountains
- 14:30–14:45 EGU2011-11729
Aisling Soden and Zoe Shipton
 Subsurface fault zone architecture controlled by host rock heterogeneity
- 14:45–15:00 EGU2011-8572
Enrique Gomez-Rivas, Paul D. Bons, Philipp Blum, Daniel Koehn, and Thomas Wagner
 Numerical simulation of dynamic crustal-scale fluid flow

TS2.3/EMRP14 – Fracturing, sealing and fluid flow in reservoirs and fault zones (co-organized) – Posters

Convener: Daniel Koehn | Co-Conveners: Aisling Soden, Laurent Geoffroy, Thomas Wagner, Einat Aharonov, Klaus Gessner, Francois Renard, Heather Moir, Heijn van Gent, Gianreto Manatschal, Ullrich Glasmacher

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Daniel Koehn

- XL313 EGU2011-1285
Inna Balanyuk, Anatoly Dmitrievsky, Sergey Shapovalov, Olga Chaikina, and Tatiana Akivis
Role of Fluids in Spreading Zones of Sakhalin Island and Formation of Hydrocarbons
- XL314 EGU2011-4273
Zoltán Komoróczy, Heijn van Gent, and Janos L. Urai
Distribution of sub-seismic deformation near faults - Implications for Tight Gas production
- XL315 EGU2011-1286
Inna Balanyuk, Anatoly Dmitrievsky, Sergey Shapovalov, Olga Chaikina, and Tatiana Akivis2
Fluid Dynamics Model of the Formation of Giant Gas and Gas Condensate Deposits
- XL316 EGU2011-1915
Lespinasse Marc, Petrov Vladislav, Cuney Michel, and Shukin Serguei
Microfissuring, host rock heterogeneities and SNF storage potential at the Krasnokamensk area, NE Transbaikalia
- XL317 EGU2011-3573
Simon Virgo, Max Arndt, Paul Stenhouse, Stephen F. Cox, Christoph Hilgers, and Janos L. Urai
Evolution of a crack-seal calcite vein network in limestone : a high resolution structural, microstructural and geochemical study from the Jebel Akhdar high pressure cell, Oman Mountains
- XL318 EGU2011-3612
Ben Laurich, Max Arndt, Simon Virgo, Alexander Raith, Patrick Wüstefeld, Sebastian Thronberens, and Janos L. Urai
Insights in dynamics of high-pressure cells based on high-resolution outcrop panoramas: A geometry database for calcite vein networks in the Oman Mountains.
- XL319 EGU2011-3617
Christine Souque, Rob J. Knipe, Philip Jones, and John Lorenz
Fracture corridors and fault interaction in a context of polyphase deformation - Example from the Chalks of the Isle of Thanet Anticline, Kent, England
- XL320 EGU2011-4663
Masakazu Niwa, Hideki Kurosawa, and Tsuneari Ishimaru
Spatial distribution and characteristics of fracture zones in heterogeneous lithologies and long-term, multiple, fault re-activations
- XL321 EGU2011-5083
Caroline Mehl and Isabelle Cojan
Geometrical 3D characterisation of sand injections in a fracture network and onset dynamics, Bevens South East France
- XL322 EGU2011-5626
Jens-Oliver Schwarz and Frieder Enzmann
Impact of fracture geometry on fluid flow
- XL323 EGU2011-5699
Jens-Oliver Schwarz and Daniel Koehn
Geometry of and fluid flow in bedding parallel crack-seal veins
- XL324 EGU2011-5813
Achille Marsala and Thomas Wagner
Fluid chemistry of metamorphic quartz vein systems, Rhenish Massif (Germany)
- XL325 EGU2011-6207
Conny Zeeb, Paul D. Bons, Enrique Gomez-Rivas, Lena Stark, David Grabowski, and Philipp Blum
Uncertainty analysis for the characterisation of the discontinuity networks
- XL326 EGU2011-6473
Daniel Koehn, Jens-Oliver Schwarz, and Renaud Toussaint
Compaction history, burial depth and tectonics derived from stylolites in the Oman mountains
- XL327 EGU2011-6820
Irfan Ghani and Daniel Koehn
Hydrofracture Formation
- XL328 EGU2011-7030
Herbert Wallner and Harro Schmeling
Progress in Melt Induced Weakening Concept Driving Rift Induced Delamination

- XL329 EGU2011-7241
Aurore Franco, Catherine Dorbath, Laurent Geoffroy, Kristjan Agustsson, Cecile Doubre, and Olafur Flovenz
 Local earthquake tomography of a geothermal area in Reykjanes Peninsula (Iceland): Influence of nature, location and migration of crustal fluids on the seismicity.
- XL330 EGU2011-7930
Zvi Karcz, Ovunc Mutlu, Rich Albert, and Jim DeGraff
 The Formation and Propagation of Stylo-Fractures
- XL331 EGU2011-8406
Yves Missenard, Muriel Rocher, Lisa Casteleyn, Philippe Robion, Alexis Grare, Audrey Bertrand, Pierre Vergely, Antonio Benedicto, Marc Edward Cushing, and Isabelle Techer
 Sealing capacity of clays in multilayer systems: a field study of fracture-fluid flow relationships (Blue Clay formation, Maltese Islands)
- XL332 EGU2011-8926
Jean-Marc Daniel, Mickael Barbier, Khalid Amrouch, Jean-Paul Callot, Youri Hamon, and Olivier Lacombe
 Impact of fracturing stratigraphy on paleo-hydrodynamics, the Madison Formation case study (Bighorn Basin, Wyoming, USA).
- XL333 EGU2011-10095
Christoph Tuitz, Ulrike Exner, Bernhard Grasemann, and Alexander Preh
 Fault related cracking of pebbles in unconsolidated sediments (SE Vienna Basin, Austria)
- XL334 EGU2011-10208
Vincent Roche, Catherine Homberg, and Muriel Rocher
 Control of sub-horizontal faults on normal fault growth and architecture
- XL335 EGU2011-11977
Cynthia Garibaldi and Laurent Geoffroy
 Fluid circulation within a volcanotectonic system inferred from numerical hydrothermal modelling: application to the Ghoubbet-Asal Rift (Djibouti, East Africa).
- XL336 EGU2011-12193
Kumar Ankit, Denis Pilipenko, Julia Kundin, and Heike Emmerich
 Modelling Mineral Vein Dynamics - A Phase Field Approach
- XL337 EGU2011-12429
Resi Veeningen, Bernhard Grasemann, Kurt Decker, A. Hugh N. Rice, and Ralf Bischoff
 Fracture formation in a crystalline basement hydrocarbon reservoir in Yemen

GM5.1/TS4.9 – Tectonic Geomorphology and Landscape Evolution (co-organized) – Orals

Convener: Todd A. Ehlers | Co-Conveners: Eric Kirby, Klaus Reicherter, Ronald Van Balen, Andrew Carter, Frederic Herman, Linda Kirstein, Jean-Daniel Champagnac

Room: 6

Chairperson: n.n.

- 08:30–08:45 EGU2011-8742
Rebecca Reverman, M. Giuditta Fellin, Sean D. Willett, Frederic Herman, and Matthew Fox
 Low-temperature thermochronological constraints on the Miocene exhumation of the Adamello Complex, Southern Alps, Italy
- 08:45–09:00 EGU2011-13115
Cornelia Spiegel, Frank Lisker, Nina Dörr, and Karsten Piepjohn
 Cenozoic denudation history of northern Ellesmere Island: Eureka tectonics or Eocene glaciation?
- 09:00–09:15 EGU2011-5874
David Lundbek Egholm
 Modelling the processes behind alpine glacial landscapes
- 09:15–09:30 EGU2011-10856
Thibaud Simon-labric, Peter van der Beek, Peter Reiners, Christian Teyssier, Gilles Brocard, and Donna Whitney
 Glacial disruption of Cenozoic steady-state denudation in the North Cascades range
- 09:30–09:45 EGU2011-1447
Vincent Godard, Douglas Burbank, Didier Bourlès, Bodo Bookhagen, Régis Braucher, and Burch Fisher
 Constraining catchment-scale glacial erosion using a global inversion of detrital CRN data in the Himalayas of Central Nepal
- 09:45–10:00 EGU2011-14117
Mark T. Brandon, Frederic Herman, and Gerard Roe
 Rock-Strength and Characteristic Length-Scales for Orogenic Relief

COFFEE BREAK

Chairperson: n.n.

- 10:30–10:45 EGU2011-5926
Andreas Mulch, Hari Mix, Manfred Strecker, and C. Page Chamberlain
 Topographic thresholds to atmospheric circulation patterns
- 10:45–11:00 EGU2011-4401
Bodo Bookhagen and Manfred Strecker
 Climatic forcing of erosion rates in space and time - examples from the central Andes and Himalaya
- 11:00–11:15 EGU2011-13536
Emma Finch, Simon Brocklehurst, and Robert Gawthorpe
 The interaction between antecedent drainage networks and normal fault propagation
- 11:15–11:30 EGU2011-12567
Julien Babault, Jean van den Driessche, and Antonio Teixell
 Retro- to pro-side migration of the main drainage divide in the Pyrenees: geologic and geomorphological evidence
- 11:30–11:45 EGU2011-8383
Alvar Pastor, Julien Babault, Antonio Teixell, and Maria Luisa Arboleya
 Systematic stream piracy controlling the evolution of transverse rivers in the Ouarzazate foreland basin (Morocco)
- 11:45–12:00 EGU2011-10785
Sean Willett
 Water Divide Migration as a Bifurcating Dynamic System

LUNCH BREAK

Chairperson: n.n.

- 13:30–13:45 EGU2011-7022
Nicolas Puchol, Julien Charreau, Pierre-Henri Blard, Jean-Philippe Avouac, Elisabeth Lallier-Vergès, Didier Bourlès, Régis Braucher, Audrey Gallaud, Robert Finkel, and Marc Jolivet
 A 9 Myr record of erosion rates in Northern Tianshan based on ¹⁰Be cosmogenic nuclides
- 13:45–14:00 EGU2011-2500
Dirk Scherler, Bodo Bookhagen, and Manfred Strecker
 Cosmogenic nuclide-derived basin-wide erosion and palaeo-erosion rates from the Ganges headwaters, Indian Himalaya
- 14:00–14:15 EGU2011-4113
Taylor Schildgen, Domenico Cosentino, Bodo Bookhagen, Frank Dudas, Helmut Echtler, Samuel Niedermann, Giuditta Radeff, Manfred Strecker, Cengiz Yildirim, Natalia Hudáková and the VAMP Team
 Changing rates and patterns of surface uplift at the southern margin of the Central Anatolian plateau (Turkey): New data from marine stratigraphy and cosmogenic nuclide dating of river terraces
- 14:15–14:30 EGU2011-9861
Marion Campani, Andreas Mulch, Neil Mancktelow, Oliver Kempf, and Fritz Schlunegger
 Miocene paleoaltimetry of the Central Alps
- 14:30–14:45 EGU2011-7678
Christoph Glotzbach, Matthias Berner, and Peter van der Beek
 Detrital thermochronology records changing source areas and steady exhumation in the Western European Alps
- 14:45–15:00 EGU2011-10708
Nicolas Legrain, Kurt Stüwe, Jean L. Dixon, Friedhelm von Blanckenburg, and Peter Kubik
 Large scale, small amplitude, post-Miocene surface uplift in the non-glaciated Eastern Alps: river profiles analysis and cosmogenic-derived ¹⁰Be denudation rates

Chairperson: n.n.

- 15:30–15:45 EGU2011-2182
Carole Petit and Frédéric Mouthereau
 The Têt fault escarpment in Eastern Pyrenees : how anisotropic diffusive transport may preserve steep slopes imitating active fault scarps.
- 15:45–16:00 EGU2011-11654
Heiko Pingel, Strecker Manfred R., Hilley George E., Alonso Ricardo N., and Schmitt Axel K.
 Intermontane Basin and Landscape Evolution in the Eastern Cordillera of NW Argentina - S Humahuaca Basin (23-24° S)

- 16:00–16:15 EGU2011-1506
Richard Walker
 Comparison of geodetic, late Quaternary, and geological rates of slip in regions of distributed active faulting: a case study from eastern Iran
- 16:15–16:30 EGU2011-3477
Alex Whittaker and Sarah Boulton
 How fast do landscapes respond to active faulting?
- 16:30–16:45 EGU2011-4314
Jeni McDermott, Kelin Whipple, Kip Hodges, and Matthijs van Soest
 Quaternary N-S extension near the Himalayan crest: An investigation using river profiles and low-temperature thermochronology
- 16:45–17:00 EGU2011-1726
Negar Haghipour, Florian Kober, Susan Ivy-Ochs, Jean-Pierre Burg, Gerold Zeilinger, Peter Kubik, and Mohammad Faridi
 Incision and deformation of Quaternary fluvial terraces on the exposed Makran Accretionary Wedge in SE Iran

GM5.1/TS4.9 – Tectonic Geomorphology and Landscape Evolution (co-organized) – Posters

Convener: Todd A. Ehlers | Co-Conveners: Eric Kirby, Klaus Reicherter, Ronald Van Balen, Andrew Carter, Frederic Herman, Linda Kirstein, Jean-Daniel Champagnac

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- A113 EGU2011-12795
Frédéric Herman, Benny Guralnik, Frank Preusser, Sally Lowick, and Edward Rhodes
 Towards OSL-thermochronology, a new thermochronometer of very low closure temperature
- A114 EGU2011-5770
Jean-Daniel Champagnac, Pietro Sternai, Frédéric Herman, Benny Guralnik, and Flavien Beaud
 Fracture density as a controlling factor of postglacial fluvial incision rate, Granite Range, Alaska.
- A115 EGU2011-4862
Andrew Carter
 Some potential pitfalls when detrital radiogenic data are used to constrain the evolution of orogenic belts
- A116 EGU2011-10884
Thibaud Simon-Labric, Peter van der Beek, Gilles Brocard, Christian Teyssier, and Pete Reiners
 Extracting erosional denudation rates from low-temperature thermochronology in hot magmatic arcs.
- A117 EGU2011-3604
Yuki Matsushi, Masahiro Chigira, Ching-Ying Tsou, Narumi Hiraishi, and Hiroyuki Matsuzaki
 Dating abandoned channels in uplifting mountainous terrains: an approach to reconstruct watershed evolution on the absolute time scale
- A118 EGU2011-3345
Alain Demoulin
 Basin and river profile morphometry: a new index with a high potential for (at least) relative dating of tectonic uplift
- A119 EGU2011-11997
Angela Landgraf, Olaf Zielke, J. Ramon Arrowsmith, Paolo Ballato, Manfred R. Strecker, Anke M. Friedrich, and Saeid H. Tabatabaei
 Comparing fault-interaction modeling and topographic metrics to better understand the tectonic evolution with an example from the south-central Alborz mountains, Iran
- A120 EGU2011-6254
Louis Andreani and Richard Gloaguen
 Analysis of distributed deformation in Central America using remote sensing analysis of geomorphic features
- A121 EGU2011-7149
Leomaris Dominguez, Klaus Stanek, and Richard Gloaguen
 Active deformation structures using geomorphic indices from remote sensing in southern Hispaniola
- A122 EGU2011-13543
Emma Finch, Simon Brocklehurst, and Robert Gawthorpe
 The influence of fault segmentation on drainage network re-organisation and basin stratigraphy
- A123 EGU2011-7993
Miguel Castillo, Paul Bishop, Derek Fabel, and John Jansen
 Estimating incision rates in small bedrock channels using in situ cosmogenic ¹⁰Be: Assessing channel adjustment to landscape transience driven by base-level fall

- A124 EGU2011-12087
Alberto Resentini, Marco G. Malusà, Giovanni Vezzoli, Sergio Andò, and Eduardo Garzanti
Assessing sediment budgets and short-term erosion rates: petrography, heavy minerals, geochemistry, geochronology and density of modern Dora Baltea sands
- A125 EGU2011-10335
Baptiste Mary, Bertrand Maillot, and Yves Leroy
Thrusting sequences by the maximum strength theorem coupled to erosion laws
- A126 EGU2011-2441
Ronald Van Balen, Andrea Forzoni, and Cees Biermann
Faulting and tectonic geomorphology of the Jumilla area
- A127 EGU2011-8358
Guillaume Favre-Bulle, **Eric Bardou**, and Jean-Daniel Rouiller
Use of seismic tomography applied to periglacial areas : example of one site in Valais (Switzerland)
- A128 EGU2011-11120
David Milodowski, Arnaud Burtin, Niels Hovius, Yue-Gau Chen, Yih-Min Wu, Ching-Wee Lin, and Hongey Chen
Seismic monitoring of landslides and debris flows in the Chenyoulan River catchment, Taiwan
- A129 EGU2011-964
Lénárd Pál, Judit Gál, Gábor Kovács, András Zámolyi, and Balázs Székely
Tectonic geomorphologic investigation of a transition zone in the Pannonian Basin
- A130 EGU2011-3750
Enrico Miccadei and Tommaso Piacentini
Tectonic geomorphology and landscape evolution processes of the eastern central Apennines chain (Italy).
- A131 EGU2011-10887
Thomas Wiatr, Klaus Reicherter, Tomas Fernandez-Steeger, and Ioannis Papanikolaou
Morphotectonics on bedrock scarps on the Island of Crete, Greece
- A132 EGU2011-13655
Ali Faghih
Assessment of geomorphic response and landform evolution due to active tectonics in the Zagros Fold and Thrust Belt, Iran
- A133 EGU2011-1348
Annegret Burtcher, Marcel Frehner, and Bernhard Grasemann
Tectonic geomorphological investigations of antiforms using differential geometry (Permian Anticline, Northern Iraq)
- A134 EGU2011-4001
Flavio Giaconia, Guillermo Booth-Rea, José-Miguel Martínez-Martínez, José-Miguel Azañón, and Vicente Pérez-Peña
Geomorphic response to Carboneras fault activity in Sierra Cabrera (SE Betics, Spain)
- A135 EGU2011-4991
Taylan Sançar, Cengiz Zabc?, and H. Serdar Akyüz
Morphometric Analysis of Secondary Faults Around Karlova Triple Junction
- A136 EGU2011-8290
Angela Oswald and Kurt Stüwe
Analysis of Channel Profiles as an Indicator for Uplift in Sinai, Egypt
- A137 EGU2011-2393
Ronald Van Balen and Cornelis Kasse
Testing the tectonic significance of sinuosity changes- The Maas river in the Roer Valley Rift System
- A138 EGU2011-1324
Euan Macaulay, Edward Sobel, Alexander Mikolaichuk, Barry Kohn, and Finlay Stuart
Unravelling the deformation and erosional history of the Kyrgyz Central Tien Shan
- A139 EGU2011-4003
Flavio Giaconia, Guillermo Booth-Rea, José-Miguel Martínez-Martínez, José-Miguel Azañón, and Vicente Pérez-Peña
Geomorphologic evidence of active tectonics in Sierra Alhamilla (eastern Betics, SE Spain)
- A140 EGU2011-4120
Georgios Maniatis, Andrea Hampel, and Heidi Turpeinen
Response of active faults within fault arrays in extensional tectonic settings to mass redistribution on Earth's surface due to erosion and sedimentation
- A141 EGU2011-11278
Nadine Seib, Jonas Kley, Thomas Voigt, and Martin Kober
Late Neogene landforms as indicators of neotectonic movements in the Katutau - Altynemel Range (Tien Shan, Kazakhstan)
- A142 EGU2011-5291
Kellen Gunderson, Frank Pazzaglia, David Anastasio, Kenneth Kodama, Kurt Frankel, Alessio Ponza, Claudio Berti, David Smith, Brian Tanen, and Molly O'Neill
Along-strike partitioning of shortening on thrust-related folds, Northern Apennine mountain front, Italy

- A143 EGU2011-9367
Sebastien Jourdan, Mathias Bernet, Pierre Tricart, Stéphane Guillot, Stéphane Schwartz, and Thierry Dumont
 New constraints on the Western Alpine wedge 30-20 My ago from multi-method provenance analysis of foreland basin deposits
- A144 EGU2011-10462
Marta Limoncelli, Marco G. Malusà, Andrew Carter, François Guillot, and Eduardo Garzanti
 Short term erosion patterns constrained by downstream changes of detrital zircon U-Pb ages (Po River Basin)
- A145 EGU2011-13567
Glenda M. Besana-Ostman, Susana Vilanova, Ana Falcao-Flor, Eliza Nemser, Helder Ferreira, Sandra Heleno, and Joao Fonseca
 Overview, New Insights and Future Challenges on the Lower Tagus Valley Fault Zone
- A146 EGU2011-12671
Tímea Téglás, Gabriella Józsa, Balázs Székely, Gábor Molnár, and János Mészáros
 Implications on small-scale incision and deposition in a deeply incised gorge of the Visegrád Hills (Hungary) from repeated levelling
- A147 EGU2011-2159
Mikhail L. Kopp
 Plan configuration of denudation escarps as an indicator of neotectonic stresses for the platform plains
- A148 EGU2011-10755
Klaus Reicherter and Thomas Wiatr
 Are "postglacial" fault scarps really postglacial?
- A149 EGU2011-3657
Heidi Turpeinen, Georgios Maniatis, and Andrea Hampel
 The effect of erosion and sediment deposition on the slip evolution of normal faults after cessation of far-field extension
- A150 EGU2011-11927
Klaus Reicherter, Thomas Wiatr, Torsten Haberzettl, Silke Schmidt, Thomas Kasper, and Peter Frenzel
 Active tectonics in the northern Tangra Yum Co Basin (central Tibet)
- A151 EGU2011-10468
Nadine Hoffmann and Klaus Reicherter
 From Space to Ground: The seismogenic landscape of Lake Ohrid
- A152 EGU2011-5810
Jean-Daniel Champagnac, Peter Molnar, Christian Sue, and Frédéric Herman
 Tectonic, climate and topography of mountains ranges
- A153 EGU2011-10989
Pierre Valla, Peter van der Beek, David Egholm, and Frederic Herman
 Modelling alpine glacier dynamics over geological timescales: sensitivity of paleo-ice extent reconstructions to surface mass-balance
- A154 EGU2011-6637
Paul Bishop, Esperanza Muñoz-Salinas, and Christophe Schnabel
 Lithology and landscape transience in a post-orogenic setting with rock uplift driven by denudational isostatic rebound
- A155 EGU2011-6859
Vivi Kathrine Pedersen, David Lundbek Egholm, Jean Braun, Frédéric Herman, and Søren Bom Nielsen
 Predicting thermochronological data from a fluvio-glacial surface process model
- A156 EGU2011-4174
Robert Duller, Alex Whittaker, James Swinehart, John Armitage, and Philip Allen
 Identifying tectonic versus climatic controls on Late Cenozoic landscape development of the central Great Plains, Nebraska
- A157 EGU2011-3413
 Arnaud Beckers, Benoît Bovy, and **Alain Demoulin**
 Modelling the migration of a mid-Pleistocene erosion wave in the Ardennes (western Europe) drainage network: approach and first implications
- A158 EGU2011-13353
Corine Davids, Geoffrey D. Corner, and Steffen G. Bergh
 GIS analysis of elevated erosion surfaces in northern Norway
- A159 EGU2011-7286
Romain Darnault, Yann Rolland, Guillaume Sanchez, Stéphane Bouissou, Régis Braucher, and Didier Bourlès
 The interplay of glacier retreat, tectonic and landslides: Contribution of cosmonuclides (^{10}Be)
- A160 EGU2011-7640
Jochen Schmitt, Barbara Seth, and Hubertus Fischer
 How to derive global weathering rates from ice core measurements of atmospheric tetrafluoromethane?

