

EGU General Assembly 2011
Programme Group Programme
SM – Seismology

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Monday, 04 April

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 Vilote, 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, Paweł 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 Vogfjörd, 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
Gérard 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

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 Kalogerias

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 Zülfikar, Hakan Alcik, Aydin Mert, and Mustafa Erdik
The Strong Motion Networks in Istanbul Metropolitan
- XY667 EGU2011-10705
Eser Cakti, Murat Bikce, Oguz Ozel, Cemal Genes, Selcuk Kacin, and Yavuz Kaya
Antakya basin strong ground motion network
- XY668 EGU2011-9488
Reda Abdel-Fattah, Abdullah Al-Enezi, Farah Al-Jerri, Sheikh Abdul Majeed Ahmad, and Leonid Zimakov
Kuwait National Seismic Network: Performance and Future Expansion
- XY669 EGU2011-6927
Ludger Kueperkoch, Thomas Meier, Andrea Bruestle, Jimin Lee, Wolfgang Friederich, and The Egelados Working Group
Automated P- and S-phase arrival time estimation at local and regional distances
- XY670 EGU2011-6950
Maria-Theresia Apoloner, Ewald Brückl, Johanna Brückl, Walter Loderer, Stefan Mertl, and Bernd Schurr
Location performance of the ALPAACT seismic network
- XY671 EGU2011-8733
Giovanni Romeo
Whales watching
- XY672 EGU2011-9645
Juan Reyes, Gert-Jan van den Hazel, Frank Vernon, and Robert Newman
Moment Tensor code for the Antelope Environmental Monitoring System
- XY673 EGU2011-6249
Jörn Groos and Joachim Ritter
Evaluation of the seismic noise conditions by statistical time series classification for site selection in densely-populated areas
- XY674 EGU2011-13605
Eser Cakti, **Ebru Harmandar**, and Erdal Safak
Wave propagation in downtown Istanbul deduced from earthquake records
- XY675 EGU2011-3801
Juan Reyes, Robert Newman, Frank Vernon, and Jamison Steidl
Web-based display and interaction with high density waveform data recorded by seismic networks as a tool for network diagnostics: the Waveform Server
- XY676 EGU2011-13441
Gert-Jan van den Hazel, **Reinoud Sleeman**, Torild van Eck, Luca Trani, and Alessandro Spinuso
Data and related products available at the Orfeus Data Center - the how and what
- XY677 EGU2011-6264
Jan Michálek, **Jana Doubravová**, and Stefan Mertl
Usage of SEISMON within the WEBNET seismic network
- XY678 EGU2011-11615
Ruben Luis, Jens Havskov, Lars Ottemöller, Peter Voss, and Teresa Ferreira
Integrated Access to miniSEED Archives Using SEISAN Earthquake Analysis Software
- XY679 EGU2011-6190
Felix Borleanu, Mihaela Popa, Mircea Radulian, and Shirley Baher
Calibration of BURAR (Romania) seismic array to estimate location and magnitude for the events occurred in the East and Southeast part of the array

SM1.7/CR11.10/GI-18 – Challenges of Polar Seismology: Logistics and technology, glacial and tectonic events (co-organized) – Orals

Convener: Trine Dahl-Jensen | Co-Conveners: Vera Schlindwein, Meredith Nettles

Room: 26

Chairperson: n.n.

- 15:30–15:45 EGU2011-13538
Douglas A. Wiens, David Heeszel, Xinlei Sun, Amanda Lough, Andrew Nyblade, Sridhar Anandakrishnan, Richard C. Aster, Audrey Huerta, and Paul Winberry
Seismic structure and sources of the Antarctic continent determined from large-scale year around deployment of broadband seismographs
- 15:45–16:00 EGU2011-4112
Galina Antonovskaya and Felix Yudakhin
About necessity of carrying out seismogeodynamic monitoring of the Russian Federation's Arctic zone
- 16:00–16:15 EGU2011-2493
Trine Dahl-Jensen and the GLISN Team
The GreenLand Ice Sheet monitoring Network (GLISN)
- 16:15–16:30 EGU2011-5505
Morten Langer Andersen, **Tine B. Larsen**, and Meredith Nettles
Detection and spectral characterization of calving related seismic signals, Helheim Glacier, South East Greenland
- 16:30–16:45 EGU2011-8322
Elena Kozlovskaya and the POLENET/LAPNET Working Group Team
Analysis of glacial seismic events from Greenland recorded by the POLENET/LAPNET experiment during the IPY 2007-2009
- 16:45–17:00 EGU2011-10337
John Clinton, Marco Olivieri, Jason Amundson, and Fabian Walter
Counting Calving Events in Greenland using GLISN