- A161 EGU2011-384
Plamen Ganev, James Dolan, Sally McGill, and Kurt Frankel
Implications of Pleistocene-Holocene climate transitions for the slip rate of the Garlock fault, southern California, USA
- A162 EGU2011-3653
Enrico Miccadei and **Tommaso Piacentini**
Quaternary drainage evolution on the eastern piedmont of Central Apennines (Italy).
- A163 EGU2011-4606
Sarah Boulton, Martin Stokes, Anne Mather, Alaeddine Belfoul, and Farid Faik
Fluvial geomorphology of the Dades River, Morocco: Implications for fault activity along the Southern Atlas Fault
- A164 EGU2011-5892
Tim Dempster and Cristina Persano
The influence of inefficient erosion on orogen structure
- A165 EGU2011-5743
Domenico Cosentino, Taylor F. Schildgen, Antonio Caruso, Costanza Faranda, and Cengiz Yildirim
Quantifying post-Tortonian relief change at the southern margin of the Central Anatolian plateau (Turkey)
- A166 EGU2011-6276
Ryan McKeon, Peter Zeitler, and Frank Pazzaglia
Long-Term landscape evolution from apatite U-Th/He thermochronology in slowly eroding landscapes: Problems and potential from the southern Appalachians, U.S.A.
- A167 EGU2011-8618
Gloria Heilbronn, Laurie Barrier, Marc Jolivet, Sylvie Bourquin, Cécile Robin, Audrey Gallaud, Julien Charreau, Romain Augier, and Yan Chen
Characterisation of the evolution of a foreland basin active margin from sedimentary record and AFT analysis on detrital apatite: example of the NE Tian Shan foothills.
- A168 EGU2011-9624
Jing Liu, Li Wen, Mike Oskin, and Lingsen Zeng
Pattern of modern denudation in the Longmen Shan, eastern Tibetan plateau: Tectonic controls on focused erosion along plateau margin
- A169 EGU2011-11983
Simon Elfert, Wolfgang Reiter, and Cornelia Spiegel
Doming and unroofing of the Lepontine Dome (Central European Alps). New insights from Low-Temperature thermochronology
- A170 EGU2011-13459
Sanjeev Gupta, Rajiv Sinha, Ajit Singh, Andrew Carter, Philippa Mason, Andrew Murray, Jan-pieter Buylaert, Gs Yadav, Marion Ferrat, and Kristina Thomsen
Large-scale drainage shifts on the Indo-Gangetic plains: implications for reading mountain belt evolution from the sedimentary record
- A171 EGU2011-5287
J Bruce H Shyu, Yen-Sheng Lin, Ching-Hua Lo, Chuan-Chou Shen, and Gabriel González
A slow-slipping active fold and thrust system at the southeastern corner of the Atacama Basin, northern Chile
- A172 EGU2011-4014
Flavio Giaconia, Guillermo Booth-Rea, José-Miguel Martínez-Martínez, José-Miguel Azañón, Joaquín Pérez-Romero, and Irene Villegas
Mountain front migration in response to fault segment linkage and growth: the Polopos transpressive fault zone, southeastern Betics (SE Spain)
- A173 EGU2011-9818
Angelika Popotnig and Kurt Decker
The kinematic evolution and tectonic geomorphology of the active Lavanttal Fault System, Austria
- A174 EGU2011-2944
Audrey Decou, **Hilmar von Eynatten**, Jörn F. Wotzlaw, Mirian Mamani, Gerhard Wörner, Istvan Dunkl, and Dirk Frei
Timing of early Andean uplift based on provenance analysis of Cenozoic sediments from southern Peru, northern Chile and adjacent Bolivia
- A175 EGU2011-5385
Vicky Haider, István Dunkl, Hilmar von Eynatten, Dirk Frei, and Lin Ding
Geo- and thermochronology of Cretaceous intrusions forming peneplains in the Lhasa terrain, southern Tibetan Plateau
- A176 EGU2011-5930
Kouakou Fulgence Eric Yao, Christine Franke, Médard Thiry, Pawel Aleksandrowski, Adam Szuszkiewicz, and Krzysztof Turniak
Albitization as Record of the Triassic Paleosurface in the Sudetic Crystalline Massif (Poland)

- A177 EGU2011-10594
Angelika Popotnig, Dana Homolova, and Kurt Decker
 Quantitative geomorphologic data from the Hluboká Fault System, Budejovice Basin (southern Bohemian Massif)
- A178 EGU2011-2881
Hongbo Zheng, Juntao Jia, Mengying He, Ling Li, Xiaochun Wei, Yuliang Chen, and Ping Wang
 A Miocene Age Yangtze River: Evidence from Finger-printing Sediments
- A179 EGU2011-5459
Ufuk Tari, Okan Tuysuz, S. Can Genc, Nalan Lom, and Ozge Tekesin
 Evolution Of The Hatay Graben, Southern Turkey: Evidence From Morphology And Structural Data
- A180 EGU2011-12963
Paolo Ballato, Daniel Stockli, Angela Landgraf, Manfred Strecker, Anke Friedrich, Mohammad Ghassemi, and Saeid Tabatabaei
 Exhumation pattern revealed by zircon and apatite (U-Th)/He thermochronology across a transpressional duplex: an example from the central southern Alborz mountains (N Iran)

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 Geraldès
Gravity and magnetic anomalies on the Trindade Island and Vitoria-Trindade Chain: implications for the lithospheric thinning and tectonic evolution of the Brazilian Platform
- 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 Chaboureau, 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, François 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 Klingelhoefer
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 Seht
 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
Vinicius 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 Cochrane, 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
 Convener: Susanne Buiter | Co-Conveners: Francesca Funiciello, 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 Buiter
 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 peridot

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

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 UUSS 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 Zulfikar, 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 Merti
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

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

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 Tesauro, 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 Tkalčić, 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 Klingelhoefer, 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, Kayrlly 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 Matruolo, 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

Tuesday, 05 April

ML29 – Stephan Mueller Medal Lecture by Laurent Jolivet (co-listed) – Orals

Convener: Fabrizio Storti

Room: 28

Chairperson: Fabrizio Storti

17:30–18:30 EGU2011-14174

Laurent Jolivet

Backarc basins opening, contributions from slab retreat, mantle flow and intracontinental strike-slip shear zones (Stephan Mueller Medal Lecture)

GMPV22/TS1.5 – Geology of the North-Atlantic Craton (co-organized) – Orals

Convener: Nynke Keulen | Co-Conveners: Thomas F. Kokfelt, Jochen Kolb

Room: 31

Chairperson: Keulen, Kokfelt, Kolb

08:30–08:45 EGU2011-11428

Llewellyn Pilbeam

The composition of Kimberlite from the Majuagaa dyke southern West Greenland a quantitative textural and chemical study.

08:45–09:00 EGU2011-13670

Tomas Næraa, Minik Rosing, Anders Scherstén, Elis Hoffmann, Thomas F. Kokfelt, and Tony Kemp
Eo- to Mesoarchaeoan crust formation in the Nuuk region, southern West Greenland. Constrains from combined U/Pb, Hf and O isotopes in zircon

09:00–09:15 EGU2011-2183

Hugh Rollinson

LILE-depletion in the Archaean lower continental crust: the Lewisian granulites revisited

09:15–09:30 EGU2011-3170

Kristoffer Szilas, Vincent J. van Hinsberg, Alexander F.M. Kisters, Thomas F. Kokfelt, Anders Scherstén, and Brian F. Windley

Remnants of Mesoarchaeoan oceanic crust in the Tartoq Group, North Atlantic Craton, SW Greenland

09:30–09:45 EGU2011-10078

John C. Schumacher, Nynke Keulen, Charlotte Stamper, Gemma Sherwood, and Vincent van Hinsberg
Metamorphism in southern West Greenland and South-West Greenland

09:45–10:00 EGU2011-10042

Nicolas Benjamin Stoltz, **Annika Dziggel**, and Jochen Kolb

Formation of garnet coronas during high-P retrogression in mafic granulites of the Mesoarchaeoan Tasiarsuaq terrane, southern West Greenland.

GMPV22/TS1.5 – Geology of the North-Atlantic Craton (co-organized) – Posters

Convener: Nynke Keulen | Co-Conveners: Thomas F. Kokfelt, Jochen Kolb

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Kolb, Kokfelt, Keulen

XY435 EGU2011-10661

Martin B. Klausen, **Thomas F. Kokfelt**, Nynke Keulen, Alfons Berger, and John C. Schumacher
Tholeiitic 'komatiite'-basalt and calc-alkaline andesite-dacite succession in the Archaean Kvanefjord Area (South-West Greenland): A composite oceanic and volcanic arc suite?

XY436 EGU2011-13662

Thomas Kokfelt, Anders Scherstén, and Tomas Næraa

New geochronological evidence for a c. 3.1-3.2 Ga old cratonic core in the Fiskensæset area, South-West Greenland

XY437 EGU2011-14038

Thomas Kokfelt, Nynke Keulen, Tomas Næraa, Anders Scherstén, and Tjerk Heijboer

New zircon U/Pb age data from the Archaean craton, South-West and southern West Greenland (61°30'N - 64°00'N)

XY438 EGU2011-7335

Timothy Johnson

Evidence for partial melting in the central region of the Lewisian complex, Scotland

- XY439 EGU2011-7403
Alfons Berger, **Thomas F. Kokfelt**, and Martin B. Klausen
Geochemistry and petrology of border zones between mafic/ultramafic bodies and surrounding TTG gneisses (SW Greenland)
- XY440 EGU2011-10089
Martin Koppelberg, **Annika Dziggel**, Jochen Kolb, Denis Martin Schlatter, and Robert Flock
Alteration systematics and petrology of gold-bearing quartz veins on the island Qilanngaarsuit, southern West Greenland.
- XY441 EGU2011-8427
Jochen Kolb, Denis M. Schlatter, Annika Dziggel, and Alexander F.M. Kisters
Orogenic gold mineralisation in the Archean North Atlantic craton, southern West and South West Greenland
- XY442 EGU2011-7359
Denis Martin Schlatter, Jochen Kolb, and Sara Edith Hoffritz
Characterization of host rocks and hydrothermal alteration of the Nuuluk gold occurrences in the Sermiligaarsuk Fjord area, South West Greenland
- XY443 EGU2011-10026
Vincent van Hinsberg, Alex Kisters, and Kristoffer Szilas
Constraining the geotectonic setting for the Archean Tartoq Group (SW Greenland) from its metamorphic and structural history
- XY444 EGU2011-12125
Kristoffer Szilas, Adam A. Garde, Anders Scherstén, Jeroen A.M. van Gool, and Claus Østergaard
Mesoarchaeoan premetamorphic hydrothermal alteration of tholeiitic basalt resulting in aluminous lithologies, Storø supracrustal belt, Nuuk region, southern West Greenland
- XY445 EGU2011-11114
Kristoffer Szilas, Anders Scherstén, J. Elis Hoffmann, Thomas F. Kokfelt, Vincent J. van Hinsberg, Brian F. Windley, and Carsten Münker
Linking the Ravns Storø and Bjørnesund supracrustal belts (SW Greenland) using Lu-Hf and Sm-Nd isotopic data and whole-rock geochemistry
- XY446 EGU2011-8525
Nynke Keulen, John C. Schumacher, Vincent J. van Hinsberg, Kristoffer Szilas, Brian F. Windley, Thomas F. Kokfelt, Denis M. Schlatter, and Anders Scherstén
The Bjørnesund anorthosite-greenstone belt - a link between the Fiskensæset complex and the Ravns Storø metavolcanic belt, southern West Greenland
- XY447 EGU2011-8660
Nynke Keulen, Thomas F. Kokfelt, Alfons Berger, and John C. Schumacher
Archean tectonics in the Paamiut region, South-West Greenland
- XY448 EGU2011-14021
Bo M. Stensgaard, Jochen Kolb, Troels F.D. Nielsen, and Kristine Thrane
The Archean craton and Palaeoproterozoic mobile belt in South-East Greenland: an overview of our current understanding
- XY449 EGU2011-12336
Nynke Keulen, Thomas F. Kokfelt and the Homogenisation* Team
A 1:100 000 web-accessible geological map of southern West and South-West Greenland (61°30' - 64°N)
- XY450 EGU2011-13675
Emma F. Rehnström (compiler)
64 V.2 Syd. Kapisillit: A new geological 1:100 000 map sheet in the Nuuk area, SW Greenland

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

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 Gayrard
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

TS2.1 – Fault zone structure, mechanics and evolution in nature and laboratory – Orals

Convener: Fabrizio Agosta | Co-Conveners: Robert Holdsworth, Steven Smith, Renaud Toussaint

Room: 28

Chairperson: n.n.

- 08:30–08:45 EGU2011-1099
Martin Schöpfer, Conrad Childs, Tom Manzocchi, and John Walsh
Conceptual and mechanical models for evolution of the three-dimensional structure of fault zones

- 08:45–09:00 EGU2011-11049
Lionel Sonnette, Jacques Angelier, Thierry Villemin, and Françoise Bergerat
 Surface expression, spatial distribution and temporal propagation of the faulting and fissuring in the Thingvellir Fissure Swarm, Iceland
- 09:00–09:15 EGU2011-13110
Thomas Mitchell
 Damage Structure, Permeability and Seismic Properties of Fault Zones in the Seismic Cycle in Nature and the Laboratory
- 09:15–09:30 EGU2011-8860
Luisa Valoroso, Lauro Chiaraluce, Raffaele Di Stefano, Davide Piccinini, David P. Schaff, and Felix Waldhauser
 Can seismicity image the complexity of fault architecture? A radiography of the 2009 MW 6.1 L'Aquila normal fault system (Central Italy).
- 09:30–09:45 EGU2011-6142
Frantz Maerten and Roger Soliva
 Three dimensional failure envelopes for complex fault systems. A numerical investigation
- 09:45–10:00 EGU2011-5983
Cristiano Collettini, André Niemeijer, Steven A.F. Smith, Cecilia Viti, and Chris Marone
 Fault Structure, Frictional Properties and the Spectrum of Fault Slip Behaviour

COFFEE BREAK

Chairperson: n.n.

- 10:30–10:45 EGU2011-4956
Mai-Linh Doan, Andrea Billi, Virginie d'Hour, and Gérard Gary
 Dynamic damage of rocks : from single fracturing to pulverization
- 10:45–11:00 EGU2011-1293
Steffen Abe and Karen Mair
 DEM Modelling of Comminution Processes in Fault Gouge
- 11:00–11:15 EGU2011-5537
Sebastian Langer, Dion Weatherley, and Louise Olsen-Kettle
 Asymmetric normal and shear stresses along bimaterial interfaces
- 11:15–11:30 EGU2011-4155
Jean-Pierre Gratier
 The role of pressure solution in aseismic creep and the dynamic equilibrium between fracturing and sealing processes in active faults
- 11:30–11:45 EGU2011-1158
Sebastien Boutareaud, Takehiro Hirose, Mai-Linh Doan, Muriel Andreani, Dan-Gabriel Calugaru, Matej Pec, Anne-Marie Boullier, Karsten Kunze, and Benoit Cordonnier
 Talc lubrication of faults at seismic velocities: an experimental approach
- 11:45–12:00 EGU2011-13003
Lori Kennedy and Nathan Clevener
 The role of dolomite content on the mechanical strength in dolomite-limestone composites

TS2.1 – Fault zone structure, mechanics and evolution in nature and laboratory – Posters

Convener: Fabrizio Agosta | Co-Conveners: Robert Holdsworth, Steven Smith, Renaud Toussaint

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Agosta, Toussaint

- XL247 EGU2011-330
Rachael Ellen, Zoe Shipton, and Rebecca Lunn
 Predicting the Internal Structure of Fault Zones in Basalt and its Effect on Along Fault-Fluid Flow
- XL248 EGU2011-1335
David Tanner, Steffi Burchardt, and Charlotte M. Krawczyk
 Architecture of the damage zone of a fault from the Irish Variscides; distribution and growth of fractures
- XL249 EGU2011-4187
Fabrizio Agosta, Patricia Ruano, Andrea Rustichelli, Emanuele Tondi, Carlos Sanz de Galdeano, and Jesus Galindo-Zaldivar
 Permeability structure of a >40 m-throw normal fault crosscutting a carbonate multilayer (SE Granada Basin, Betic Cordilleras, Spain)

- XL250 EGU2011-6403
Dorothea Reyer, Johanna F. Bauer, and Sonja L. Philipp
Fault zone architecture and fracture systems in sedimentary rocks of the North German Basin
- XL251 EGU2011-1518
Sebastien Boutareaud and Santanu Misra
Mechanical behaviour and microstructure of talc sheared at high strain rates (10⁻⁴ and 10⁻³ s⁻¹) in torsion
- XL252 EGU2011-2199
Giulio Viola, Horst Zwingmann, Jussi Mattila, and Asko Käpyaho
Direct dating of Mesoproterozoic brittle fault reactivation by K-Ar gouge ages
- XL253 EGU2011-2413
Tamaz Chelidze, Teimuraz Matcharashvili, Natalia Zhukova, and Ekaterine Mepharidze
Transitions in dynamics of acoustic emission at stick-slip movement of rock samples at different stiffness of spring-block system
- XL254 EGU2011-2486
Sonja L. Philipp, Dorothea Reyer, and Johanna F. Bauer
Estimation of effective Young's moduli of sedimentary rocks in fault zones
- XL255 EGU2011-2897
Christian Brandes, David Tanner, Ulrich Polom, and Jutta Winsemann
Deformation bands in Pleistocene sediments related to basement tectonics
- XL256 EGU2011-4192
Giovanni Camanni, Dennis Brown, Joaquina Alvarez-Marron, Martin Schimmel, and Yih-Min Wu
Strain partitioning along the Shuilikeng transpressive Fault System (Central Taiwan fold-and-thrust belt)
- XL257 EGU2011-4270
Giacomo Prosser, Jörn Kruhl, Domenico Liotta, Tim Yilmaz, and Sabine Volland
Vein patterns and quartz crystallization in the Pfahl shear zone (Bavarian Forest, Germany): clues to understanding interaction of tectonics and fluid flow in a fossil hydrothermal system
- XL258 EGU2011-4875
Ernie Rutter, Raymond Burgess, and Daniel Faulkner
The structure and history of the Carboneras Fault Zone, S.E. Spain
- XL259 EGU2011-5003
Rochelle L. Taylor, Ernest H. Rutter, Kate Brodie, Daniel R. Faulkner, Stuart Nippres, Andreas Rietbrock, and Christian Haberland
Ground-truthing in-situ seismic data against geological data: the Carboneras Fault Zone, S.E. Spain
- XL260 EGU2011-7821
Stuart Nippres, Andreas Rietbrock, Daniel Faulkner, Ernest Rutter, Christian Haberland, and Teresa Teixido
The shallow velocity structure of the Carboneras fault zone from first arrival traveltimes tomography
- XL261 EGU2011-5425
Dion Weatherley and Yehuda Ben-Zion
Numerical Simulations of Conditions Leading to Dynamic Pulverization of Rocks
- XL262 EGU2011-5601
Gernot Michlmayr, Denis Cohen, and Dani Or
Acoustic Emissions Characteristics During Shearing of Granular Media
- XL263 EGU2011-5683
Giovanni Luca Cardello and Neil Mancktelow
Oblique normal faulting and veining in limestones at the brittle-ductile transition: examples from the Rawil Depression (SW Switzerland)
- XL264 EGU2011-7490
Erik Rybacki, Christoph Janssen, Richard Wirth, Kai Chen, Hans-Rudolf Wenk, and Georg Dresen
Microstructural analysis of deformed calcite veins of SAFOD core samples with implications for the San Andreas Fault rheology
- XL265 EGU2011-7660
Michele Fondriest, Steven Smith, Dario Zampieri, and Giulio Di Toro
Field and microstructural investigations of an exhumed fault zone in dolostones (Southern Alps, Italy)
- XL266 EGU2011-9591
Joseph Clancy White, Lori A. Kennedy, Jennifer C. Haywood, and Dan R. Faulkner
Grain-scale Response and Aggregate Deformation Processes in Experimentally Deformed Carbonate and Shale Gouges
- XL267 EGU2011-9896
Antonino Cilona, Emanuele Tondi, Fabrizio Agosta, Patrick Baud, and Sergio Vinciguerra
A first comparison of natural and artificial shear bands in porous carbonate grainstones
- XL268 EGU2011-10127
David Sagi, Nicola De Paola, Kenneth McCaffrey, Robert Holdsworth, and Richard Jones
3D Modeling of Fracture Density and Connectivity Within Faulted Chalk Reservoirs - A Case Study From Flamborough Head, UK

- XL269 EGU2011-10144
David Sagi, Nicola De Paola, Kenneth McCaffrey, and Robert Holdsworth
 Fracture Pattern Variations Across a Seismically Active Fault Zone - A Case Study from the Regional scale Gubbio Fault, Central Italy
- XL270 EGU2011-11205
Emilio Casciello, John Cosgrove, Massimo Cesarano, and Jaume Vergés
 Patterns of Illitization in a Large-Scale Fault Zone of the Southern Apennines: Inferences on Shear Zone Evolution
- XL271 EGU2011-11253
Fernando Calamita and Sara Satolli
 The S-C tectonites in the Northern Apennines (Italy) thrust shear zone: Implication for mode and timing of deformation
- XL272 EGU2011-11791
Edouard Le Garzic, Yves Géraud, and Marc Diraison
 Scaling and geometric properties of extensional fracture systems in the Proterozoic basement of Yemen
- XL273 EGU2011-12093
Steven Smith and the USEMS Team
 Fracture Network Characteristics and Velocity Structure of a Seismic Fault Zone
- XL274 EGU2011-12210
Andrea Bistacchi, W. Ashley Griffith, Steven A. F. Smith, Giulio Di Toro, Richard Jones, Stefan Nielsen, Silvia Mitterpergher, and Elena Spagnuolo
 Fault roughness evolution at seismogenic depths
- XL275 EGU2011-12558
 Emmanuel Lecomte, **Laetitia Le Pourhiet**, Olivier Lacombe, and Laurent Jolivet
 Gouge compaction as softening process? Clues from analytical solution and 2D mechanical modelling.
- XL276 EGU2011-13279
Renaud Toussaint, Michael J. Niebling, Jan Ludvig Vinningland, Jean Schmittbuhl, Berthilde-Maud Schelstraete, Øistein Johnsen, Anke Lindner, Eric Clement, Knut Jørgen Maløy, and Eirik G. Flekkøy
 Channel formation in gouges and grains due to seeping fluid: overpressurization and depressurization dynamics
- XL277 EGU2011-13443
Martin Rittner and Wolfgang Müller
 Dating Brittle Deformation with the U-Pb method
- XL278 EGU2011-14071
 Liran Goren, Einat Aharonov, David Sparks, and **Renaud Toussaint**
 Liquefaction of fluid-saturated granular material under shear

TS2.5 – Crustal Stresses, Fractures, and Fault Zones: the Legacy of Jacques Angelier – Orals

Convener: Agust Gudmundsson | Co-Conveners: Françoise Bergerat, Thierry Villemin

Room: 28

Chairperson: T. Villemin/A.Gudmundsson

- 13:30–13:45 EGU2011-3693
Olivier Lacombe
 From inversion of calcite twin data to paleo-differential stress magnitudes in the upper crust : state of the art and comparison with contemporary stress data
- 13:45–14:00 EGU2011-4725
Alexandre Chemenda, Si-Hung Nguyen, Jean-Pierre Petit, and Julien Ambre
 Running dilatancy banding as a mechanism of jointing: Experimental and numerical models
- 14:00–14:15 EGU2011-9839
Agust Gudmundsson and Nahid Mohajeri
 Rock-fracture populations: power laws, entropy, and strain energy
- 14:15–14:30 EGU2011-445
Romain Plateaux, Françoise Bergerat, Nicole Béthoux, Thierry Villemin, and Muriel Gerbault
 Implications of fluid overpressure and fracturing mechanisms in the rift zone of Eastern Iceland from earthquakes and fault slip data
- 14:30–14:45 EGU2011-4370
Chung-Pai Chang, Gui-Hua Chen, Xi-Wei Xu, and Ren-Mao Yuan
 Influence of the Xiaoyudong pre-existing salient in fault propagation of the Mw 7.9 Wenchuan earthquake, China
- 14:45–15:00 EGU2011-2741
Bezalel Haimson
 The evolution of the assumed state of stress on the Chelungpu Fault, Taiwan, post Chi-Chi earthquake, based on a set of hydraulic fracturing tests

Chairperson: A.Gudmundsson/F.Bergerat

- 15:30–15:45 EGU2011-7638
Catherine Homberg, Johann Schnyder, and Véronique Léonardi
 Geometry and displacement profiles along juvenile normal faults in fine-grained carbonates
- 15:45–16:00 EGU2011-4068
Anne Duperret, Sara Vandycke, Rory N. Mortimore, and Albert Genter
 How plate tectonics is recorded in Chalk deposits along the eastern English Channel in Normandy (France) and Sussex (UK)
- 16:00–16:15 EGU2011-6288
László Fodor
 Synthesis of Cretaceous-Cenozoic paleostress data from the Pannonian Basin: refinement from time constraints, tilt test and paleomagnetism
- 16:15–16:30 EGU2011-11298
Vladimir Sankov and Anna Parfeevets
 Cenozoic crustal state of stress of Mongolia
- 16:30–16:45 EGU2011-2475
Sonja L. Philipp, Dorothea Reyer, Filiz Afsar, Silke Meier, Johanna F. Bauer, and Steven Parchwitz
 Extension fractures and fault zone structure in layered carbonate rocks
- 16:45–17:00 EGU2011-10171
Vincent Roche, Catherine Homberg, and Muriel Rocher
 Faults displacement profiles in clay-limestone multilayer systems

TS2.5 – Crustal Stresses, Fractures, and Fault Zones: the Legacy of Jacques Angelier – Posters

Convener: Agust Gudmundsson | Co-Conveners: Françoise Bergerat, Thierry Villemin

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: F.Bergerat/T.Villemin

- XL279 EGU2011-5907
Jean-Pierre Petit, Alexandre Chemenda, Si-Hung Nguyen, Julien Ambre, and Cédric Jorand
 Joints initiation as dilatancy bands: Insights from experiments and field evidencing.
- XL280 EGU2011-5047
Fedor Yakovlev
 Different types of echeloned secondary fractures into a zone of shearing as indicator of strain state of this zone
- XL281 EGU2011-8185
Fedor Yakovlev
 Experience of faults typology in linear folding and statistic study of their system based on results of balancing sections for North-West Caucasus
- XL282 EGU2011-4421
Fedor Yakovlev
 Description of linear folding deformation on base of parameters of strain ellipsoid for the fold formation mechanisms detection: examples from different scale structures of Greater Caucasus
- XL283 EGU2011-2361
Satoshi Tonai, Katsushi Sato, and Juichiro Ashi
 Incremental fold test for paleostress analysis using the Hough transform inverse method
- XL284 EGU2011-2481
Sonja Philipp, Poh Yee Lim, Steven Parchwitz, and Dorothea Reyer
 Numerical models of extension fracture propagation in mechanically layered rocks
- XL285 EGU2011-5244
Hisao Ito
 Stress direction from S-anisotropy -Results from logging at site C0009 of IODP expedition 319, NanTroSEIZE
- XL286 EGU2011-4018
Damien Delvaux
 Win-Tensor, an interactive computer program for fracture analysis and crustal stress reconstruction
- XL287 EGU2011-7958
Julie Maury and François Cornet
 Comparison between three methods for determining principal stress directions from focal mechanisms inversions
- XL288 EGU2011-4157
Vaclav Vavrycuk
 Generic earthquakes
- XL289 EGU2011-6201
Sara Vandycke, Thierry Camelbeeck, Michel van Ruymbeke, Yves Quinif, Eric Kerchove, and Zhu Ping
 Is fault activity in the Rochefort cave (Belgium) related to the Glacial Isostatic Adjustment?

- XL290 EGU2011-5490
Ingrid Fjeldskaar Løtveit and Agust Gudmundsson
Effects of stress changes due to glacial erosion on reservoir excess pressure and fault-zone reactivation
- XL291 EGU2011-9921
Benoît Deffontaines and the Deffontaines Team
The South-West extrusion of Taiwan
- XL292 EGU2011-5450
Jyr-Ching Hu, Yuyia Wu, Chung-Pai Chang, and Chih-Heng Lu
Active deformation of coastal plain near the deformation front in SW Taiwan by persistent SAR interferometry
- XL293 EGU2011-5225
Chung-Hsiang Mu, Jian-Cheng Lee, Jia-Jyun Dong, and Jacques Angelier
Shallow structure and fault architecture of an active creeping thrust fault: the Chihshang fault at Chinyuan (Taiwan)
- XL294 EGU2011-6638
Hao-Tsu Chu, Jyr-Ching Hu, Françoise Bergerat, Jian-Cheng Lee, Jacques Angelier, and Shen-Hsiung Liang
Consistency of compression in Fault and Joint Patterns across a Mountain Belt in Taiwan
- XL295 EGU2011-3707
Elisabeth Nicot, Françoise Bergerat, Hao-Tsu Chu, Tzen-Fu Yui, and Jacques Angelier
Analysis of deformations and crystallizations in the serpentinite massif of Fengtien (Eastern Central Range, Taiwan).
- XL296 EGU2011-13981
Thierry Villemin and Françoise Bergerat
Fault and fissure development in the recent fissure swarm of Vogar (SW Iceland) revealed from detailed aerial mapping
- XL297 EGU2011-11084
Lionel Sonnette, Jacques Angelier, Françoise Sage, Christophe Larroque, Bertrand Delouis, and Jean-François Stéphan
Role of the structural inheritance in formation of the Nice subalpine chain, interpreted from paleostress inversion and structural observations
- XL298 EGU2011-2535
Payman Navabpour and Eric Barrier
Palaeostress review of the Zagros fold-and-thrust belt and tectonic implications
- XL299 EGU2011-5259
Tasca Santimano and Ulrich Riller
Relationship between plate convergence direction and kinematics of intercontinental deformation in the Central Andes inferred from fault-slip analyses
- XL300 EGU2011-10458
Mohamed Mansour Abdelmalak, Laurent Geoffroy, and Jacques Angelier
Stress field and plate break up over a thermal anomaly: the West Greenland and the Blosseville Kyst (East Greenland) case examples
- XL301 EGU2011-10445
Fuat Erkül and **Sibel Tatar Erkül**
Kinematic analysis of ductile shear zones and brittle faults in the Alacamdag region, northwestern Turkey - implications for extensional and compressional deformation in the Aegean extensional province
- XL302 EGU2011-10272
Vladimir Sankov, Valery Khaptanov, Yuriy Bashkuev, Mikhail Dembelov, and Anatoly Chipizubov
Holocene transpression structures along the borders of Tunka basin (Baikal rift system) evidenced by ground penetrating radar data
- XL303 EGU2011-8334
Marina Pastori, Davide Piccinini, Lucia Margheriti, Daniela Di Bucci, and Massimiliano R. Barchi
Crustal fracturing field as revealed by seismic anisotropy in three seismogenic areas of the Apenninic chain

GMPV23/TS3.2 – Nanoscale Processes in Geological Materials (co-sponsored by EMU) (co-organized) – Orals

Convener: Wilhelm Heinrich | Co-Conveners: Rainer Abart

Room: 31

Chairperson: Rainer Abart

- 10:30–10:45 EGU2011-6790
Katharina Marquardt (née Hartmann)
Bicrystals to study grain boundary diffusion: special vs. random grain boundaries
- 10:45–11:00 EGU2011-4143
Natalia Khisina and Richard Wirth
Oriented chromite-diopside symplectites in lunar olivine

- 11:00–11:15 EGU2011-6632
Friedrich Lucassen, Gerhard Franz, Rolf L. Romer, Richard Wirth, Matthias Weise, and Andreas Hertwig
 The rutile-titanite reaction: (I) 3D-View of a reaction front for a dissolution-precipitation reaction
- 11:15–11:30 EGU2011-3101
Bastian Joachim, Emmanuel Gardés, Rainer Abart, and Wilhelm Heinrich
 The effect of water on the internal organization of biminerale diopside-merwinite reaction rims
- 11:30–11:45 EGU2011-10728
Ralf Milke, Kornelia Kolzer, and Gregor Neusser
 The effect of small amounts of water on reaction kinetics between silicates in experiments (and rocks)
- 11:45–12:00 EGU2011-12380
 Henrik Hemmen, Lars Ramstad Alme, Jon Fossum, and **Yves Méheust**
 Diffusion of water in the mesoporosity of a dry clay: an experimental study using space and time resolved X-ray diffraction

GMPV23/TS3.2 – Nanoscale Processes in Geological Materials (co-sponsored by EMU) (co-organized) – Posters

Convener: Wilhelm Heinrich | Co-Conveners: Rainer Abart

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Wilhelm Heinrich

- XY451 EGU2011-569
Irina Sidorova, Sergey Ushakov, and Helena Sidorova
 Process of conductivity in rocks
- XY452 EGU2011-3912
Nicole Wawrzenitz, Alexander Krohe, and Rolf L. Rohmer
 Isotopic dating of deformation histories of metamorphic rocks: The impact of dissolution precipitation creep
- XY453 EGU2011-4500
Pritam Nasipuri, Holger Stunitz, Erling J Krogh Ravna, and Luca Menegon
 Orthopyroxene-amphibole bi-phase corona from the Arnøya metagabbro, Norway: an example of open system disequilibrium microstructure
- XY454 EGU2011-5978
Lucie Tajčmanová, Rainer Abart, Richard Wirth, and Dieter Rhede
 Intracrystal microtextures in alkali feldspars from fluid deficient felsic granulites: A chemical and TEM study
- XY455 EGU2011-6491
allen lin and Chien-Yen Chen
 Synthesis of hydroxyapatite nanoparticles by hydrothermal method
- XY456 EGU2011-6530
Pin-Yun Lin and Chien-Yen Chen
 Foam fractionation synthesis of anatase and its Photocatalytic and bactericidal activity
- XY457 EGU2011-6720
Friedrich Lucassen, Gerhard Franz, Rolf L. Romer, Richard Wirth, Matthias Weise, and Andreas Hertwig
 The rutile-titanite reaction: (II) Material transport along mineral interfaces and dissolution patterns on rutile
- XY458 EGU2011-6860
Håkon Storheim, Marcin Dabrowski, and Anders Malthe-Sørenssen
 Numerical modeling of coupled diffusion/advection-, reaction- and deformation- processes
- XY459 EGU2011-8257
Nicholas Norberg, Gregor Neusser, Daniel Harlov, and Rainer Abart
 Fine-scale dissolution-reprecipitation during deuteric coarsening of cryptoperthites to patch perthites - an experimental study
- XY460 EGU2011-12305
Gerlinde Habler, Martin Thöni, Michel Bestmann, Bernhard Grasemann, and Rainer Abart
 The behavior of ultra-fine grained mineral inclusions in meta-pegmatite garnet during host deformation
- XY461 EGU2011-12789
Rainer Abart, Elena Petrishcheva, and Bastian Joachim
 Thermodynamic model for microstructure evolution during reaction rim growth
- XY462 EGU2011-14033
 Gregor Neusser, **Rainer Abart**, Richard Wirth, and Nicholas Norberg
 Experimental exsolution of alkali feldspar

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

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

Room: 22

Chairperson: S. Krastel, J.K. Hillier

- 10:30–10:45 EGU2011-1706
Myriam Janin, Christophe Hemond, and Marcia Maia
 The Capricorn/Australian plates' suture highlighted by seamounts morphology
- 10:45–11:00 EGU2011-8329
Ian Watkinson, Robert Hall, and Farid Ferdian
 Structural evolution of the southern Molucca Sea, Indonesia: Insights from multibeam bathymetry
- 11:00–11:15 EGU2011-1831
Kan-Hsi Hsiung and Ho-Shing Yu
 Comparison of the sediment dispersal routes between offshore SW Taiwan and Huon Gulf west of Papua New Guinea in incipient oblique arc-continental collision zones
- 11:15–11:30 EGU2011-9926
Gueorgui Ratzov, Jean-Yves Collot, Sébastien Migeon, Boris Marcaillou, and Jean-Frédéric Lebrun
 Evidences for a sub-marine active fault along the North-Ecuador South Colombia oblique-convergent margin: implication for fault maturity and tectonic escape
- 11:30–11:45 EGU2011-9731
Domenico Ridente, Eleonora Martorelli, and Francesco L. Chiocci
 The problem of the 1908 Reggio and Messina earthquake and tsunami sources. A geomorphic perspective
- 11:45–12:00 EGU2011-491
Mustafa Ergin, Emel Bayhan, and Abidin Temel
 Variations in sedimentation rates in the eastern Marmara Sea (Turkey) as related to bottom morphology, active tectonism, sea-level changes and sediment input patterns

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

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

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: C.L. Jacobs, D. Vachtman

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

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 Knöpfler, 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. Huismans, 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 Oszczypko, 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 Sisnichalchi, 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 Villaseñor, 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

GM5.1/TS4.9 – Tectonic Geomorphology and Landscape Evolution (co-organized) – Orals

Convener: Todd A. Ehlers | Co-Conveners: Eric Kirby, Klaus Reicherter, Ronald Van Balen, Andrew Carter, Frederic Herman, Linda Kirstein, Jean-Daniel Champagnac

Room: 22

Chairperson: n.n.

- 08:30–08:45 EGU2011-3531
Matthew Fox, Sean D. Willett, and Frédéric Herman
 Space-time Inversion of Thermochronologic Data for Exhumation Rates within the Alps
- 08:45–09:00 EGU2011-8194
Roderick Brown, Romain Beucher, Kerry Gallagher, Cristina Persano, Finlay Stuart, and Paul Fitzgerald
 A new approach to deriving thermal history information from apatite (U-Th)/He analyses which exploits the natural dispersion of single crystal age determinations
- 09:00–09:15 EGU2011-8211
Jane Willenbring and Friedhelm von Blanckenburg
 Neogene erosion and accumulation rate increase: revisited
- 09:15–09:30 EGU2011-3406
Matthias Bernet
 Can we upscale short-term to long-term erosion rates?
- 09:30–09:45 EGU2011-5819
Eva Enkelmann
 Combining long- and short-term observations to understand the spatial and temporal evolution of mountain belts
- 09:45–10:00 EGU2011-10381
Marco Giovanni Malusà and Eduardo Garzanti
 Detrital geochronology, mineral fertility and short-term erosion patterns

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

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
 Serpentinite channel and the role of serpentinite 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 serpentine 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 Tympel 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: ^{10}Be 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

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

Posters

Convener: Susanne Buitert | Co-Conveners: Francesca Funicello, 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 Sergeyeva, 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, Hedirun 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 Hilaiet, Julien Gasc, Eva Héripré, 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
Arnauld Heuret, Debora Presti, Francesca Funiciello, Claudia Piromallo, and Serge Lallemant
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 plate
- 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.

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, Filippas 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 Komoroczi, 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

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?

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- Heggmoatn "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, Jaroslaw Majka, Alexander Larionov, and David Gee
Grenville-Sveconorwegian detrital zircon signatures in the High Arctic, from East Greenland to Severnaya Zemlya

Wednesday, 06 April

EMRP11/GMPV30/NH10.5/TS2.8 – Rock Physics and Natural Hazards (co-organized) – Orals

Convener: Sergio Vinciguerra | Co-Conveners: Philip Benson, Daniel Faulkner, Giulio Di Toro

Room: 42

Chairperson: S. Vinciguerra; P. Benson

- 10:30–10:45 EGU2011-1907
Patrick Baud, Wei Zhu, Sergio Vinciguerra, and Teng-fong Wong
 Brittle faulting and inelastic compaction in Alban Hills tuff: microstructural observations and micromechanical modeling
- 10:45–11:00 EGU2011-4812
Michael Heap, Andreas Laumann, Kai-Uwe Hess, Yan Lavallée, Patrick Baud, Philip Meredith, and Donald Dingwell
 Chemical, physical and mechanical properties of tuffs from Campi Flegrei (Italy)
- 11:00–11:15 EGU2011-6510
Sergio Vinciguerra, Silvio Mollo, Paola Tuccimei, Michael Heap, Michele Soligo, Mauro Castelluccio, Piergiorgio Scarlato, and Donald Dingwell
 Radon and thoron emission from high and low porosity rocks under increasing deformation: An experimental study
- 11:15–11:30 EGU2011-9526
William Hancock and Dion Weatherley
 On the influence of Particle Shape in fault gouge simulations using the Discrete Element Method
- 11:30–11:45 EGU2011-9638
Tadashi Takano, Ken-ichiro Maki, Eriko Soma, Katsumi Hattori, and Takashi Maeda
 Fundamentals of Microwave Detection in Association with Rock Fracture and Experimental Data for Various Rocks
- 11:45–12:00 EGU2011-13191
Thomas Mitchell, Michael Heap, Yan Lavallee, Takehiro Hirose, Donald Dingwell, Sergio Vinciguerra, Jörg Renner, and Andrea Cavallo
 Frictional Melt Generated from Similar & Dissimilar Volcanic and Sedimentary Rocks.

EMRP11/GMPV30/NH10.5/TS2.8 – Rock Physics and Natural Hazards (co-organized) – Posters

Convener: Sergio Vinciguerra | Co-Conveners: Philip Benson, Daniel Faulkner, Giulio Di Toro

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: D. Faulkner; G. Di Toro

- A32 EGU2011-4285
Philip Benson, Michael Heap, Yan Lavallee, Patrick Selvadurai, Asher Flaws, Kai Hess, Burkhard Schillinger, and Donald Dingwell
 Fracturing of volcanic edifices and dyking during magma ascent
- A33 EGU2011-4825
Linda Petrakova, Michael Heap, Yan Lavallée, Patrick Baud, and Donald Dingwell
 Investigating the stability of the volcanic edifice at Volcán de Colima, Mexico
- A34 EGU2011-6749
Andrew Bell, Ian Main, Michael Heap, Patrick Baud, and Philip Meredith
 Application of a mean-field model for brittle creep strain rates under finite loading conditions
- A35 EGU2011-7145
Pierre Gavrilenko and Chandrani Singh
 Modelling the hydromechanical response in the neighbourhood of Koyna reservoir (India): Results of the initial filling period
- A36 EGU2011-7203
Sergio Vinciguerra, Michael Heap, Silvio Mollo, Yan Lavallée, Kai Hess, Donald Dingwell, Gianluca Iezzi, and Patrick Baud
 Volcanic edifice weakening via thermal reactions
- A37 EGU2011-10139
Olivier Lengliné, Jean Schmittbuhl, Jean Elkhoury, Jean-Paul Ampuero, Renaud Toussaint, and Knut Jorgen Maloy
 Interplay of seismic and aseismic deformation during brittle creep crack propagation

- A38 EGU2011-10209
Elizabeth Gaunt, Peter Sammonds, Rosanna Smith, Philip Meredith, and Christopher Kilburn
 Volcanic dome stability; Permeability and fluid pressurisation of the Mount St Helens 2004-2008 lava dome complex
- A39 EGU2011-10450
Gianluca Gola, Vincenzo Pasquale, Paolo Chiozzi, and Massimo Verdoya
 Appropriate mixing models to estimate thermal properties of clastic and chemical/biochemical rocks
- A40 EGU2011-14195
Charlotte Feneis, Bettina Scheu, Yan Lavallee, and Donald B. Dingwell
 Effect of water saturation on the fragmentation threshold and tensile strength of rocks in volcanic environments
- A41 EGU2011-7831
Jean Sulem, Ioannis Stefanou, and Emmanuil Veveakis
 Strain localization during rapid shearing of a saturated rock layer: Preferred instability wave length and shear band thickness

EMRP9/TS2.9 – Micro-mechanics of brittle faulting (co-organized) – Orals

Convener: Patrick Baud | Co-Conveners: Alexandre Schubnel, Fabrizio Balsamo

Room: 42

Chairperson: Alexandre Schubnel

- 08:30–08:45 EGU2011-6377
Roger Soliva, Richard Schultz, Gregory Ballas, Alfredo Taboada, Elodie Sallet, Christopher Wibberley, and Antonio Benedicto
 The relationship between deformation band properties, tectonic regime and burial in porous sandstone
- 08:45–09:00 EGU2011-6691
Fabio Trippetta, Cristiano Collettini, Sergio Vinciguerra, and Philip G. Meredith
 Evolution of mechanical properties under cyclic stress experiments: results and microstructures of Triassic Evaporites
- 09:00–09:15 EGU2011-6072
Mat?j Pe?, Holger Stünitz, and Renée Heilbronner
 Brittle deformation in shear experiments at elevated pressures and temperatures
- 09:15–09:30 EGU2011-3300
Marie Violay, Benoit Gibert, David Mainprice, Brian Evans, Philippe Adrien Pezard, and Jean-Marie Dautria
 An experimental study of the brittle-ductile transition of basalt under oceanic crust conditions
- 09:30–09:45 EGU2011-1964
Mathilde Adelinet, Jérôme Fortin, Alexandre Schubnel, and Yves Guéguen
 Micro-mechanical characterization of a basaltic geothermal reservoir from laboratory geophysical tools
- 09:45–10:00 EGU2011-9476
Dion Weatherley
 Investigations on the role of microstructure in brittle failure using discrete element simulations
- 10:00–10:15 EGU2011-3545
David Amitrano
 The role of friction and heterogeneity in damage localization.

EMRP9/TS2.9 – Micro-mechanics of brittle faulting (co-organized) – Posters

Convener: Patrick Baud | Co-Conveners: Alexandre Schubnel, Fabrizio Balsamo

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Patrick Baud

- A1 EGU2011-4736
Alexandre Chemenda
 Theory and numerical models of compaction banding
- A2 EGU2011-1921
Patrick Baud, Wei Zhu, and Teng-fong Wong
 Micromechanical basis for the Coulomb failure parameters
- A3 EGU2011-3286
Florent Gimbert, Gael Combe, David Amitrano, and Jérôme Weiss
 Multi-scale analysis of strain localization within granular materials.
- A4 EGU2011-4872
 Christian Klimczak, Roger Soliva, **Richard Schultz**, and Jean Chéry
 Growth of deformation bands in a multi-layer sequence: Orange quarry, southern France

- A5 EGU2011-9285
Heather Short and Alain Tremblay
Evidence for shear band initiation approximately parallel to the acute and obtuse bisectors of the irrotational lines of flow in a general shear zone
- A6 EGU2011-10377
Antonino Cilona, Fabrizio Agosta, and Emanuele Tondi
Preliminary results of the microstructural and textural characterization of compaction bands affecting four porous carbonate formations
- A7 EGU2011-816
Ahmed Saleh
The effect of uniaxial compression in the behavior of remanent and induced magnetizations for basaltic rocks from Wadi Abou Terifya, Egypt
- A8 EGU2011-10823
Nicolas Brantut, Alexandre Schubnel, and Yves Guéguen
Damage and Rupture Dynamics at the Brittle/Ductile Transition: the Case of Gypsum
- A9 EGU2011-10984
Torbjorn Bjork, Alexandre Schubnel, Karen Mair, and Sergio Vinciguerra
Acoustic emission rate stress sensitivity caused by stress perturbations during brittle creep deformation of Fontainebleau sandstone
- A10 EGU2011-10134
Ludovit Kubicar
Investigation of water diffusion in porous materials by thermal conductivity sensor.
- A11 EGU2011-9326
Pavel Pokatashkin, Andrey Karakin, Pyotr Kuharenko, and Yuri Kuharenko
Dilatancy and compaction of saturated granular media
- A12 EGU2011-5605
Filiz Af?ar, Hildegard Westphal, and Sonja Leonie Philipp
Influence of sedimentary facies on rock hardness in limestone-marl alternations of the Jurassic Blue Lias Formation (Bristol Channel Basin, UK)
- A13 EGU2011-11134
Mandy Duda and Jörg Renner
Dilatancy hardening and water weakening in sandstones

EMRP10/TS2.10 – The transport properties of geomaterials: Theory, modelling, measurement, application and integration (co-organized) – Orals

Convener: Matthew Jackson | Co-Conveners: Harald Milsch, Jérôme Fortin

Room: 42

Chairperson: Matthew Jackson and Jerome Fortin

- 13:30–13:45 EGU2011-4557
Alexis Maineult, Fernand Lopes, Jean-Jacques Sibilla, Lucille Trevez, and Maria Zamora
Laboratory measurements of self-potential signals induced by displacements of saline fronts
- 13:45–14:00 EGU2011-8907
Emmanuel David, Jerome Fortin, Alexandre Schubnel, Yves Gueguen, and Robert W. Zimmerman
Frequency, pressure, and pore fluid dependence of elastic wavespeeds: new laboratory measurements on Fontainebleau sandstone
- 14:00–14:15 EGU2011-3263
Marie Violay, Benoit Gibert, Pierre Azais, Philippe Adrien Pezard, Gérard Lods, and Olafur Flovenz
Laboratory measurements of basalt electrical conductivity on saturated samples at upper crust conditions: a new electrical HT, HP cell.
- 14:15–14:30 EGU2011-1958
Aliaksei Pazdniakou and **Pierre Adler**
Multiphase flow, deformation and wave propagation in porous media
- 14:30–14:45 EGU2011-2608
Guido Blöcher, Thomas Reinsch, and Harald Milsch
Evaluation of poro-elastic responses of porous media by the use of fibre optic sensors.
- 14:45–15:00 EGU2011-13168
Marieke Rempe, Thomas Mitchell, Joerg Renner, Stuart Nippres, Yehuda Ben-Zion, Thomas Rockwell, Steven Smith, and Giulio Di Toro
Investigating the Damage Pattern of Fault Zone Rocks by In-Situ Seismic Field Measurements and Laboratory Experiments

Chairperson: Harald Milsch and Matthew Jackson

- 15:30–15:45 EGU2011-2191
Brian Berkowitz
 On the use of effective parameters to describe transport phenomena in geomaterials
- 15:45–16:00 EGU2011-8516
Siavash Ghabezloo and Ahmad Pouya
 Numerical evaluation of the equivalent permeability of randomly cracked porous media
- 16:00–16:15 EGU2011-1454
Adeline Pons, David Christian, Jérôme Fortin, Sergei Stanchits, and Jean-Marie Mengus
 X-ray imaging during capillary imbibition: a study on how compaction bands impact fluid flow in Bentheim sandstone
- 16:15–16:30 EGU2011-1733
Susanne Hemes, Guillaume Desbois, Janos L. Urai, Mieke de Craen, Miroslav Honty, and Stéphane Brassinnes
 New technique for pore-space investigations of clay materials: A case study on Boom Clay - reference host formation for geological disposal of radioactive waste in Belgium.
- 16:30–16:45 EGU2011-6083
Manav Tyagi, Thomas Gimmi, and Sergey Churakov
 Modeling clay micro-structures and computation of their effective diffusion coefficients
- 16:45–17:00 EGU2011-9052
Julia Schneider, Peter Flemings, Ruairi Day-Stirrat, and John Germaine
 Insights into pore-scale controls on mudstone permeability and compressibility through resedimentation experiments

EMRP10/TS2.10 – The transport properties of geomaterials: Theory, modelling, measurement, application and integration (co-organized) – Posters

Convener: Matthew Jackson | Co-Conveners: Harald Milsch, Jérôme Fortin

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Jerome Fortin, Harald Milsch and Matthew Jackson

- A14 EGU2011-1963
Mathilde Adelinet, Mickaele Le Ravalec, Catherine Dorbath, Jérôme Fortin, and Yves Guéguen
 Microstructure and fluid state in an Icelandic geothermal reservoir from inversion of tomography data
- A15 EGU2011-10316
Maria Kuteynikova and Beatriz Quintal
 Numerical modeling of wave-induced fluid flow in 3D patchy saturated media
- A16 EGU2011-2875
 Wen-Jie Wu and **Jia-Jyun Dong**
 Estimating the porosity-depth relation of sedimentary rocks from an effective stress/ stress history-dependent porosity model
- A17 EGU2011-6035
Thomas Reinsch, Guido Blöcher, Harald Milsch, Kort Bremer, Elfed Lewis, Gabriel Leen, and Steffen Lochmann
 In-situ pore pressure determination - application of a fibre optic sensor for the determination of rock physical properties
- A19 EGU2011-2485
Harald Milsch, Mike Priegnitz, and Guido Blöcher
 Changes in rock physical properties of gypsum samples dehydrated in air
- A20 EGU2011-5460
Florian Füsseis, Christoph Schrank, Ali Karrech, Ghassen Moalla, Stefan Revets, and Klaus Regenauer-Lieb
 Gypsum dehydration as a pore pressure diffusion process - insights from time-series Synchrotron X-ray microtomography, thermodynamic analysis and finite element modelling
- A21 EGU2011-5435
Ju-Won Oh, Hyun-Key Jung, and Dong-Joo Min
 Negative apparent resistivity based on physical modeling
- A22 EGU2011-12316
 Jan Volkmann, **Norbert Klitzsch**, and Oliver Mohnke
 Impedance Spectroscopy for assessing the wetting conditions of reservoir rocks
- A23 EGU2011-3970
Jan Vinogradov, Matthew Jackson, and Adrian Butler
 Measurements of spontaneous potential in chalk with application to aquifer characterization in the southern UK
- A24 EGU2011-11753
Eli Leinov and Matthew Jackson
 Experimental measurements of electrochemical coupling potentials in NaCl-brine saturated sandstone cores

- A25 EGU2011-4765
Jon Saunders and Matthew Jackson
Inversion of downhole streaming potentials to determine water front position
- A26 EGU2011-5924
Matthew Jackson, Eli Leinov, Murtaza Gulamali, and Jan Vinogradov
Water saturation dependence of streaming potential coupling coefficient and excess charge density in sandstones during drainage and imbibition
- A27 EGU2011-247
Sofia Lopes and Maxim Lebedev
Reservoir rock fluid imbibition experiments: complex study using X-ray computer tomography and ultrasonic techniques
- A28 EGU2011-8327
Alban Souche and Marcin Dabrowski
Rayleigh-Bénard convection in porous media: benchmark of FEM models
- A29 EGU2011-10393
Danica Fidriková
Application of Hot-ball sensor for investigation of water diffusion in sandstone and marble
- A30 EGU2011-12480
Hauke Marquardt, Katharina Marquardt, and Sergio Speziale
Ion Cutting of Large Samples for Brillouin Scattering: Elastic Anisotropy of Antigorite at High-Pressures
- A31 EGU2011-12603
Vladimir Greif, Martin Brcek, Jan Vlcko, Tatiana Durmekova, and Ivana Simkova
Model of the thermo-mechanical behavior of the Pravcicka brana sandstone rock arch (Czech Republic) and Perun's rock at Spis Castle (Slovakia).

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

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

Room: 22

Chairperson: n.n.

- 13:30–13:45 EGU2011-5352
Christian Heine, Simon Williams, and R. Dietmar Müller
Intracontinental rifts and plate kinematic models - towards a global deforming plate model
- 13:45–14:00 EGU2011-7487
Susanne Buiter, Bernhard Steinberger, Sergei Medvedev, and Joya Tetreault
Could the mantle cause subsidence of the Congo Basin?
- 14:00–14:15 EGU2011-3588
Yuriy P. Maystrenko and Magdalena Scheck-Wenderoth
Deep structure of the Central European Basin System and adjacent areas based on integrated 3D gravity and 3D thermal analyses
- 14:15–14:30 EGU2011-2265
Heijn van Gent, Frank Strozyk, Janos Urai, and Martin de Keijzer
Seismic interpretation of the internal geometry of the Zechstein evaporites - Large scale structures and internal stability
- 14:30–14:45 EGU2011-1341
Gerald Gabriel, **David Tanner**, Nicole Martini, Hermann Buness, and Charlotte M. Krawczyk
Three-dimensional basin analysis of the Heidelberg Basin, Upper Rhine Graben
- 14:45–15:00 EGU2011-3433
Nicolas Pinet and Denis Lavoie
Geological and geophysical setting of the intracratonic Hudson Bay basin, Canada
- Chairperson: n.n.
- 15:30–15:45 EGU2011-2386
Nina S. C. Simon, Julia Semprich, and Yuri Y. Podladchikov
A phase transition model for basins
- 15:45–16:00 EGU2011-12011
Kenni Dinesen Petersen, Søren Bom Nielsen, Ole Rønø Clausen, Randell Stephenson, Hans Thybo, and Taras Gerya
Extensional basin evolution in the presence of small-scale convection: Subsidence and stratigraphy
- 16:00–16:15 EGU2011-12996
Ebbe Hartz, Sergei Medvedev, Dani W. Schmid, Lars Ruepke, and Bjørn Tore Larsen
Basin formation and inversion: The role of shear heating, tectonic pressure and hydration/melting in the lithosphere

- 16:15–16:30 EGU2011-2517
Judith Sippel, Magdalena Scheck-Wenderoth, and Björn Lewerenz
 Predicting the lithosphere-scale thermal field for the Beaufort-Mackenzie Basin (Arctic Canada)
- 16:30–16:45 EGU2011-2048
Delphine Rouby, Thierry Nalpas, Paul Jermannaud, Cécile Robin, Francois Guillocheau, and Stephane Raillard
 3D kinematics of gravity driven deformation in large deltas and control by the delta front migration : the case of the Plio-Pleistocene of the Eastern Niger Delta
- 16:45–17:00 EGU2011-10223
Nikolai Lopatin, Ilya Tikhonov, Ksenia Sitar, Tamara Emets, Vasiliy Kalabin, and Sergey Bakaikin
 Basin dynamics and petroleum system modeling for Upper Proterozoic source rocks in southern part of the East Siberian platform

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

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

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- A42 EGU2011-2928
Julia Autin, Magdalena Scheck-Wenderoth, Markus J. Loegering, Zahie Anka, Eduardo Vallejo, Jorge F. Rodriguez, Denis Marchal, Fabian Dominguez, Christian Reichert, and Rolando di Primio
 Crustal structure of the Colorado Basin from 3D gravity modelling
- A43 EGU2011-2982
Magnus Wangen, Rolf Mjelde, and Jan Inge Faleide
 The extension of the Vøring margin (NE Atlantic) in case of different degrees of magmatic underplating
- A44 EGU2011-3343
 Christina von Nicolai, **Björn Lewerenz**, and Magdalena Scheck-Wenderoth
 Modelling the Tectonic History of Sedimentary Basins by Integration of 3D Backstripping and Thermal Subsidence
- A45 EGU2011-12645
Helen Doherty and Graham Williams
 The Rheic Ocean Gondwana passive margin: insights from structural analysis and stratigraphic response
- A46 EGU2011-11631
Eun Young Lee and In-Chang Ryu
 Backstripping analysis of the Kachi-1 well in the Gunsan Basin in Yellow Sea, offshore Korea
- A47 EGU2011-11741
Eun Young Lee
 Quantification of extension (?) and Miocene uplift of the Gunsan Basin in the Yellow Sea, offshore Korea
- A48 EGU2011-3608
Abir Chihaoui, Etienne Jaillard, and Jean-Louis Latil
 Sedimentologic and paleoenvironmental constraints on the structural evolution of the southern Tethyan margin in Tunisia during the Lower Cretaceous
- A49 EGU2011-6059
Ole R Clausen, Søren B. Nielsen, David L. Egholm, and Bartosz Goledowski
 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, Abelatif Lahfid, Jean Pierre Pozzi, and Jean-Claude Ringenbach
Toward the use of a new and fast maturity indicator in very low-grade metamorphic clays 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, György 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

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

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

Room: 26

Chairperson: L NIELSEN

- 08:30–08:45 EGU2011-9517
Robert Ferguson, Adam Pidlisecky, and Colin Rowel
Shot record depth migration of georadar data
- 08:45–09:00 EGU2011-13422
Walter Wheeler, Björn Heincke, Giuliana Rossi, and Niklas Allroggen
GPR, seismic and geo-electric investigation of a paleokarst breccia pipe field, Svalbard

- 09:00–09:15 EGU2011-5845
Jens Tronicke, Hendrik Paasche, and Urs Böniger
 Inversion of crosshole traveltimes using particle swarm optimization
- 09:15–09:30 EGU2011-7882
Giovanni Angelo Meles, Stewart Greenhalgh, Jan van der Kruk, Hansruedi Maurer, and Alan Green
 GPR Full Waveform Sensitivity Analysis using a FDTD Adjoint Method
- 09:30–09:45 EGU2011-1302
CharLotte Krawczyk, Ulrich Polom, Stefan Trabs, and Torsten Dahm
 High-resolution imaging of sinkhole structures in the city of Hamburg by urban shear-wave reflection seismics
- 09:45–10:00 EGU2011-4532
Stewart Greenhalgh, Bing Zhou, and Mark Greenhalgh
 Wavenumber sampling strategies for 2.5D frequency-domain seismic modelling in general anisotropic media

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

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

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: M YEDLIN; K HOLLIGER

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

- XY706 EGU2011-5635
Vassilis Karastathis, Athanassios Ganas, Petros Karmis, George Drakatos, and Kostas Makropoulos
 Application of seismic velocity modelling at footwall escarpment areas in Greece
- XY707 EGU2011-13151
 Jenneke G. Bakker, **Jan van der Kruk**, Jutta Bikowski, Colby M. Steelman, Anthony L. Endres, and Harry Vereecken
 Multi-layer inversion of freezing induced dispersive Ground Penetrating Radar data
- XY708 EGU2011-1353
Jens Buchner, Alexander Kühne, Benny Antz, Ute Wollschläger, and Kurt Roth
 Evaluating surface GPR measurements on a layered soil model using a ray path approach and the full solution of Maxwell's equations
- XY709 EGU2011-10936
Matthias Leopold and Jörg Völkel
 Application of GPR within an artificial water catchment in NE Germany
- XY710 EGU2011-7694
Jorrit Fahlke, Jens Buchner, Olaf Ippisch, Kurt Roth, and Peter Bastian
 Comparison of 3D ground-penetrating radar simulations with measurements on the ASSESS-GPR test site
- XY711 EGU2011-8636
 Aránzazu Luzón, Óscar Pueyo, **Antonio Pérez**, and Arsenio Muñoz
 GPR application to the study of tufa constructions: a tool for hydrocarbon exploration
- XY712 EGU2011-5530
Lars Nielsen and Lars B. Clemmensen
 Constraints on relative sea-level fluctuations at the island of Anholt, Kattegat Sea, from AD ~1000 to the beginning of the 20th century based on interpretation of GPR reflection data

TS5.1/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

Convener: 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

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

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

Room: 26

Chairperson: n.n.

- 13:30–13:45 EGU2011-8772
Kate Thatcher, Graham Westbrook, Anne Chabert, Sudipta Sarkar, Tim Minshall, and Christian Berndt
Timing of methane release from hydrate dissociation on the west Svalbard margin

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

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

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

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Christian Berndt & Zahie Anka

- XL273 EGU2011-828
Dimitri Laurent, Aurélien Gay, Sébastien Lacaze, Christian Bernt, Sverre Planke, Régis Mourgues, Roger Soliva, Catherine Baudon, and Michel Lopez
 Polygonal fault systems in Gjallar Ridge, offshore Norway : implications for early processes of deformation, faulting and fluid flow.
- XL274 EGU2011-5645
Ricardo Leon, Luis Somoza, Teresa Medialdea, Tomas Vazquez, and Francisco Javier Gonzalez
 Blind Submarine Valleys in the Gulf of Cadiz. Structures of seabed fluid flow
- XL275 EGU2011-488
Ilya Ostanin, Zahie Anka, Rolando Di Primio, Jon Erik Skeie, and Asdrubal Bernal
 Analysis of fluid migration and leakage in the Hammerfest Basin, South Western Barents Sea, from 3D seismic reflection data.
- XL276 EGU2011-10295
Vincent Riboulot, Gwénaél Jouët, Antonio Cattaneo, and Serge Berné
 Obliquely migrating pockmarks formed in response to 100 kyr and millennial-scale sea-level changes in the Gulf of Lions (Western Mediterranean)
- XL277 EGU2011-4597
Patrice Imbert, Aurelien Gay, Maxime Guiraud, Sutieng Ho, and Sebastien Nahan
 Polygonal fault networks and pockmarks in fine-grained series: timing and mutual relationships
- XL278 EGU2011-5612
Nikolaus Baristeas, Zahie Anka, Rolando di Primio, Jorge Rodriguez, Denis Marchal, Fabian Dominguez, and Eduardo Vallejo
 Characterization of Hydrocarbon Leakage Indicators in the Malvinas Basin, Offshore Argentine Continental Margin
- XL279 EGU2011-8575
Sudipta Sarkar, Anne Chabert, Christian Berndt, Timothy A. Minshull, Graham K. Westbrook, and Dirk Klaeschen
 Fluid migration within gas hydrate bearing shallow marine sediments offshore Western Svalbard
- XL280 EGU2011-765
Enmanuel Rodrigues, Rolando di Primio, Zahie Anka, Daniel Stoddart, and Brian Horsfield
 Leakage of hydrocarbons in a glacially influenced marine environment: Hammerfest Basin (Southwestern Barents Sea)
- XL281 EGU2011-4178
Liwen Chen, Wu-Cheng Chi, and Char-Shine Liu
 Using BSRs to Estimate Spatial Variations of Vertical Fluid Flow Rates in Offshore Taiwan Accretionary Prism
- XL284 EGU2011-4780
Jong-Hwa Chun, Jin-Ho Kim, Byong-Jae Ryu, Jang-Jun Bahk, Ji-Hoon Kim, Young-Jun Kim, and Chang-Sik Lee
 Gas-charged sediments from the eastern continental shelf off Korea
- XL285 EGU2011-12736
Adriano Mazzini, Giuseppe Etiope, and Henrik Svensen
 Was the Lusi eruption triggered by volcanic intrusions? New insights from gas geochemistry

- XL286 EGU2011-10736
Julia Nickel, Jens Kallmeyer, Kai Mangelsdorf, Rolando di Primio, and Daniel Stoddart
 Investigation of Microbial Activity in Pockmarks of the SW-Barents Sea
- XL287 EGU2011-3347
Alain Zanella and Peter Robert Cobbold
 Influence of fluid overpressure, maturation of organic matter, and tectonic context during the development of 'beef': physical modelling and comparison with the Wessex Basin, SW England
- XL288 EGU2011-12299
Volker Liebetrau, Nico Augustin, Anton Eisenhauer, Jan Fietzke, Erwin Suess, Steffen Kutterolf, Volker Thiel, Han Xiqiu, and Peter Linke
 Time scales and potential controls of focused fluid flow deciphered in microbially mediated carbonates

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 Bokermann, and Christel Tiberi
 Toroidal asthenospheric flow beneath the western Alps from seismic anisotropy
- 09:30–09:45 EGU2011-11004
Abdelkrim Aoudia, Alessandra Borghi, Valentina Barletta, Letizia Cannizzaro, Andrea Walpersdorf, Christof Voelksen, Riccardo Barzaghi, and Roberto Sabadini
 Horizontal and Vertical CGPS Velocity Fields and the Active Deformation of the European Alps
- 09:45–10:00 EGU2011-8317
László Fodor, Frank Horváth, Em? Márton, Kamil Ustaszewski, and Endre Dombrádi
 Constraints for the extrusion tectonics and back-arc extension in the Pannonian basin: a state of the art

COFFEE BREAK

Chairperson: Alastair Robertson and Zohar Gvirtzman

- 10:30–10:45 EGU2011-9446
Gregory Houseman, Graham Stuart, Ben Dando, Yong Ren, Ewald Brückl, Endre Heged?s, Slavica Radovanovic, and Cbp Working Group
 Detachment of mantle downwelling beneath the Pannonian Basin caused lithospheric extension?
- 10:45–11:00 EGU2011-8894
Ferenc Horváth and Claudio Faccenna
 Central Mediterranean mantle flow system and the formation of the Pannonian basin
- 11:00–11:15 EGU2011-9981
Nuno Simão, Nicolas Chamot-Rooke, Alain Rabaute, and Corné Kreemer
 Relative convergence of the Nubia Plate towards the Eurasia Plate: the case of the lack of seismicity in the Algerian-Tyrrhenian Trough
- 11:15–11:30 EGU2011-7711
Eugénie Pérouse, Nicolas Chamot-Rooke, Alain Rabaute, and Pierre Briole
 A new model to link the present-day kinematics of the Central Mediterranean and the Eastern Mediterranean

- 11:30–11:45 EGU2011-4015
Kamil Ustaszewski, Daniel Bernoulli, Bernhard Fügenschuh, Liviu Matenco, Roland Oberhänsli, Senecio Schefer, and Stefan M Schmid
 Tracing the closure of Neotethys from the Alps to Western Turkey I: The Sava-Izmir-Ankara suture zone
- 11:45–12:00 EGU2011-12497
Thomas Meier, Brigitte Endrun, Sergei Lebedev, Celine Tirel, and Wolfgang Friederich
 Layered deformation within the Aegean continental crust and mantle revealed by seismic anisotropy

LUNCH BREAK

Chairperson: Zohar 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 Hasözbek, Burhan Erdogan, Erhan Akay, Muharrem Satir, Wolfgang Siebel, and Gullu Deniz Dogan
 Progressive Magmatism in Western Anatolia (Turkey)
- 14:15–14:30 EGU2011-12007
Ilaria Mazzini, Marianna Ková?ová, Peter Joniak, Bora Rojay, and Nuretdin Kaymakci
 Late Miocene to Quaternary evolution of the Çankiri Basin (Central Anatolia, Turkey)
- 14:30–14:45 EGU2011-10438
Côme Lefebvre, Maud J.M. Meijers, Nuretdin Kaymakci, Cor G. Langereis, Douwe J.J. van Hinsbergen, and Reinoud L.M. Vissers
 Reconstructing the geometry of Central Anatolia during the Late Cretaceous, a rotational paleomagnetic study on granitoids.
- 14:45–15:00 EGU2011-1519
Alastair Robertson, Gillian McCay, Kemal Tasl?, Isabella Raffi, Robert Ellam, Kroon Dick, and Mehmet Necdet
 Episodic tectonic reactivation of S Neotethys in the E Mediterranean as evidenced from the Kyrenia (Girne) Range, Cyprus

Chairperson: Claudio Faccenna and Rob Govers

- 15:30–15:45 EGU2011-1857
Christian Huebscher, G. Ali Dehghani, Axel Ehrhardt, Jeremy Hall, Marion Jegen, Jim Mechie, and Michael Weber
 Incipient Continent-Continent Collision between the Eratosthenes Seamount and Cyprus / Eastern Mediterranean
- 15:45–16:00 EGU2011-4638
Oded Bar, Zohar Gvitzman, 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 Gvitzman 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 brianconnaise (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 Özcan
 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 TENGÜN, Erdi Yigitbaşı, 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 Çınar, Jeremy Hall, Ali Aksu, Savaş Gürçay, and Günay Çifçi
 The Miocene to Recent evolution of the western Antalya Basin and its linkage with the Anaximander Mountains and Isparta Angle
- XL318 EGU2011-10733
Sibel Tatar Erkül and Fuat Erkül
 Petrology and petrogenesis of syn-extensional granitoids in the Menderes metamorphic core complex, western Turkey - geodynamic implications for Aegean extension
- XL319 EGU2011-7948
Mehmet Cihat Alcicek and Johan H. ten Veen
 Neogene palaeogeography of SW Anatolia: A case study inferred from Tectonic-Sedimentation-Climate interactions in an array of evolving orogen-top basins

- XL320 EGU2011-4256
Ezgi Ç?nar, Heather King, Ali Aksu, Jeremy Hall, Sava? Gurçay, and Günay Çifçi
 The Miocene to Recent evolution of an active transform fault at the junction of Hellenic and Cyprus Arcs, eastern Mediterranean: the linkage between the western Antalya Basin and Finike Basin and Anaximander Seamounts
- XL321 EGU2011-10329
kenan akbayram, aral okay, and muharrem sat?r
 Evidence for Existence of Strandja Massif along the Intra-Pontide suture zone, between Istanbul and Sakarya Terranes
- XL322 EGU2011-12391
Tamás Mikes, Andreas Mulch, Bora Rojay, Tina Lüdecke, and Fabian Schemmel
 Neogene topography and precipitation patterns of the Central Anatolian Plateau
- XL323 EGU2011-10326
Jeroen Bartol, Rob Govers, and Rinus Wortel
 The Central Anatolian Plateau: relative timing of uplift and magmatism
- XL324 EGU2011-4998
Bahar Kurtbo?an, Susan Walsh, Tiffany Piercey, Selin Akhun, Ali Aksu, Jeremy Hall, and Günay Çifçi
 Neogene sedimentary history of the Cilicia Basin, eastern Mediterranean: a contribution to the TopoEurope VAMP project
- XL325 EGU2011-2071
Josh Steinberg, Zohar Gvirtzman, Yehoshua Folkman, and Zvi Garfunkel
 The origin and nature of the rapid Late Tertiary filling of the Levant Basin
- XL326 EGU2011-7691
 Clément Hardy, **Catherine Homberg**, Éric Barrier, and Yehuda Eyal
 A numerical model of the evolution of the Dead Sea transform during the Neogene
- XL327 EGU2011-7401
Yehuda Eyal
 The Syrian Arc Fold system: Age and rate of folding
- XL328 EGU2011-7462
Marc Hässig, Yann Rolland, Marc Sosson, and Ghazar Galoyan
 New P-T-t data on the metamorphic sole of the Amasia ophiolites and implications for the geodynamical process, NW of the Sevan-Akera suture zone, Lesser Caucasus (Armenia)
- XL329 EGU2011-5053
Alexei L. Sobissevitch, Yuri P. Masurenkov, Dmitriy V. Likhodeev, Irina N. Pouzich, and Ninel I. Laverova
 The modern hydrothermal system of the crust-mantle origin related to fluid-magmatic activity of volcanic centers in Northern Caucasus
- XL330 EGU2011-715
Adam Forte, Eric Cowgill, and Ibrahim Murtuzayev
 Plio-Pleistocene Stratigraphy of the Kura Basin, Azerbaijan: Implications for the Formation of the Greater Caucasus and Kura Fold-Thrust Belt
- XL331 EGU2011-348
Fuad Aliyev
 Seismic hazard assessment of Azerbaijan territory using new seismological and GPS data
- XL332 EGU2011-7996
Daniel Reif, Kurt Decker, Bernhard Grasemann, and Herwig Peresson
 Fracture patterns and generations in the simply folded part of the Zagros fold-and-thrust belt, Northern Iraq
- XL333 EGU2011-7037
Antonio Castro and Mehraj Aghazadeh
 Post-collisional monzonitic magmatism from the Zagros hinterland. Implications on lithospheric processes
- XL334 EGU2011-9040
Samuel Angiboust, Philippe Agard, Cees-Jan De Hoog, and Jafar Omrani
 Nature and structure of the Sistan « mélange » ophiolitic belt (Eastern Iran): Insights on deep accretionary wedge and subduction channel processes
- XL335 EGU2011-10926
Ivone Jiménez-Munt, Manel Fernàndez, Eduard Saura, Jaume Vergés, Daniel Garcia-Castellanos, and Antonio Villaseñor
 3D lithospheric structure and regional/residual bouguer anomalies from Arabia-Eurasia collision in Iran
- XL336 EGU2011-6657
Giuseppe Pezzo, Simone Atzori, and Andrea Antonoli
 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

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 Tan?rcan
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
- XY666 EGU2011-5617
Frauke Klingelhoefer, Chao-Shing Lee, **Marc-Andre Gutscher**, Jing-Yi Lin, and Chin-Wei Liang
The rupture zone of the Feb. 2010 M8.8 Maule Chile earthquake : preliminary relocation of aftershocks from a temporary marine seismic network and numerical modeling of forearc thermal structure
- XY667 EGU2011-6021
Kuo-Jen Chang, Rou-Fei Chen, Jian-Zhong Li, Yuping Liu, Chia-Yu Lu, and Chih-Tung Chen
Preliminary analysis of active deformation in Chengdu foreland basin, China
- XY668 EGU2011-8845
Anne Deschamps, Bernard Mercier de Lépinay, Marie Paule Bouin, Julie Perrot, Frauke Klingelhoefer, Valérie Clouard, Philippe Charvis, Boris Marcaillou, and David Graindorge
A new insight on the HAITI event : aftershock study.
- XY669 EGU2011-9088
Denis Lombardi, Thierry Camelbeeck, Thomas Lecocq, Giovanni Rapagnani, and Michel Van Camp
Preliminary data analysis from a permanent seismic station newly installed in the Sør Rondane Mountains, East Antarctica
- XY670 EGU2011-10653
Muzli Muzli, Joachim Saul, Guenter Asch, Rongjiang Wang, and Frederik Tilmann
Coseismic displacement of the 2010, Mw 7.8 Mentawai earthquake obtained from Strong Motion Data
- XY671 EGU2011-12780
Anke Dannowski, Ingo Grevemeyer, Ernst R. Flueh, Martin Thorwart, and Wolfgang Rabbel
Crustal structure from teleseismic P-wave receiver function analysis in the Maule Region, Central Chile
- XY672 EGU2011-12170
Ivonne Arroyo, Ingo Grevemeyer, Ernst Flueh, Helene Kraft, Eduardo Moscoso, Diana Comte, Martin Thorwart, Yvonne Dzierma, and Wolfgang Rabbel
3-D Velocity Structure and Seismotectonics prior to the 2010 Chile Earthquake (Mw 8.8) from an Amphibious Seismological Network
- XY673 EGU2011-11303
frederick boudin, Sebastien Allgeyer, Pascal Bernard, Hélène Hébert, Manuel Olcay, and Raul Madariaga
Near Field data analysis of the Maule event by c omparison between tide gauges, long base tiltmeters and broad band seismometers.

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 Mahdiah 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

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 Youssof, 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 Schmoltdt, 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)

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

Thursday, 07 April

PS10.0/GMPV28 – Volcanism and Tectonics in the Solar System (co-listed) – Orals

Convener: Thomas Platz | Co-Conveners: Matteo Massironi, Graziella Caprarelli, Paul K. Byrne, Pascal Allemand, Harald Hiesinger

Room: 32

Chairperson: Thomas Platz, Matteo Massironi

- 10:30–10:45 EGU2011-1570
Ronald Greeley
 Terrestrial analogs to planetary basaltic volcanism
- 10:45–11:00 EGU2011-4197
Krishan Khurana, Xianzhe Jia, Margaret Kivelson, Francis Nimmo, Gerald Schubert, and Christopher Russell
 Evidence of a global magma ocean in Io's interior
- 11:00–11:15 EGU2011-658
Paul Byrne, Eoghan Holohan, Matthieu Kervyn, Benjamin van Wyk de Vries, John Murray, and Valentin Troll
 A Spreading-Sagging Continuum for the Structure of Large Volcanoes on the Terrestrial Planets
- 11:15–11:30 EGU2011-11521
Rikke Pedersen
 Remote sensing observations of active volcanic and tectonic processes in Iceland
- 11:30–11:45 EGU2011-814
Riccardo Pozzobon, Andrea Bistacchi, and Matteo Massironi
 Association of cone sheets and radial dykes on Ascraeus Mons (Mars): structural analysis and modelling
- 11:45–12:00 EGU2011-8785
Amanda L. Nahm, Richard A. Schultz, and David A. Kring
 Forward mechanical modeling of the Rupes Recta normal fault in eastern Mare Nubium, the Moon
- 12:00–12:15 **Poster Introductions & Discussion**

PS10.0/GMPV28 – Volcanism and Tectonics in the Solar System (co-listed) – Posters

Convener: Thomas Platz | Co-Conveners: Matteo Massironi, Graziella Caprarelli, Paul K. Byrne, Pascal Allemand, Harald Hiesinger

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Matteo Massironi, Paul Byrne

- Z114 EGU2011-14136
Paul K. Byrne, Benjamin van Wyk de Vries, Eoghan P. Holohan, John B. Murray, and Valentin R. Troll
 The Influence of Lithospheric Flexure Upon the Structure of Olympus Mons
- Z116 EGU2011-7772
Klaus Gwinner, James W. Head, and Lionel Wilson
 Types, morphology, and significance of vent structures on the summit and flanks of Pavonis Mons, Mars
- Z117 EGU2011-12975
Thomas Platz, Ernst Hauber, Oryaëlle Chevrel, Laetitia Le Deit, Frank Trauthan, Frank Preusker, Ralf Jaumann, and Gerhard Neukum
 Preliminary results on lava flow morphology and vent structures: an example from the Western Volcanic Zone, Iceland
- Z118 EGU2011-12860
 Ernst Hauber, **Thomas Platz**, Laetitia Le Deit, Oryaëlle Chevrel, Bernd Hoffmann, Lena Kuhlmann, Frank Trauthan, Frank Preusker, and Ralf Jaumann
 Mapping of Postglacial Icelandic Lava Flows as Analogues for Mars
- Z119 EGU2011-13166
Thomas Platz and Greg Michael
 Eruption history of the Elysium Volcanic Centre, Mars
- Z120 EGU2011-8545
Anne Deschamps, Pascal Allemand, and Christophe Delacourt
 Comparative study of volcanic landforms on Mars and on the East Pacific Rise using high-resolution AUV and HiRISE data

- Z121 EGU2011-6316
Anezina Solomonidou, Georgios Bampasidis, Athena Coustenis, Konstantinos Kyriakopoulos, Karen Seymour, Mathieu Hirtzig, Emmanuel Bratsolis, and Xenophon Moussas
 Morphotectonic and cryovolcanic structures on Titan and Enceladus with resemblance to terrestrial morphologies
- Z122 EGU2011-165
 Munkhtsetseg Oidov and **Hirokazu Fujimaki**
 Magmatism in Tsagaandelger, Eastern Mongolian Volcanic belt: Petrological and Isotopic Constraints on Mesozoic Geodynamic Setting
- Z123 EGU2011-3480
Glaciale Tiu, Benjamin van Wyk de Vries, and Alfredo Mahar Francisco Lagmay
 Volcanic morphology, volcano alignment and basement structure in the Limagne Fault and Chaîne des Puys: perspectives for remote sensing in the solar system
- Z124 EGU2011-2451
Clinton Conrad, Todd Bianco, Eugene Smith, and Paul Wessel
 Patterns of intraplate volcanism on Earth controlled by asthenospheric shear

SM1.1/G3.9/TS1.2 – Open Session on Seismology (including Beno Gutenberg Medal Lecture) (co-organized) – Orals

Convener: Ramon Carbonell | Co-Conveners: CharLotte Krawczyk

Room: 26

Chairperson: Charlotte Krawczyk

- 13:30–13:45 EGU2011-11910
Alice Gabriel, Jean-Paul Ampuero, Luis A. Dalguer, and P. Martin Mai
 Transition Of Dynamic Rupture Modes In Elastic Media
- 13:45–14:00 EGU2011-12532
Pierre Arroucau, Gordana Vlahovic, and Chris Powell
 Potential Field Investigations in the Eastern Tennessee Seismic Zone
- 14:00–14:15 EGU2011-9020
Zacharie Duputel, Luis Rivera, Yukitoshi Fukahata, and Hiroo Kanamori
 Error estimations for seismic source inversions
- 14:15–14:30 EGU2011-7807
Iva Dasovic, Marijan Herak, and Davorka Herak
 Coda attenuation analysis of Zagreb area, Croatia
- 14:30–14:45 EGU2011-5789
Mario La Rocca, Danilo Galluzzo, Luisa Anna Formisano, Edoardo Del Pezzo, and Roberto Scarpa
 Coherent body waves in the coda of earthquakes recorded by an underground array
- 14:45–15:00 EGU2011-7790
Alireza Alinaghi and Frank Krueger
 Constraining the depth of earthquakes in Iran and Central Asia using a combination of Array techniques and waveform modeling at regional and teleseismic distances
- Chairperson: Ramon Carbonell
- 15:30–15:45 EGU2011-8104
Paola Cusano, Simona Petrosino, Norma Damiano, Mauro Antonio Di Vito, Sandro De Vita, and Edoardo Del Pezzo
 Shallow crustal structure of Solfatara volcano from seismic noise analysis
- 15:45–16:00 EGU2011-11587
Antonino D'Alessandro, Giorgio Mangano, Giuseppe D'Anna, and Dario Luzio
 Palermo 2010 - Underwater seismic monitoring of the epicenter area of the 6 September 2002 Palermo Earthquake
- 16:00–16:15 EGU2011-26
alireza seifollahi
 Optical Seismograph
- 16:15–17:15 EGU2011-14185
Thomas Guy Masters
 Free oscillations for fun and profit (Beno Gutenberg Medal Lecture)

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

GMPV10/G3.11/NH2.7/TS1.8 – Volcano deformation, dynamics, and deep structure (co-organized) – Orals

Convener: Valerio Acocella | Co-Conveners: Agust Gudmundsson, Giuseppe Puglisi, Sigurjon Jonsson, Thomas R. Walter

Room: 20

Chairperson: Acocella/Gudmundsson

- 10:30–10:45 EGU2011-9272
Robert (Bob) White, Hilary Martens, Janet Key, Heidi Soosalu, and Steinunn Jakobsdottir
Dyke Propagation and Deformation under the Icelandic Rift Zone Tracked by Seismicity.
- 10:45–11:00 EGU2011-10053
Margaret Hartley and Thor Thordarson
Formation of Öskjuvatn caldera at Askja, north Iceland: evolution of caldera collapse and implications for the lateral flow hypothesis
- 11:00–11:15 EGU2011-13562
Freysteinn Sigmundsson, Olgeir Sigmarsson, Andy Hooper, Sigrún Hreinsdóttir, Sigurlaug Hjaltadóttir, Kristín Vogfjörð, Þóra Árnadóttir, Rikke Pedersen, Páll Einarsson, Kurt Feigl and the Eyjafjallajökull volcano anatomy Team
The 2010 inflation and deflation sources of Eyjafjallajökull: Magma flow, geochemical characteristics and evidence for intrusion triggering of the explosive summit eruption
- 11:15–11:30 EGU2011-12804
Andrew Hooper, Freysteinn Sigmundsson, Sigrún Hreinsdóttir, Thóra Árnadóttir, David Bekaert, Rikke Pedersen, Matthew Roberts, Páll Einarsson, Benedikt Ófeigsson, Kurt Feigl and the Eyjafjallajökull Geodetic Team
The 2010 inflation and deflation sources of Eyjafjallajökull: Modelling of geodetic data from InSAR and GPS
- 11:30–11:45 EGU2011-9347
Carolina Pagli, Tim Wright, Hua Wang, Eric Calais, Laura Bennati, Rassion, Cynthia Ebinger, Manahloh Belachew, and Elias Lewi
Geodynamics of Afar: 3D crustal velocities and strain rates from multiple InSAR tracks and GPS
- 11:45–12:00 EGU2011-12013
Eleonora Rivalta, Marco Beleggia, and Torsten Dahm
The changing shape of dykes during propagation explains the pattern of induced seismicity
-

LUNCH BREAK

Chairperson: Walter/Acocella

13:30–13:45 EGU2011-9800

Agust Gudmundsson, Nahid Mohajeri, and Zoe Barnett
Power-law size distributions in volcanotectonics

13:45–14:00 EGU2011-430

Joel Ruch, Valerio Acocella, Fabrizio Storti, Marco Neri, Susi Pepe, Giuseppe Solaro, and Eugenio Sansosti
Detachment depth revealed by rollover deformation: an integrated approach at Mount Etna.

14:00–14:15 EGU2011-11476

Alessandro Bonforte, Francesco Guglielmino, and Giuseppe Puglisi
Dynamics preceding and accompanying the 2008-2009 Eruption of Mt. Etna (Italy) imaged by integrated GPS and DInSAR data

14:15–14:30 EGU2011-12004

Danila Scandura, Alessandro Bonaccorso, Gilda Currenti, and Ciro Del Negro
FEM-based inversion of DInSAR data to infer coseismic slip distribution along Pernicana Fault System at Mt Etna

14:30–14:45 EGU2011-2871

Nobuo Geshi, Joel Ruch, and Valerio Acocella
Relationships between caldera size and eruptive volume of magma

14:45–15:00 EGU2011-11641

Eoghan Holohan, Thomas Walter, John Walsh, Benjamin van Wyk de Vries, Martin Schöpfer, and Valentin Troll
Origin and Significance of Oblique-slip Faulting during Caldera Collapse

Chairperson: Jonsson/Puglisi

15:30–15:45 EGU2011-9301

Guillermo Caravantes González, Jeffrey Zurek, Hazel Rymer, Corinne Locke, John Cassidy, and Glyn Williams-Jones
Structural and geophysical study of Masaya Caldera

15:45–16:00 EGU2011-8670

Christelle Wauthier, Valérie Cayol, François Kervyn, and Nicolas d'Oreye
Nyiragongo Volcano 2002 Eruption Constrained by Multibeam InSAR Data

16:00–16:15 EGU2011-11962

Mariarosaria Manzo, Pietro Tizzani, Giuseppe Solaro, Eugenio Sansosti, Paolo Berardino, Andrea Manconi, Antonio Pepe, Susi Pepe, and Riccardo Lanari
Twenty years of ground deformation monitoring at Campi Flegrei caldera (Southern Italy) via advanced space-based remote sensing techniques

16:15–16:30 EGU2011-9561

Michael Lisowski, **Maurizio Battaglia**, and Michael Poland
Analysis of GPS-measured deformation before, during, and after the 2004-2008 dome-building eruption of Mount St. Helens, Washington

16:30–16:45 EGU2011-11916

Francesco Casu
Present scenario and new perspectives for Differential SAR Interferometry in volcanic areas

16:45–17:00 EGU2011-4399

Jose Fernandez and Antonio G. Camacho
Modelling geodetic changes at volcanic areas by extended sources. Model and application examples.

GMPV10/G3.11/NH2.7/TS1.8 – Volcano deformation, dynamics, and deep structure (co-organized) – Posters

Convener: Valerio Acocella | Co-Conveners: Agust Gudmundsson, Giuseppe Puglisi, Sigurjon Jonsson, Thomas R. Walter

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Gudmundsson/Jonsson/Puglisi/Walter

A208 EGU2011-10760

Maike Schubert, Thomas Driesner, Taras Gerya, and Peter Ulmer
Basaltic magma as trigger for felsic intrusions

A209 EGU2011-1102

Gabriele Uenzelmann-Neben, Daniela N. Schmidt, Frank Niessen, and Ruediger Stein
Glacial rebound causes intraplate volcanism off South Greenland

- A210 EGU2011-2638
Vadim Milyukov and Andrey Myasnikov
Monitoring the state of the magmatic structures of Elbrus volcano based on observation of lithospheric deformations
- A211 EGU2011-2714
Virgílio Mendes, **José Madeira**, António Trota, António Brum da Silveira, Joaquim Pagarete, and Pedro Elósegui
GPS surveying in S. Jorge, Azores, reveal volcanic unrest?
- A212 EGU2011-2915
Marco Neri, Joel Ruch, Bornas Ma. Antonia Vidamo, Martinez-Villegas Mylene, Bariso Ericson, and Bignami Christian
Volcano-tectonic evolution of Mt. Kanlaon, Negros Island, Philippines
- A213 EGU2011-5509
Ingrid Fjeldskaar Løtveit, Agust Gudmundsson, and Willy Fjeldskaar
Mechanical and thermal effects of sill emplacement in layered rocks
- A214 EGU2011-5676
Joel Ruch, Adriano Nobile, Valerio Acocella, and Nobuo Geshi
Volcano collapse and pit crater formation using analogue models: an application to Myiakejima, Japan.
- A215 EGU2011-3211
Valerio Acocella, Giuseppe Solaro, Susi Pepe, Joel Ruch, Marco Neri, and Eugenio Sansosti
Anatomy of an unstable volcano from InSAR: multiple processes affecting flank instability at Mt. Etna, 1994-2008
- A216 EGU2011-6478
Amalia Bonanno, Vincenzo Vinciprova, Giuseppe Puglisi, and Giuseppe Nunnari
FE Modeling of the instable eastern flank of Mt. Etna volcano during the inter-eruptive period 2003 - 2004
- A217 EGU2011-6590
Francesco Guglielmino, Alessandro Bonforte, Giuseppe Puglisi, Christian Bignami, Salvatore Stramondo, Francesco Obrizzo, Urs Wegmüller, and Pierre Briole
The April 3, 2010 earthquake along the Pernicana fault (Mt. Etna - Italy): analysis of satellite and in situ ground deformation data integrated by the SISTEM approach
- A218 EGU2011-14059
Marco Aliotta, Andrea Cannata, Daniele Carbone, Giuseppe Di Grazia, Salvatore Gambino, Francesco Guglielmino, Placido Montalto, Domenico Patanè, and **Giuseppe Puglisi**
Geophysical effects of the lava fountain episodes at Mt. Etna: insights on the shallow plumbing system
- A219 EGU2011-11255
Giorgio De Guidi, **Salvatore Scudero**, and Stefano Gresta
Relationship between surface and deep structure at Mt. Etna volcano (Sicily)
- A220 EGU2011-11349
Christina Plattner, Falk Amelung, Scott Baker, Rob Govers, and Mike Poland
Modeling flank motion at Kilauea volcano (Hawai'i): Insights in the dynamic interaction between tectonic and magmatic driving forces for volcano deformation
- A221 EGU2011-7597
Fabien Albino, Virginie Pinel, and Freysteinn Sigmundsson
Influence of surface load variations on shallow magma storage zones: Application to Icelandic subglacial volcanoes
- A222 EGU2011-11504
Andreas Fichtner and Hrvoje Tkalčić
Insights into the kinematics of a volcanic caldera drop: Probabilistic finite-source inversion of the 1996 Bardarbunga, Iceland, earthquake
- A223 EGU2011-2088
Thomas R. Walter
Web-cam Strain Measurement at Mount St. Helens from 2004-2008
- A224 EGU2011-3205
Thomas Dewez, Clément Hibert, Anne Mangeney, Philippe Kowalski, Philippe Catherine, and Gilles Grandjean
Ground-based stereo-photogrammetric monitoring of the active crater of Piton de la Fournaise, La Réunion Island
- A225 EGU2011-553
Adriano Nobile, Joel Ruch, Valerio Acocella, Sven Borgstrom, Valeria Siniscalchi, Eugenio Sansosti, Andrea Manconi, and Yosuke Aoki
Deformation on Aso Caldera (SW Japan) detected through DInSAR
- A226 EGU2011-6439
Antonio Troiano, Maria Giulia Di Giuseppe, Zaccaria Petrillo, Claudia Troise, and **Giuseppe De Natale**
Ground deformation at calderas driven by fluid injection: modelling unrest episodes at Campi Flegrei (Italy)

- A227 EGU2011-426
Sébastien Leibrandt, Pierre-Yves Gillot, and Anthony Hildenbrand
 Emplacement of large volcanoclastic breccia volumes in relationship with the evolution of a central caldera: volcanic history of the Cantal massif (France)
- A228 EGU2011-7956
Muriel Gerbault
 Conditions for shear and tensile failure around an inflating circular magmatic chamber: internal overpressure and shear band geometries obtained from analytical and numerical elasto-plastic models
- A229 EGU2011-8541
Rodrigo del Potro, Joachim Gottsmann, Antonio Camacho, and Mayel Sunagua
 Deep structure beneath Uturuncu volcano in the central Andes: Insights from new density anomaly models
- A230 EGU2011-9772
Ricardo Ramalho, George Helffrich, Michael Cosca, Derek Vance, Dirk Hoffmann, and Daniela N. Schmidt
 Ocean Island Uplift, the Cape Verde Example
- A231 EGU2011-11713
Manoochehr Shirzaei, Thomas R. Walter, Hamid. R. Nankali, and Eoghan. P. Holohan
 Gravity-driven deformation of Damavand volcano detected through InSAR time series
- A232 EGU2011-11425
Pietro Tizzani, Andrea Manconi, Giovanni Zeni, Antonio Pepe, Mariarosaria Manzo, Antonio Camacho, José Fernández, Paolo Berardino, Francesco Casu, and Riccardo Lanari
 A unitary physical model for the long- and short-term deformation field revealed at Tenerife volcanic island

TS2.6 – Stress and strain patterns and mechanisms of micro-meso deformation in folded rocks – Orals

Convener: Olivier Lacombe | Co-Conveners: Stefano Tavani, Ruth Soto

Room: 27

Chairperson: EVANS/LACOMBE

- 08:30–08:45 EGU2011-1947
Marcel Frehner
 The neutral lines in buckle folds
- 08:45–09:00 EGU2011-10561
Marta Adamuszek, Marcin Dabrowski, and Daniel W. Schmid
 Folding of Nodular Layers - Insights from Field Observations and Numerical Modeling
- 09:00–09:15 EGU2011-2800
Mark Evans and Mark Fischer
 Changing fluid conditions during folding: Implications for deformation mechanisms
- 09:15–09:30 EGU2011-10074
Nicolas Beaudoin, Nicolas Bellahsen, Olivier Lacombe, and Laurent Emmanuel
 Fold-fracture relationships in a Laramide basement-cored fold, Rattlesnake Mountain Anticline, Wyoming
- 09:30–09:45 EGU2011-3667
 Khalid Amrouch, Nicolas Beaudoin, **Olivier Lacombe**, Nicolas Bellahsen, and Jean-Marc Daniel
 Evolution of paleostress magnitudes and pore fluid pressure during folding above a basement thrust: an integrated mechanical study at Sheep Mountain anticline (Wyoming, USA).
- 09:45–10:00 EGU2011-4766
Jean-Paul Callot, William Sassi, Khalid Amrouch, Mickael Barbier, Philippe Robion, Jean-Marc Daniel, Olivier Lacombe, Martin Guiton, Nicolas Bellahsen, and Jean-Luc Faure
 Constraints on deformation mechanisms during folding provided by rock physical properties: Case studies from Laramide uplifts (Wyoming, USA)

TS2.6 – Stress and strain patterns and mechanisms of micro-meso deformation in folded rocks – Posters

Convener: Olivier Lacombe | Co-Conveners: Stefano Tavani, Ruth Soto

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: TAVANI

- XL265 EGU2011-13669
Stefano Tavani, Jordi Bausa, Joana Mencos, and Josep Anton Muñoz
 The fracture pattern of the Sant Corneli oblique inversion anticline (Spanish Pyrenees).
- XL266 EGU2011-437
Eloi Carola, Anna Quintà, Stefano Tavani, and Josep Anton Muñoz
 Role of mesostructural inheritances in inversion-related fracturing. Example from the Mataporquera Anticline, Western Pyrenees (Spain).

- XL267 EGU2011-496
Cristina García-Lasanta, Belén Oliva-Urcia, Teresa Román-Berdiel, and Antonio Casas-Sainz
When does AMS develop and register strain in extensional sedimentary basins?
- XL268 EGU2011-774
Esther Izquierdo-Llavall, Antonio Casas-Sainz, and Inmaculada Gil-Peña
Fold geometry and foliation development in the western area of the Central Pyrenees
- XL269 EGU2011-5614
Mickael Barbier, **Jean-Paul Callot**, Jean-Marc Daniel, and Youri Hamon
The sedimento-diagenetic control on the multiscale fracturing of a carbonate reservoir, the Madison Formation (Sheep Mountain, Wyoming, USA)
- XL270 EGU2011-8237
Marco Snidero, Stefano Tavani, and J. Anton Muñoz
Sin-folding extensional deformation in the Anaran Anticline (Zagros, Iran).
- XL271 EGU2011-9274
Philippe Robion, Fabien Humbert, Dominique Frizon de Lamotte, Jean-Claude Ringenbach, and Stéphanie Leghay
Evolution of deformation through the Sub Pyrenean Zone in the Corbières fold-thrust belt inferred from structural analyses and from magnetic and acoustic fabrics investigations : implications on the pre-tectonic properties of the Eocene deposits.
- XL272 EGU2011-10809
William Sassi, Martin Guiton, Yves Leroy, Narjes Kallel, **Jean-Paul Callot**, Jean-Marc Daniel, Olivier Lerat, and Jean-Luc Faure
Constraints on mechanical modelling of folding provided by matrix deformation and fracture network analysis: The case of Split Mountain (Utah, USA)
- XL273 EGU2011-10836
Maria Gema Llorens, Paul D. Bons, Albert Griera, and Enrique Gomez-Rivas
Numerical simulation of layer folding in simple shear
- XL274 EGU2011-11107
Lionel Sonnette, Jérôme Gattacceca, Christophe Larroque, and Jean-François Stéphan
Paleomagnetism as a marker of synfolding rotation. Example of the dome de Barrôt (subalpine massif, SE France)
- XL275 EGU2011-11226
Nicolas Bellahsen, **Nicolas Beaudoin**, Olivier Lacombe, and Laurent Emmanuel
Kinematics of the arcuate periclinal termination of a basement-cored anticline: Structural and microstructural studies at Rattlesnake Mountain Anticline (Wyoming, USA)
- XL276 EGU2011-13254
Marta Adamuszek, Daniel W. Schmid, and Marcin Dabrowski
Fold Geometry Toolbox: Automated determination of fold shapes, strain, and material properties
- XL277 EGU2011-13778
Ruth Soto, Antonio M. Casas-Sainz, Cristina García-Lasanta, and Esther Izquierdo-Llavall
Flexural-slip mechanism in plunging folds. Example from N-S folds in the South Pyrenean thrust front, Central Pyrenees (Spain)
- XL278 EGU2011-13838
Frédéric Mouthereau and Philippe Yamato
Rheology of large-scale Zagros folding

TS3.1 – Deformation and strain localization from micro- to lithospheric scales: patterns, processes, microstructures and the role of fluids in nature and experiment – Orals

Convener: Florian Fusseis | Co-Conveners: Luca Menegon, Sergio Llana-Funez, Claudia Trepman, Sandy Cruden, Ulrich Riller, Christoph Schrank

Room: 27

Chairperson: n.n.

- 10:30–10:45 EGU2011-522
Phil Skemer
Microstructural evolution of peridotite during high temperature deformation
- 10:45–11:00 EGU2011-12141
Albert Griera, Mark W. Jessell, Ricardo Lebensohn, Lynn Evans, and Paul D. Bons
Lattice Preferred Orientation (LPO) evolution in dynamically recrystallizing olivine polycrystals: a numerical approach
- 11:00–11:15 EGU2011-6571
Rolf Bruijn, David Mainprice, Philip Benson, and Luigi Burlini
Fabric development during high temperature and pressure compaction of hot-pressed Rochester Shale

- 11:15–11:30 EGU2011-1773
Hugues Raimbourg, Toshihiro Kogure, and Tsuyoshi Toyoshima
 Crystal folding and recrystallization in naturally deformed orthopyroxene: insights from TEM imaging of subgrain/grain boundary development
- 11:30–11:45 EGU2011-2611
Mathieu Bourcier, Alexandre Dimanov, Eva Héripré, Michel Bornert, Wolfgang Ludwig, and Jean Raphanel
 Viscoplastic behavior of synthetic salt : In-situ SEM full field measurement, a micromechanical approach.
- 11:45–12:00 EGU2011-8305
Laurent Montesi
 Fabric development as the key to forming ductile shear zones and enabling plate tectonics

LUNCH BREAK

Chairperson: n.n.

- 13:30–13:45 EGU2011-13759
Andrew Putnis, Håkon Austrheim, Christine V. Putnis, and Janneke Brouwer
 Mineral-fluid interaction and possible mechanisms of reaction-induced weakening
- 13:45–14:00 EGU2011-4922
Holger Stunitz, Luca Menegon, Pritam Nasipuri, Petr Jerabek, Florian Fusseis, Erling Ravna, Kåre Kullerud, and Steffen Bergh
 Strength evolution of the lower crust - examples from Northern Norway
- 14:00–14:15 EGU2011-1092
Santanu Misra and Jean-Pierre Burg
 Large strain rheology of syn-tectonic melting and crystallizing metapelites
- 14:15–14:30 EGU2011-4096
Rüdiger Kilian, Renée Heilbronner, and Holger Stünitz
 Deformation of dry quartz in shear zones
- 14:30–14:45 EGU2011-1943
Guillaume Desbois, Janos L. Urai, Peter A. Kukla, Uwe Wollenberg, Fabián Pérez-Willard, Zsolt Radí, and Sandor Riholm
 Distribution of brine in grain boundaries during static recrystallization in wet, synthetic halite: insight from Broad Ion Beam sectioning and SEM observation at cryogenic temperature
- 14:45–15:00 EGU2011-6133
Antoine Quilichini, Luc Siebenaller, Christian Teyssier, and Torsten Vennemann
 Plumbing system at the brittle-ductile transition of a shear zone - insights from the Bitterroot detachment, MT, USA

Chairperson: Ulrich Riller, Florian Fusseis

- 15:30–15:45 EGU2011-5814
Aude Gébelin, Andreas Mulch, Christian Teyssier, Matthew Heizler, Torsten Vennemann, and Nicholas C.A. Seaton
 Quartz recrystallization and fluid flow during exhuming footwall rocks of the Northern Snake Range detachment, Nevada
- 15:45–16:00 EGU2011-4315
Alison Ord and Bruce Hobbs
 Localised Folding and Axial Plane Structures
- 16:00–16:15 EGU2011-5478
Christoph Schrank, Florian Fusseis, Ali Karrech, and Klaus Regenauer-Lieb
 Thermal elasticity promotes failure in the brittle-ductile crust
- 16:15–16:30 EGU2011-8979
Bernhard Grasemann, Cornelius Tschegg, and Marcin Dabrowski
 How boudinage triggers the localization of low-angle normal faults
- 16:30–16:45 EGU2011-5013
Iris Lenauer and Ulrich Riller
 Strain localization in mafic rocks: evidence from the Sudbury Igneous Complex, Canada
- 16:45–17:00 EGU2011-1499
Jean Braun, Frédéric Herman, and Geoffrey Batt
 Is there strain softening in the Earth's crust?

TS3.1 – Deformation and strain localization from micro- to lithospheric scales: patterns, processes, microstructures and the role of fluids in nature and experiment – Posters

Convener: Florian Füsseis | Co-Conveners: Luca Menegon, Sergio Llana-Funez, Claudia Trepmann, Sandy Cruden, Ulrich Riller, Christoph Schrank

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Sandy Cruden

- XL279 EGU2011-836
Marco Antonio López-Sánchez, Alberto Marcos, Francisco José Martínez, and **Sergio Llana-Funez**
Strain gradient recorded in the Penedo Gordo granite during extensional movement of crustal-scale Vivero Fault (NW Spain)
- XL280 EGU2011-924
Ayca Yurdakul and Bradford Hager
Delineation of Deformation Using Finite Element Modeling: A Case From Western Turkey
- XL281 EGU2011-1093
Santanu Misra and Jean-Pierre Burg
Evolution of kink-band microstructures and rheology during torsion deformation of muscovite
- XL282 EGU2011-1702
Ulrich Riller, Alexander Cruden, David Boutelier, and Christoph Schrank
Origin of sinuous deformation patterns in hot, wide orogens
- XL283 EGU2011-1705
Ulrich Riller, David Boutelier, Christoph Schrank, and Alexander Cruden
Role of kilometer-scale weak circular heterogeneities on upper crustal deformation patterns: evidence from scaled analogue modeling and the Sudbury Basin, Canada
- XL284 EGU2011-1731
Maartje Houben, Guillaume Desbois, and Janos Urai
A comparative study of fabrics and porosity in shaly and sandy facies of Opalinus Clay by BIB-SEM methods
- XL285 EGU2011-2301
Alexander Simakin
Different ways to portrait anisotropic mantle rheology.
- XL286 EGU2011-2317
Luca Menegon, Holger Stünitz, Pritam Nasipuri, Livia Nardini, and Renee Heilbronner
Strain localization in lower crustal shear zones due to granular flow of syndeformational reaction products
- XL287 EGU2011-2722
Johanna Nevitt, David Pollard, and Peter Lovely
Evolution of fault geometry and ductile fabrics under brittle-ductile conditions: an example from the Mount Abbot Quadrangle, Sierra Nevada, CA
- XL288 EGU2011-5028
Philippe Agard, Romain Augier, and Patrick Monié
Shear band formation and strain localization on a regional scale: evidence from anisotropic rocks below a major detachment (Betic Cordilleras, Spain)
- XL289 EGU2011-6269
Pinar Ozfirat, Mark James Caddick, and Alan Bruce Thompson
The influence of textural inheritance and general kinetics in the development of porphyroblasts during metamorphism
- XL290 EGU2011-6309
Marianne Negrini, Holger Stünitz, and Luca Menegon
Experimental deformation, partial melting, and compositional changes in perthitic K-feldspar at high pressure and temperature
- XL291 EGU2011-6518
Rolf Bruijn, Bjarne Almqvist, Philip Benson, and Ann Hirt
Magnetic susceptibility in experimentally compacted Rochester Shale powder
- XL292 EGU2011-7408
Chiara Prete, Richard Spiess, and Annalisa Tunesi
Reaction softening of the deeper crust: an example from Baja California (Mexico)
- XL293 EGU2011-7441
Wentian Liang, Guowei Zhang, Yong Bai, and Kurt Stüwe
Emplacement mechanism of Mishuling Pluton: Implications for the Late Indosinian Tectonic Evolution of Qinling Orogen
- XL294 EGU2011-8110
Nicolas Brantut, Emmanuel David, Eva Heripre, Alexandre Schubnel, and Robert W Zimmerman
Elastic wave velocity and acoustic emission monitoring during Gypsum dehydration under triaxial stress conditions
- XL295 EGU2011-8961
Bernhard Grasemann and Marcin Dabrowski
Pinch and swell boudins during high-strain simple shear

- XL296 EGU2011-9213
Sabrina Diebold, Hans De Bresser, William B. Durham, and Laura Stern
Flow of pure water ice: Grain growth and deformation
- XL297 EGU2011-9396
Alexander Cruden, John Grocott, and Carlos Arevalo
Interplay between slab dynamics and upper plate structure for localizing magmatism in continental arcs
- XL298 EGU2011-9430
Renee Heilbronner, Anja Thust, and Holger Stunitz
Mapping water and misorientations in experimentally deformed quartz
- XL299 EGU2011-9487
Jacek Szczepanski, Marcin D?browski, Olav Gundersen, and Robert Anczkiewicz
A fabric study of the Jeg?owa date-quartzite (quartz metaconglomerate)
- XL300 EGU2011-9686
Marcel Thielmann and Boris J. P. Kaus
Shear heating and subduction initiation
- XL301 EGU2011-9972
Julia Bial and **Claudia Trepmann**
From brittle and crystal-plastic deformation to dissolution-precipitation creep - the microfabric development in HP-metamorphic serpentized mantle peridotites
- XL302 EGU2011-10763
Giorgio Pennacchioni, Eleonora Zucchi, Silvia Favaro, Bernd Leiss, and Jens Walter
Development of crystallographic preferred orientation in natural quartz veins during post-magmatic cooling and deformation of granitoid plutons: comparison between Adamello (Avio intrusion; Southern Alps, Italy) and Sierra Nevada (Lake Edison intrusion; C
- XL303 EGU2011-10886
Vaneeda Allken, Ritske Huismans, and **Cedric Thieulot**
Three-dimensional numerical modelling of crustal extension
- XL304 EGU2011-11095
Marcin Dabrowski and Bernhard Grasemann
Numerical modelling of domino boudinage under high simple shear strain
- XL305 EGU2011-11887
Joyce Schmatz and Janos L. Urai
The interaction of migrating grain boundaries and fluid inclusions in naturally deformed quartz
- XL306 EGU2011-12281
Laurent Ciancaleoni
Late Oligocene and Neogene kinematics of convergence at plate boundaries in the Eastern Central Alps : insights from shear zone patterns in metagranites from the European and Adriatic plates in the vicinity of the Insubric Line
- XL307 EGU2011-12771
Katharina Methner, Andreas Mulch, Aude G?belin, Christian Teyssier, Micheal Wells, and Mike Cosca
Eocene extension and meteoric fluid flow in quartzite mylonite of the Raft River metamorphic core complex (USA)
- XL308 EGU2011-13153
Flora Andres-Araujo, **Angel Rodr?guez-Santana**, Anaqua Gonzalez, Claudio Moreno, Francisco J. P?rez-Torrado, Francisco Santana, and Tim A. Minshall
Sensitivity analysis of a model of lithospheric flexure: A case study of the flexure effect of Tenerife island on Gran Canaria island in the last 4 ma.
- XL309 EGU2011-13351
Jens Walter, Bernd Leiss, Giorgio Pennacchioni, and Christian Randau
Quantitative Neutron and X-ray texture analysis of Quartz mylonites - a comparative study
- XL310 EGU2011-13403
Jens Walter, Andreas Houben, Werner Schweika, Michael Stipp, Klaus Ullemeyer, Helmut Klein, Bernd Leiss, Bent T. Hansen, and Werner F. Kuhs
POWTEX Diffractometer at FRM II - New Perspectives in Geoscientific Neutron Diffraction

TS4.1/G3.4/GMPV27/SM2.10 – Crustal faulting and deformation processes observed by interferometric synthetic aperture radar (InSAR) (co-organized) – Posters

Convener: Manoochehr Shirzaei | Co-Conveners: Thomas R. Walter, Riccardo Lanari

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Shirzaei/Walter/Lanari

- XL311 EGU2011-5976
Simone Atzori, Roberto Devoti, and Stefano Salvi
A new algorithm to correct DInSAR maps with GPS data

- XL312 EGU2011-3554
Sergey Samsonov, Kristy Tiampo, Pablo Gonzalez, Jose Fernandez, and Nicolas d'Oreye
 Processing methodology for calculation of ground deformation rates along Hayward fault, northern California, from RADARSAT-2 synthetic aperture radar images acquired during 2008-2011
- XL313 EGU2011-9070
Zahra Mousavi, Erwan Pathier, Andrea Walpersdorf, Isabelle Manighetti, Mathilde Vergnolle, Farokh Tavakoli, and Hamidreza Nankali
 Investigation of interseismic deformation of active faults in eastern Iran: contribution of Spaceborn radar Interferometry
- XL314 EGU2011-6982
Giuseppe Pezzo, Cristiano Tolomei, Simone Atzori, Yassaman Farbod, Esmaeil Shabanian, Stefano Salvi, Olivier Bellier, and Claudio Faccenna
 Interseismic strain accumulation on the Western Doruneh fault, Northern Iran, by multitemporal SBAS - DInSAR technique
- XL315 EGU2011-282
Asli Dogru, Haluk Ozener, Bulent Turgut, and Asli Sabuncu
 Investigation of Crustal Deformation in Eastern Turkey Using InSAR
- XL316 EGU2011-2242
Hannes Bathke and Thomas R. Walter
 Volcano and earthquake deformation at Ararat and Tendurek, Eastern Turkey, shown by InSAR time series
- XL317 EGU2011-11243
 Eugenio Sansosti, Giovanni Zeni, Antonio Pepe, Giuseppe Solaro, Nicolas d'Oreye, Christelle Wauthier, Francois Kervyn, Sergey Samsonov, José Fernández, and **Pietro Tizzani**
 Analysis of tectonic and magmatic activity at Virunga volcanic Province (Congo) revealed by SBAS-DInSAR analysis
- XL318 EGU2011-13711
Xiaoying Cong, Michael Eineder, Stefan Gernhardt, and Richard Bamler
 Detection of the Volcanic Deformation with Multi-Stack Persistent Scatterer Interferometry using TerraSAR-X Data
- XL319 EGU2011-3568
Sergey Samsonov, John Beavan, Pablo Gonzalez, Kristy Tiampo, and Jose Fernandez
 Ground deformation in the Taupo Volcanic Zone, New Zealand, observed by ALOS PALSAR interferometry
- XL320 EGU2011-5177
Jiun-Yee Yen and Chung-Pai Chang
 Preliminary investigation of surface deformation in the mountainous and vegetated regions of central Taiwan using Persistent Scatterer SAR Interferometry
- XL321 EGU2011-5602
Kuan-Chuan Lin, Jyr-Ching Hu, Johann Champenois, Tzay-Chyn Shin, Benoit Deffontaines, and Erwan Pathier
 Modeling the Crustal deformation from Continuous GPS, leveling and PS-InSAR in eastern Taiwan
- XL322 EGU2011-8106
Johann Champenois, Bénédicte Fruneau, Erwan Pathier, Kuan-Chuan Lin, and Jyr-Ching Hu
 Monitoring of the Longitudinal Valley Fault (Eastern Taiwan) using PS-InSAR method with ALOS data
- XL323 EGU2011-5824
Chih-Heng Lu, Chung-Pai Chang, Jiun-Yee Yen, Yi-An Chen, and Wei-Chia Hung
 Monitoring seasonal and long-term surface displacement of Choushui River Fluvial Plan in the central Taiwan Using PSI and DInSAR
- XL324 EGU2011-3663
Yang Liu, Caijun Xu, Zhenhong Li, and Yangmao Wen
 Interseismic Slip Rate of the Garze-Yushu Fault Belt in the Tibetan Plateau from C-band InSAR observations between 2003 and 2010
- XL325 EGU2011-7017
Yousuke Miyagi and Taku Ozawa
 Two Solomon Islands Earthquakes in 2007 (M8.1), 2010 (M7.1), and Seismic Gap along the Subduction Zone, Revealed by ALOS/PALSAR
- XL326 EGU2011-7497
Pablo Euillades, Leonardo Euillades, María Laura Velez, Sebastián Balbarani, and Alberto Caselli
 Long-Term Crustal Deformation Monitoring in South America by DinSAR Techniques: a Study of Feasibility
- XL327 EGU2011-9300
Henriette Sudhaus, Frank Krüger, and Thomas R. Walter
 Source model resolution of the 2010 Haiti earthquake - What can we learn by combining geodetic, seismologic and geologic data?
- XL328 EGU2011-9597
Tomonori Deguchi, Yoshihiro Kinugasa, and Katsumi Kurita
 Monitoring of Land Deformation around Active Fault in the Metro Manila, the Philippines

- XL329 EGU2011-12955
Manuela Bonano, Fabiana Calò, Francesco Casu, Riccardo Lanari, Michele Manunta, Mariarosaria Manzo, and Antonio Pepe
 A two-scale analysis of surface deformation affecting the L'Aquila (Italy) area performed through the advanced SBAS-DInSAR technique
- XL330 EGU2011-13260
 John Beavan, **Sergey Samsonov**, and Mahdi Motagh
 PRELIMINARY SOURCE MODEL FOR Mw 7.1 DARFIELD, NEW ZEALAND, EARTHQUAKE FROM GPS AND INTERFEROMETRIC SATELLITE RADAR OBSERVATIONS
- XL331 EGU2011-3037
Zhenhong Li, William Hammond, Geoffrey Blewitt, Corné Kreemer, and Hans-Peter Plag
 InSAR and GPS time series analysis: Crustal deformation of the Southern Walker Lane, western Great Basin, United States
- XL332 EGU2011-13750
Kanika Goel, Nico Adam, and Christian Minet
 Ground deformation monitoring of Gardanne coal mine (France) exploiting eleven years of ERS-SAR data
- XL333 EGU2011-7954
Alberto Refice, Fabio Bovenga, Guido Pasquariello, Domenico Denora, Maria Dolores Fidelibus, and Giuseppe Spilotro
 Bulging of the salt dome of Lesina Marina (Gargano, Southern Italy) revealed by DInSAR techniques
- XL334 EGU2011-9257
Andreas Schenk and Malte Westerhaus
 Integration of displacement observations from InSAR and leveling to obtain horizontal displacements associated with surface uplift in the City of Staufien (Germany)

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 Borch, 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 Goleadowski, Søren Bom Nielsen, and Ole Rønne Clausen
 Norway and adjacent sedimentary basins during Cenozoic times - sediment fluxes, accumulation rates and mass balance

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

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

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Bernhard Fügenschuh, Nicolae Panin

- XL335 EGU2011-13766
Liviu Matenco, Paul Andriessen, Bernhard Fügenschuh, Lothar Schrott and the Source Sink Team
 Source to Sink systems: Quantification of mass transfer from mountain ranges to active sedimentary basins in the Danube basin system

- XL336 EGU2011-11006
Mehdi Pasha Karami, Paul Meijer, Anna von der Heydt, Arjan de Leeuw, and Rinus Wortel
 Circulation and water properties of the Miocene Mediterranean Sea and Paratethys before and after closure of the Tethys Seaway: a regional ocean model study
- XL337 EGU2011-6831
Nicolae Panin and How Kin Wong
 Sedimentation processes and depocentres of the Danube - Black Sea system
- XL338 EGU2011-5822
Ioan Munteanu, Liviu Matenco, Corneliu Dinu, and Sierd Cloetingh
 The Miocene-Quaternary evolution of NW part of Black Sea Basin and connection with Dacian Basin
- XL339 EGU2011-5780
Dorina Tambrea, Corneliu Dinu, and Ioan Munteanu
 Structural characteristics of Paleogene deposits, in central Romanian Black Sea offshore
- XL340 EGU2011-5861
Alina Floroiu, Marius Stoica, Ioan Munteanu, and Corneliu Dinu
 Stratigraphical and paleontological data from Upper Miocene-Pliocene sediments, Romanian Black Sea shelf
- XL341 EGU2011-7395
 Michal Kováč, **Rastislav Synak**, Bohuslava Sopková, and Jozef Minár
 Upper Miocene and Pliocene history of the northern Danube Basin
- XL342 EGU2011-11146
Juraj Franc, Jan Šafanda, Vladimír Čermák, Oldřich Krejčí, and Paul Andriessen
 Heat flow pattern and thermal history of the West Carpathian-Pannonian basins in respect to the uplift and erosion of the adjacent fold-and-thrust belts
- XL343 EGU2011-8367
Judit Petrovski, Balázs Székely, and Gábor Timár
 The classification of multiple window-size based sinuosity spectrum - a new evaluation method in river sinuosity calculation
- XL344 EGU2011-3513
Uros Stojadinovic, Liviu Matenco, Paul Andriessen, Marinko Toljic, and Jurgen Foeken
 From Mountain Building to Orogenic Collapse: Interferences Between Dinaridic and Carpathian Orogenic Systems
- XL345 EGU2011-12861
Martin Reiser, Bernhard Fügenschuh, and Ralf Schuster
 The tectonic evolution of the Biharia nappe system documented by structural and thermochronological data. Apuseni Mountains, Romania.
- XL346 EGU2011-9947
Wolfgang Reiter, Simon Elfert, and Cornelia Spiegel
 Plio-Pleistocene denudation history of the Central European Alps revealed through detrital thermochronology
- XL347 EGU2011-369
Vivi Kathrine Pedersen, Søren Bom Nielsen, and Kerry Gallagher
 Post-orogenic evolution of the Northeast Greenland Caledonides

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

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 Negro

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

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, Abera 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, Abera 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 Sehr, 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 Trivić, and Nevenka Žerić

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 Gregorič, 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 Trivić, 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 Janak
 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

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 Matrullo, 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 PIREs 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

Friday, 08 April

GI-6 – Civil Engineering Applications of Ground Penetrating Radar (co-listed) – Orals

Convener: Andrea Benedetto | Co-Conveners: Lara Pajewski, Timo Saarenketo

Room: 42

Chairperson: Andrea Benedetto and Lara Pajewski

- 13:30–13:45 EGU2011-14049
Christina Plati and **Andreas Loizos**
Ground Penetrating Radar as a powerful tool for use in pavement evaluation and overlay design
- 13:45–14:00 EGU2011-3102
Janne Poikajärvi, Anita Narbro, Johan Ullberg, and Kari Peisa
Ground Penetrating Radar application in planning structural evaluation of roads - Nordic actions
- 14:00–14:15 EGU2011-14061
André Costa, Gomes Correia, Paulo Fonseca, and Paulo Pereira
Moisture map of pavement by GPR. An informative case study.
- 14:15–14:30 EGU2011-14149
Lech Krysiński and Jacek Sudyka
Application of an impulse ground penetrating radar in assessment of the interlayer connection condition of the bituminous pavement
- 14:30–14:45 EGU2011-10151
Guido Manacorda
Detecting bridge deck defects with high resolution ground penetrating radar
- 14:45–15:00 EGU2011-6151
Nikos Economou, Antonis Vafidis, Hamdan Hamdan, George Kritikakis, Nikos Andronikidis, and Kleisthenis Dimitriadis
Time varying deconvolution of GPR data in civil engineering

GI-6 – Civil Engineering Applications of Ground Penetrating Radar (co-listed) – Posters

Convener: Andrea Benedetto | Co-Conveners: Lara Pajewski, Timo Saarenketo

Hall A | Display Time 08:00–17:00

Author in Attendance: 15:30–17:00

Chairperson: Lech Krysiński and Lara Pajewski

- A57 EGU2011-7759
Andrea Benedetto
Applications of GPR to road pavement: an overview
- A58 EGU2011-2090
Lara Pajewski, Fabrizio Frezza, Cristina Ponti, and Giuseppe Schettini
CWA Characterization of Buried Infrastructures
- A59 EGU2011-13908
Timo Saarenketo and Pekka Majjala
The Benefit of Integrated Analysis of GPR Data Together with Other Road Survey Data
- A60 EGU2011-12357
Vincent Utsi and Erica Utsi
Use of High Frequency GPR for the detection of construction faults in roads and built structures
- A61 EGU2011-3626
Selma Kadioglu and Emin U. Ulugergerli
Definition of Buried Karstic Cavities with a New 3D GPR Imaging Technique in Akkopru Dam Reservoir Area in Dalaman, Mugla-Turkey
- A62 EGU2011-1618
Jorge Luis Porsani and Yang Boo Ruy
GPR study for subway tunnel construction in São Paulo city, Brazil
- A63 EGU2011-4901
thibault retornaz, jean-michel friedt, sebastien alzuaga, thomas baron, gilles martin, thierry laroche, sylvain ballandras, madeleine griselin, and jean-pierre simonnet
Piezoelectric radiofrequency transducers as passive buried sensors
- A64 EGU2011-7864
Célestin Twizere and Fabio Tosti
Potentiality of GPR for evaluation of clay content in soils
- A65 EGU2011-2093
Simone Meschino, Lara Pajewski, and Giuseppe Schettini
Detection of a Buried Dielectric Object by Means of a Sub-Array Processing Technique

- A66 EGU2011-7057
Andrea Benedetto and Francesco Benedetto
 Super resolution signal processing of GPR spectra for pavement engineering applications
- A67 EGU2011-7260
 Ilaria Catapano, Rosario Di Napoli, **Francesco Soldovieri**, and Lorenzo Crocco
 Detection and characterization of buried layers from holographic GPR data
- A68 EGU2011-14054
Matteo Pastorino, Claudio Estatico, and Andrea Randazzo
 A novel regularization scheme for electromagnetic inverse problems

TS1.1 – Open session: Tectonics and Structural Geology – Orals

Convener: Fabrizio Storti | Co-Conveners: Claudio Rosenberg, Dominique Chardon, Andreas Läufer, Christopher L. Andronikos, 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 Läufer 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 Esestime, 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 – 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 Zeitlhofer, 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
Soil degassing surveys as a tool to identify hidden faults in volcanic areas: preliminary results at the Ribeira Grande graben (Fogo Volcano, S. Miguel Island, Azores)
- XL221 EGU2011-6358
Jorge Gallastegui, **Gabriela Fernández-Viejo**, and Carlos López-Fernández
Marcas Project: study of the Mesozoic extension and alpine compression in the central part of the Cantabrian platform (North-Iberian Margin)
- XL222 EGU2011-6993
Michael Zerlauth, Hannah Pomella, Marcel Schulz, Silvia Aichholzer, Hugo Ortner, and Bernhard Fügenschuh
Balanced cross-sections in the boundary area between the western and eastern Alps
- XL223 EGU2011-10528
Ralf Freitag, Christoph Gaedicke, Nikolay Tsukanov, Udo Barckhausen, Dieter Franke, Ingo Heyde, Stefan Ladage, Rüdiger Lutz, and Michael Schnabel
The Krusenstern Fault, NW Pacific: A Reactivated Cretaceous Transform Fault?
- XL224 EGU2011-10883
Kenn-Ming Yang, Ruey-Juin Rau, Shih-Tsann Huang, Jong-Chang Wu, Hsin-Hsiu Ting, and Wen-Wei Mei
The Roles of Pre-existing Normal Faults in Recent Tectonics of Western Taiwan
- XL225 EGU2011-11176
I-Wen Cheng, Kenn-Ming Yang, Yi-Ru Chen, Jong-Chang Wu, and Jar-Ben Wang
Tectonic Subsidence Model in Distal Part of Foreland Basin in Southwestern Taiwan
- XL226 EGU2011-11830
Po-luan Chuang, Kenn-Ming Yang, Hsin-Hsu Ting, and Jar-Ben Wang
3-D geometry analysis of a fault-related structure in frontal part of fault-and-thrust belt, NW Taiwan

- XL227 EGU2011-13016
Spyridon Lekkas, Emmanuel Skourtsos, **Konstantinos Soukis**, Haralambos Kranis, Stylianos Lozios, Apostolos Alexopoulos, and Petros Koutsovitis
Late Miocene detachment faulting and crustal extension in SE Attica (Greece).
- XL228 EGU2011-860
Pinar Gunes, Jeremy Hall, Gunay Cifci, Ali E. Aksu, and Cenk Yaltirak
Miocene to Recent Tectonic Evolution of the Florence Rise, Eastern Mediterranean Sea
- XL229 EGU2011-7373
Steffi Burchardt, Hemin Koyi, and Harro Schmeling
Anhydrite blocks sinking in vertically-layered Newtonian salt structures
- XL230 EGU2011-7465
Jorge Pamplona and Benedito Rodrigues
Fold boudins: what is that?
- XL231 EGU2011-13588
Andy Bobyarchick
Vorticity in Grenville Basement Massifs, Southern Appalachian Mountains
- XL232 EGU2011-2300
Richard Law, Donald Stahr, Bernhard Grasemann, and Talat Ahmad
Deformation temperatures and flow vorticities near the base of the Greater Himalayan Crystalline Sequence, Sutlej Valley and Shimla Klippe, NW India

SM1.1/G3.9/TS1.2 – Open Session on Seismology (including Beno Gutenberg Medal Lecture) (co-organized) – Posters

Convener: Ramon Carbonell | Co-Conveners: CharLotte Krawczyk

Halls X/Y | Display Time 08:00–17:00

Author in Attendance: 10:30–12:00

Chairperson: Ramon Carbonell

- XY475 EGU2011-1843
Young-Fo Chang, Chih-Hsiung Chang, Li-Chung Sun, and Chia-Lung Chung
Physical modeling studying the travel times and reflection points of SH-waves reflected from transversely isotropic media with a tilted symmetry axis
- XY476 EGU2011-1850
Woo-Dong Lee, Bong-Gon Jo, Sat-Byul Jung, Min-Seok Ko, and Seok-Tae Lee
Effects of typhoons on microseisms observed from the short period array records
- XY477 EGU2011-3076
Jaromir Jansky, Oldrich Novotny, Jiri Zahradnik, and Efthimios Sokos
Problematic earthquake location from P-arrival times jointly used at near and distant stations
- XY478 EGU2011-3215
Bo Holm Jacobsen and Lasse Svenningsen
Robust receiver function interpretation by comparative processing and imaging
- XY479 EGU2011-3973
Kim Bak Olsen and Bo Holm Jacobsen
Spatial Variability of Ground Motion Amplification From Low-Velocity Sediments Including Fractal Inhomogeneities with special reference to the Southern California Basins
- XY480 EGU2011-9048
Ortensia Amoroso, Nils Maercklin, and Aldo Zollo
S-wave identification by polarization filtering and waveform coherence analysis
- XY481 EGU2011-4135
Chih-Hsiung Chang, Young-Fo Chang, and Po-Yen Tseng
Surveying a dome structure from a transversely isotropic medium
- XY482 EGU2011-4337
Wen-che Yu, Teh-Ru Alex Song, and Paul Silver
Temporal velocity changes in the deep crust driven by aseismic afterslip of the great Sumatra earthquakes
- XY483 EGU2011-4396
Laetitia Mozziconacci, Bertrand Delouis, Nicole Béthoux, and Bor-Shouh Huang
Coseismic slip distribution of the second main event (Mw 6.0) of the April 2006 Taitung crisis (SE Taiwan)
- XY484 EGU2011-4688
Aurelie Guilhem and Douglas S. Dreger
Rapid detection of large subduction zone earthquakes using quasi-finite-source Green's functions in moment tensor inversion
- XY485 EGU2011-5437
Teruyuki Kato and Takuji Ebinuma
Dynamic Characteristics of High-Rate GPS Observations for Seismology

- XY486 EGU2011-5910
Shiann-Jong Lee, Hui-Wen Cheng, and Wen-Tzong Liang
Real-time computational seismology earthquake report: An example from Taiwan
- XY487 EGU2011-5985
Sebastiano D'Amico, Domenico Caccamo, Fabio M. Barbieri, Caterina Lagana, and Francesco Parrillo
Time clustering of seismicity: case of the Chile-Peru seismic sequences
- XY488 EGU2011-6119
Bogdan Grecu, Cristian Neagoe, Dragos Tataru, Constantin Ionescu, and Alexandru Marmureanu
Seismic Noise Characteristics at the Romanian Broadband seismic stations
- XY489 EGU2011-6202
Hana ?ermáková, Jan Michálek, Josef Horálek, Gunnar B. Guðmundsson, Steinunn S. Jakobsdóttir, and Hjörleifur Sveinbjörnsson
Earthquake swarms - comparison between West Bohemia and southwest Iceland
- XY490 EGU2011-6283
Dragos Tataru, Bogdan Grecu, Victor Raileanu, Graham Stuart, and Gregory Houseman
Crustal structure of the Transylvanian Basin and South Carpathian mountains, Romania, from receiver function analysis
- XY491 EGU2011-6485
Salvatore Alparone, Salvatore D'Amico, Vincenza Maiolino, and **Andrea Ursino**
Mt. Etna seismicity (1988-2010): evidence of the space-time evolution of seismic activity
- XY492 EGU2011-7090
Maxime Godano, Jean Charléty, Françoise Courboux, Anne Deschamps, Perrine Deshayes, Gabriele Ferretti, Christophe Larroque, Thomas Romero, Jerome Salichon, and Daniele Spallarossa
The October-November 2010 seismic crisis near Sampeyre (Piemonte Region, Italian Alps) - Preliminary results.
- XY493 EGU2011-7624
Maxime Godano, Sophie Lambotte, Anne Deschamps, Hélène Lyon-Caen, and Pascal Bernard
Analysis of the earthquakes swarms during the 2001-2009 period in the western part of the Corinth rift (Greece)
- XY494 EGU2011-7794
Andreas Hoechner and Stephan V. Sobolev
Deriving Earthquake Rupture Timing from GPS observations
- XY495 EGU2011-9582
Martoni Alves Bomfim Santos and **Wilson Mouzer Figueiró**
Seismological Modeling of Traveltime Curves with Global Velocity Field Parameterized by Trigonometric Series
- XY496 EGU2011-10997
Kasper D. Fischer and the Egelados Working Group Team
Static displacements and stress changes of the Kythira 2006 Earthquake
- XY497 EGU2011-11636
Giada Adelfio, Marcello Chiodi, Antonino D'Alessandro, and Dario Luzio
GLM-based automatic picking of waveforms
- XY498 EGU2011-11673
Ruben Luis, Rita Marques, Rogério Sousa, Ana Medeiros, Nuno Cabral, Rita Carmo, Teresa Ferreira, João Gaspar, and Nicolau Wallenstein
Recent Seismic Activity in the Mid-Atlantic Ridge at the Azores Region
- XY499 EGU2011-11806
Alice Gabriel, Jean-Paul Ampuero, Luis A. Dalguer, and P. Martin Mai
Macroscopic Source Properties From Dynamic Rupture Simulations With Off-Fault Plasticity
- XY500 EGU2011-11952
Simona Colombelli, Antonio Emolo, and Aldo Zollo
Peak-Duration magnitude for the Irpinia Seismic Network, Southern Italy
- XY501 EGU2011-1683
Lucian Besutiu
New considerations on the intermediate depth seismicity of the Vrancea zone: the unstable triple-junction
- XY502 EGU2011-2504
Yan Jia and Wolfgang Lenhardt
Peak Ground Acceleration and Station Site Effect in Austria
- XY503 EGU2011-6559
Lukasz Rudzinski and Wojciech Debski
Extending the Double Difference location technique for mining applications: Numerical study.
- XY504 EGU2011-2743
Jiri Vackar and Jiri Zahradnik
Fast long-period waves in near-regional records of a shallow earthquake

XY505 EGU2011-4642

Iktri Madrinovella, Sri Widiyantoro, and Irwan Meilano

Hypocenter relocation of the September 30th 2009 Padang Earthquake using Hypo-DD

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

HS8.2.5/TS2.7 – Multidisciplinary Approaches to Fault Zone Hydrogeology (co-organized) – Orals

Convener: Victor Bense | Co-Conveners: Jerry Fairley, Ulrike Exner, Sian Loveless, Zoe Shipton

Room: 34

Chairperson: Jerry Fairley, Victor Bense, Sian Loveless, Ulrike Exner, Zoe Shipton

13:30–13:45 EGU2011-4724

Mark Person

Fault Controlled Hydrothermal Systems of the Great Basin, Nevada

13:45–14:00 EGU2011-3063

Brigitta Czauner and Judit Mádl-Sz?nyi

Integrative characterization of faults' hydraulic role in low-permeability environments

- 14:00–14:15 EGU2011-155
Sian Loveless, Victor Bense, and Jenni Turner
 Faults as preferential flow paths in delta and offshore sediments, Gulf of Corinth, Greece.
- 14:15–14:30 EGU2011-2682
Rebecca Lunn, Stella Pytharouli, Zoe Shipton, James Kirkpatrick, and Aderson Farias do Nascimento
 Microseismicity illuminates open fractures in the shallow crust
- 14:30–14:45 EGU2011-5219
Chung-Hsiang Mu, Yves Guglielmi, Frederic Cappa, Jia-Jyun Dong, Jian-Cheng Lee, and Jacques Angelier
 Quantifying the hydraulic properties variations related to fault propagation into thick alluvial materials overlying an active deformation zone: The Chihshang fault at Chinyuan (Taiwan)
- 14:45–15:00 EGU2011-10193
Maarten Voorn, Alexander Rath, and Ulrike Exner
 3D micro-imaging of fracture networks in a reservoir dolomite using micro-Computed Tomography

HS8.2.5/TS2.7 – Multidisciplinary Approaches to Fault Zone Hydrogeology (co-organized) – Posters

Convener: Victor Bense | Co-Conveners: Jerry Fairley, Ulrike Exner, Sian Loveless, Zoe Shipton

Hall A | Display Time 08:00–17:00

Author in Attendance: 15:30–17:00

Chairperson: n.n.

- A286 EGU2011-509
Johanna Scheidegger, Victor Bense, and Stephen Grasby
 Modelling of Supraglacial Spring Evolution Under Influences of Climate Change
- A287 EGU2011-934
Alistair McCay, Rebecca Lunn, and Zoe Shipton
 The influence of sub-seismic faults and small scale permeable features on cap rock integrity.
- A288 EGU2011-1456
Jasmin Kaiser, Ulrike Exner, Susanne Gier, and Wolfgang Hujer
 Preferred cementation by iron rich dolomite along deformation bands in a hydrocarbon reservoir, Matzen, Austria
- A289 EGU2011-1926
 Fabrizio Storti, **Fabrizio Balsamo**, and Darren R. Gröcke
 Calcite concretions reveal the influence of faulting on a groundwater flow pattern in loose sands
- A290 EGU2011-2281
Alexander Rath, Ulrike Exner, and Marcin Dabrowski
 Calculating permeability from μ CT 3D porosity datasets of deformation bands in a carbonate grainstone
- A291 EGU2011-3984
Özlem Öztekin Okan
 The Hydrogeochemistry of Mineral Waters Located At The Palu Segment Of Eastern Anatolian Fault Zone, Elazig, Eastern Anatolia, Turkey
- A292 EGU2011-4641
Masakazu Niwa, Hideki Kurosawa, Koji Shimada, Tsuneari Ishimaru, and Hideki Kosaka
 Hydrogeological architecture of a fault zone reconstructed through an outcrop survey: mesoscopic and microscopic observations, multipoint hydrogen gas measurements, particle size distribution analyses and chemical analyses of fault rocks
- A293 EGU2011-4728
Julio Fierro-Morales
 Tectonics of Sabana de Bogotá and its relationship with hydrogeology
- A294 EGU2011-5724
Christian Mohr, Anton Huber, Axel Bronstert, and Andrés Iroumé
 Hydrological Response to the Earthquake of 27 February 2010 in small Upland Catchments in the Chilean Coastal Range, Bío-Bío Region
- A295 EGU2011-5783
Emanuelle Frery, Charles Aubourg, Jean-Pierre Gratier, Nadine Ellouz-Zimmerman, and Rudy Swennen
 Paleomagnetic Record of Fault activity - Natural analogue in Utah (USA)
- A296 EGU2011-6650
Stefan Moser, Jürgen Schön, and Gerfried Winkler
 Fault zones and fault domain characterisation along boreholes - using geophysical well logging and packer tests
- A297 EGU2011-10625
Grainne El Mountassir, Heather Moir, and Rebecca J. Lunn
 Microbially induced carbonate precipitation, fracture sealing?

- A298 EGU2011-6843
Michaela Koch, Alexandre Schubnel, Steffen Birk, and Gerfried Winkler
 Architecture and hydraulic properties of a brittle fault core zone - example from the Semmering area (Austria)
- A299 EGU2011-7690
Yannick Kremer, Damien Hay, Kieran Connolly, Zoe Shipton, Rebecca Lunn, and Christopher Wibberley
 Detailed models of fluid flow through the Moab fault: the importance of understanding slip surface permeability
- A300 EGU2011-7938
Victor Bense, Tom Gleeson, and Sian Loveless
 A multidisciplinary perspective on fault zone hydrogeology
- A301 EGU2011-8372
Joachim Place, Edouard Le Garzic, Yves Géraud, Marc Diraison, and Judith Sausse
 Structural analysis of fluid flow paths in fractured granite

TS4.1/G3.4/GMPV27/SM2.10 – Crustal faulting and deformation processes observed by interferometric synthetic aperture radar (InSAR) (co-organized) – Orals

Convener: Manoochehr Shirzaei | Co-Conveners: Thomas R. Walter, Riccardo Lanari

Room: 27

Chairperson: Shirzaei/Lanari

- 08:30–08:45 EGU2011-8777
Sara Del Conte, Andrea Tamburini, Alfio Fumagalli, and Fabrizio Novali
 Active fault analysis and tectonic setting assessment with SqueeSAR
- 08:45–09:00 EGU2011-3997
Eugenio Sansosti
 Deformation time series via space-borne radar interferometry: a second generation tool for Earth's surface displacement analysis
- 09:00–09:15 EGU2011-4582
Yukitoshi Fukahata, Luis Rivera, and Tim Wright
 Estimation of correlation length of InSAR data error based on ABIC: Importance of modeling error in seismic source inversion
- 09:15–09:30 EGU2011-9704
Sigurjon Jonsson and Zhong Lu
 Estimating Tensile Rock Strength from InSAR Observations
- 09:30–09:45 EGU2011-4071
Simone Atzori and Andrea Antonioli
 Optimizing the model resolution in the inversion of geodetic data
- 09:45–10:00 EGU2011-4405
 Pablo J. Gonzalez, **Jose Fernandez**, and Kristy F. Tiampo
 Multiple geodetic data combination to obtain 3D displacement fields: the 1999 Hector Mine earthquake case.

COFFEE BREAK

Chairperson: Lanari/Walter

- 10:30–10:45 EGU2011-12489
 Francesco Casu, Andrea Manconi, **Mariarosaria Manzo**, Antonio Pepe, Giuseppe Solaro, and Riccardo Lanari
 Selected case studies in advanced DInSAR analysis of seismogenic areas
- 10:45–11:00 EGU2011-2353
Semih Ergintav, Ziyadin Cakir, Ugur Dogan, and Mustafa Bas
 Monitoring Surface Deformation in Istanbul and Western Termination of the 1999 Izmit Earthquake Rupture (Turkey) Using PSInSAR and GPS Measurements
- 11:00–11:15 EGU2011-12410
Marcello de Michele, Daniel Raucoles, Paulino Feitio, Pierre Briole, and Joao Fonseca
 The Machaze (Mw 7, 2006, Mozambique) Earthquake: co- and post-seismic surface displacement characterisation using multiband InSAR.
- 11:15–11:30 EGU2011-11613
Manoochehr Shirzaei, Thomas R. Walter, James Foster, and Benjamin Brooks
 Aseismic block movement of southern flank of Kilauea revealed by wavelet analysis of InSAR and GPS time series

- 11:30–11:45 EGU2011-10938
Panagiotis Elias, Pierre Briole, and Olga Sykioti
 Synergy of SAR acquisitions for ground deformation monitoring by means of PSI, SBAS and DInSAR.
 Case study of western rift of Corinth, Greece
- 11:45–12:00 EGU2011-6553
Miguel Caro Cuenca and Ramon Hanssen
 On the origin of the recent surface deformation observed in the Roer Valley Rift System, the southern Netherlands, after spaceborne radar time series analysis

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 Funicello, 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 $87\text{Sr}/86\text{Sr}$ 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

TS8.1/SM2.5 – Earthquake Geology and the imprint of seismic cycles (co-organized) – Orals

Convener: Riccardo Caputo | Co-Conveners: Spyros Pavlides, Mustapha Meghraoui, Ziyadin Cakir, Javed Malik

Room: 28

Chairperson: Caputo R., Pavlides S.

- 10:30–10:45 EGU2011-12599
Mustapha Meghraoui, Ziyadin Cakir, Frédéric Masson, Yasser Mahmood, Semih Ergintav, Abdulmutalib Alchalbi, Sedat Inan, Mohamad Daoud, Onder Yonlu, and Erhan Altunel
 Kinematic modelling at the triple junction between the Anatolian, Arabian, African plates (NW Syria and in SE Turkey).
- 10:45–11:00 EGU2011-5767
Akin Kurcer and Y. Ergun Gokten
 Paleoseismic Trenching on the southern part of Tuzgölü Fault Zone, Central Anatolia, Turkey.
- 11:00–11:15 EGU2011-3198
Erhan Altunel, Volkan Karabacak, and Ziyadin Çakir
 Monitoring aseismic surface creep along the North Anatolian Fault (Turkey) using ground-based LIDAR
- 11:15–11:30 EGU2011-13082
Laureen Drab, Aurélie Hubert Ferrari, Sabine Schmidt, Julie Carlut, Elisabeth Michel, Philippe Martinez, and Jean-Luc Schneider
 The earthquake sedimentary record of the Marmara Sea, Turkey
- 11:30–11:45 EGU2011-4824
Athanassios Ganas, Nikos Palyvos, George Mavrikas, Vassilios Karastathis, George Drakatos, and Kostas Makropoulos
 Recognition and Characterisation of Neotectonic Faults in Heraklion City area (Crete, Greece): a multidisciplinary approach
- 11:45–12:00 EGU2011-3399
Matthieu Ferry, Mustapha Meghraoui, Najib Aboukaraki, and Masdouq Al-Taj
 Long-term and short-term earthquake behavior along the Dead Sea Fault (Jordan) from geomorphology, paleoseismology and archeoseismology

LUNCH BREAK

Chairperson: Meghraoui M., Furlong K.P.

- 13:30–13:45 EGU2011-6607
Maxwell Wilkinson, Kenneth McCaffrey, Gerald Roberts, Patience Cowie, and Richard Phillips
 Postseismic Deformation of the 2009 L'Aquila Earthquake (M6.3) Surface Rupture Measured Using Repeat Terrestrial Laser Scanning
- 13:45–14:00 EGU2011-6135
Maria Filomena Loreto, Fabrizio Zgur, Franco Pettenati, Lorenzo Facchin, Umberto Fracassi, and Isabella Tomini
 Active tectonics and potential seismogenic behavior of newly imaged structures in the Gulf of Santa Eufemia (southern Italy)
- 14:00–14:15 EGU2011-11348
Esther Hintersberger, Kurt Decker, and Johanna Lomax
 Paleoseismological investigations within the Vienna Basin (Austria) excavate the largest earthquake north of the Alps
- 14:15–14:30 EGU2011-3680
Marie Etchebes, Yann Klinger, Paul Tapponnier, Xiwei Xu, Jérôme Van Der Woerd, Clément Narteau, and Neta Wechsler
 Geometry, Slip distribution and Segmentation of the 11/08/1931 Fuyun Earthquake (Ms 7.9), Xinjiang, China, from satellite image analyses and field observations.
- 14:30–14:45 EGU2011-13859
Javed Malik, Mahendrasinh Gadhave, Khalid Ansari, Chiranjeev Banerjee, Falguni Bhattacharjee, and Ashok Singhvi
 Paleoseismic evidence from trenches excavated across Allah Bund Fault and archaeological site in mesoseismal zone of 1819 Allah Bund earthquake, Great Rann of Kachchh, Gujarat, Western India

- 14:45–15:00 EGU2011-6056
Tina Dura, **Charles Rubin**, Harvey Kelsey, Ben Horton, Andrea Hawkes, Candace Grand Pre, Mudrik Daryono, Tyler Ladinsky, Christopher Vane, and Sarah Bradley
Preservation of Holocene Earthquakes, Sungai Pinang, Western Sumatra
Chairperson: Caputo R., Malik J.
- 15:30–15:45 EGU2011-8204
Jean Chery
On the use of tiltmeters for a better determination of fault strain at depth
- 15:45–16:00 EGU2011-4759
Rita Carmo, José Madeira, Ana Hipólito, and Teresa Ferreira
Paleoseismology trenching in central S. Miguel Island (Azores): the Altiprado faults
- 16:00–16:15 EGU2011-4298
Kevin P. Furlong, Gavin P. Hayes, Mark Quigley, and Harley Benz
Tectonic-seismology of the Mw 7.1 2010 Darfield (Canterbury NZ) Earthquake
- 16:15–16:30 EGU2011-11140
Stéphane Baize, Laurence Audin, Thierry Winter, Alexandra Alvarado, Luis Pilatasig, Paul Kauffmann, Mercedes Taipei, and Pedro Reyes
Paleoseismicity of the Pallatanga Fault and seismic hazard implications
- 16:30–16:45 EGU2011-3298
Joaquín Cortés, Gabriel Gonzalez, Steve Binnie, Ruth Robinson, and Sheng Xu
Paleoseismology of the Mejillones Fault, northern Chile
- 16:45–17:00 EGU2011-13843
Wayne Thatcher and Jerry Svarc
GPS Networks Bringing Interior Western U. S. Deformation into Focus

TS8.1/SM2.5 – Earthquake Geology and the imprint of seismic cycles (co-organized) – Posters

Convener: Riccardo Caputo | Co-Conveners: Spyros Pavlides, Mustapha Meghraoui, Ziyadin Cakir, Javed Malik

Hall XL | Display Time 08:00–17:00

Author in Attendance: 08:30–10:00

Chairperson: Caputo R., Pavlides S., Meghraoui M., Cakir Z., Malik J.

- XL233 EGU2011-135
Kür?ad Kadir Eri?, Nam?k Ça?atay, and Christian Beck
Seismo-tectonic influences on post-glacial sedimentary fills of the Sea of Marmara (Ä°stanbul, Turkey); evidences from high-resolution seismic and core studies
- XL234 EGU2011-523
Shahar Shani-Kadmiel, Michael Tsesarsky, Zohar Gvirtzman, and John N. Louie
Ground Motion Analysis in the Geometrically Complex Sedimentary Basins of the Dead Sea Transform
- XL235 EGU2011-549
Riccardo Caputo, Tejpal Singh, and Arun Awasthi
Thrust related relief development and seismicity of the Indian Sub-Himalaya: A critical taper model perspective for the regional seismic hazard
- XL236 EGU2011-1603
Ling-Yun Chang, Chien-Chih Chen, Ya-Ting Lee, Kuo-Fong Ma, Yen-Yu Lin, and Wen-Yen Chang
Power spectral analysis of micro-earthquake sequence recorded by the Taiwan Chelungpu-fault Drilling Project
- XL237 EGU2011-1740
Cahit Caglar Yalciner, Erhan Altunel, Maksim Bano, Mustapha Meghraoui, Volkan Karabacak, and H. Serdar Akyuz
Identification of buried normal faults with GPR: a case study in the Büyük Menderes Graben, Western Turkey
- XL238 EGU2011-1811
Fabrizio Storti, Fabrizio Balsamo, and Marco Tallini
Evidence for Quaternary strong paleo-earthquakes in the epicentral area of the April 6th 2009 l'Aquila earthquake, Italy
- XL239 EGU2011-2293
José Madeira, António Brum da Silveira, Rita Carmo, and Ana Hipólito
Trenching in S. Jorge (Azores): the Cume da Fajã do Belo fault zone
- XL240 EGU2011-2439
Roman Nepop, Anna Agatova, and Grigory Kvasov
Geological and statistical aspects of seismically triggered landslide investigation for the sake of paleoseismicity study and estimating earthquake induced topography changes

- XL241 EGU2011-2831
Zhongyan Shen, Jinyao Gao, Chunguo Yang, Yong Yang, Tao Zhang, and Zhaocai Wu
 Quaternary faulting of the Qianliyan Uplift in the northern South Yellow Sea and its relationship with the earthquake hazard
- XL242 EGU2011-2847
Chang-Bock Im, Chun-Joong Chang, and Taek-Mo Shim
 Estimating of the Earthquake Magnitudes from the Parameters of Seismogenic faults in Korea
- XL243 EGU2011-2872
Min-Hung Shih, Bor-Shouh Huang, Wen-Tzong Liang, Lupei Zhu, Chien-Ying Wang, Horng-Yuan Yen, David Okaya, Francis T. Wu, Chau-Huei Chen, and Tao-Ming Chang
 Detail examination of the March 4, 2008 Taoyuan earthquake sequence from Regional Network and the TAIGER Short-period Array Observations
- XL244 EGU2011-3331
Erhan Altunel, Volkan Karabacak, Önder Yönlü, Mustapha Meghraoui, Hüsnü Serdar Akyüz, and Nafiye Güneç K?yak
 Field observations for Holocene earthquake activity on the Gölba?i-Türkoglu segment of the East Anatolian Fault Zone, Turkey
- XL245 EGU2011-3357
Mustapha Meghraoui, Francisco Gomez, Matthieu Ferry, Reda Sbeinati, Abdulmutalib Alchalbi, Abdunasser Darkal, Mohamad Daoud and the NECS and HIESR Team
 Long-term faulting history along the Missyaf - Ghab segment (Syria) of the Dead Sea Fault from paleoseismology
- XL246 EGU2011-3581
Christoph Grützner, Klaus Reicherter, Jonas Winandy, Thomas Wiatr, Peter Fischer, and Thomas Ibeling
 Paleoseismological studies in the Lower Rhine Embayment - The Rurrand fault responsible for the 1756 Düren earthquakes?
- XL247 EGU2011-4041
Stathis C. Stiros, Fanis Moschas, and Stella Pytharouli
 Recent coastal uplift and subsidence along the Ionian front of Greece mainland - observations and significance
- XL248 EGU2011-4213
Mohammad Mahdi Khatib, Mohammad Hosein Zarrinkoub, and Hesam Yazdanpenah
 Investigation of active blind fault by aeromagnetic data in North of Birjand, east of Iran
- XL249 EGU2011-4710
 Tadashi Yamasaki and **Gregory A. Houseman**
 Signature of depth-dependent crustal viscosity in post-seismic deformation
- XL250 EGU2011-5702
Akin Kurcer, Y. Ergun Gokten, Hayrettin Karzaoglu, Korhan Kose, Erdener Izladi, Sinem Aykac, Rezzan Ozerk, Tolga Alkeveli, and Yahya C?ftci
 The Tuzgölü Fault Zone in the Light of Geological and Geophysical Data, Central Anatolia, Turkey
- XL251 EGU2011-6602
Olga Trubienko, Luce Fleitout, and Jean-Didier Garaud
 {Interpretation of intersismic deformations and the seismic cycle associated with large subduction earthquakes
- XL252 EGU2011-7153
 Valeria Paoletti, Daniela Tarallo, **Robert Supper**, and Antonio Rapolla
 Strategies for seismic hazard mitigation in landslide-prone regions
- XL253 EGU2011-7657
Shin Koshiya, Hiroshi Sato, Naoko Kato, Fumiko Watahiki, Eiji Kurashimo, Susumu Abe, Kazuya Shiraishi, and Motonori Higashinaka
 Inversion structure constraining the focal area of the Iwate-Miyagi Nairiku Earthquake in 2008, northeast Honshu, Japan
- XL254 EGU2011-7991
Louise W Bjerrum, Mathilde B Sørensen, Torunn Lutro, and Kuvvet Atakan
 Impact of geological information on scenario based hybrid ground motion simulations in Izmir, Turkey
- XL255 EGU2011-8486
Chang Liu, Bojing Zhu, and Yaolin Shi
 Numerical Modeling of Recurrence Interval of Wenchuan Earthquake Based on Visco-elasticity
- XL256 EGU2011-9229
Roy H. Gabrielsen, Jan Inge Faleide, Karen A. Leever, and Ivar Grunnaleite
 Strike-slip related inversion- tectonics of the southwestern Barents Sea (Norwegian Shelf) in a plate tectonic perspective
- XL257 EGU2011-9498
Taylan Sançar, Cengiz Zabc?, and H. Serdar Akyüz
 Quaternary Activity of Varto Fault Zone (Eastern Anatolia) and New Ideas About 1966 Varto Earthquake

- XL258 EGU2011-11602
Angela Landgraf, Kanatbek Abdrakhmatov, Atyr Djumabaeva, Manfred R. Strecker, and J. Ramon Arrowsmith
 Paleoseismological investigations in the northern Tien Shan near Bishkek, Kyrgyzstan
- XL259 EGU2011-12241
Petra Jamšek, Lucilla Benedetti, Marko Vrabec, and Miloš Bavec
 Geomorphological evidence for recent activity of the Vodice fault and its potential for seismic hazard in Ljubljana basin (Slovenia)
- XL260 EGU2011-12355
Ximena Contardo-Berrios and Nina Kukowski
 Bathymetric and seismic evidences of a regional strike slip system fault (ASF) along the submarine forearc of Central Chile and their potential link on generation of giant earthquakes
- XL261 EGU2011-12746
Alexandros Chatzipetros, Spyros Pavlides, Vasilios Marinos, Efstratios Delogkos, and Theodoros Tsapanos
 Ground rupturing in Mavropigi, northern Greece due to mining and active tectonics
- XL262 EGU2011-13118
Andrés Carbó-Gorosabel, José Luis Granja Bruña, Pilar Llanes Estrada, Alfonso Muñoz-Martín, María Druet, María Gómez Ballesteros, José Martín-Dávila, Antonio Pazos, Manuel Catalán, and Uri ten Brink
 Marine geophysical research helps to asses the seismic hazard at the Hispaniola island
- XL263 EGU2011-13888
Natalia P. Bulatova
 Spatio-temporal analysis of seismic activity in the 20th century on the planetary scale

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 Näsland, 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

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

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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 Crameri, Susanne Buitter, 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, Evguenii Burov, and Laurent Jolivet
 Core complex formation in a crustal wedge. Thermomechanical models and applications