SM1.7/CR11.10/GI-18 – Challenges of Polar Seismology: Logistics and technology, glacial and tectonic events (co-organized) – Posters

Convener: Trine Dahl-Jensen | Co-Conveners: Vera Schlindwein, Meredith Nettles

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY680 EGU2011-12765
Elena Kozlovskaya, Alexander Kozlovsky and the POLENET/LAPNET Working Group Team
Problem of misinterpretation of geomagnetic pulsations recorded by broadband seismometers as seismic signals: possible solutions
- XY681 EGU2011-1895
Bela Assinovskaya and Vladimir Karpinsky
Unusual Earthquake July 31, 2010 in Lake Ladoga
- XY682 EGU2011-2458
Vera Schlindwein and Christine Läderach
Seismology on drifting ice floes
- XY683 EGU2011-10457
Myrto Pirli, Johannes Schweitzer, **Tormod Kværna**, and the IPY Project Consortium
A year of seismic swarm activity on the Mohns - Knipovich Ridge Bend
- XY684 EGU2011-6325
Andreas Köhler, Anne Chapuis, Christopher Nuth, and Christian Weidle
Searching for glacier-induced seismic events using a combined approach of STA/LTA triggering and unsupervised pattern recognition
- XY685 EGU2011-8589
Stephan Husen, Fabian Walter, Martin Funk, Martin Lüthi, and John F. Clinton
Subglacial Controls on the Short Term Dynamics at the Margin of the Greenland Ice Sheet: Seismic Experiments
- XY686 EGU2011-9206
Jason Amundson, John Clinton, Martin Luethi, Emile Okal, Doug MacAyeal, and Marco Olivieri
Long-period glaciogenic ocean waves revealed by coastal broadband seismometers near Jakobshavn Isbræ, Greenland
- XY687 EGU2011-12191
Giuseppe Falcone, Giuditta Marinaro, Giovanni Battista Cimini, Paolo Favali, Francesco Frugoni, Stephen Monna, and Caterina Montuori
Seismological observations of the experiment in Antarctica with MABEL seafloor multidisciplinary observatory
- XY688 EGU2011-6137
Fabian Walter, Debi Kilb, Nicolas Deichmann, Martin Funk, and Helen Amanda Fricker
Surface Seismicity on Gornergletscher, a Swiss Alpine Glacier

SM1.11 – Global capacity building efforts in Seismology – Posters

Convener: Florian Haslinger | Co-Conveners: Susanne Sargeant, Lars Ottemoller

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

XY689 EGU2011-4322

Anne Meltzer, Sergio Barrientos, Noel Barstow, Olga Cabello, Karen Fischer, Art Lerner-Lam, Andy Nyblade, Eric Sandvol, Niyazi Türkelli, and Ray Willemann

Geophysical infrastructure, seismological research, and earthquake hazard assessment: Bridging the gap.

XY690 EGU2011-7872

Lars Ottemoller and Jens Havskov

Key to sustainable seismic networks: Skills and operational funding more important than equipment

XY691 EGU2011-9745

Claus Milkereit and Peter Bormann

Training Courses on 'Seismology and Seismic Hazard Assessment'

XY692 EGU2011-11969

Florian Haslinger, Nicole Keller, and Marco Pagani

Technical Capacity Building, Knowledge Transfer, and Skills Development in Earthquake Hazard and Risk Assessment - the Global Earthquake Model GEM

XY693 EGU2011-12393

john coyne, Belkacem Djermouni, and **Lassina Zerbo**

Capacity Building in the Context of the Comprehensive Nuclear-Test-Ban Treaty

XY694 EGU2011-12406

john coyne, Belkacem Djermouni, **Misrak Fisseha**, Gadi Turyomurugyendo, and Lassina Zerbo

CTBTO Capacity Building Follow-Up Visits in Africa

SM3.1 – Seismic Imaging of the Earth's Interior: Theoretical and Methodological Achievements in Seismic imaging –

Orals

Convener: Edi Kissling | Co-Conveners: Jean-Xavier Dessa, Ivan Koulakov, Stefan Buske

Room: 27

Chairperson: Ivan Koulakov

08:30–08:45 EGU2011-7298

James Wookey

Direct probabilistic inversion of shear-wave data for anisotropy

08:45–09:00 EGU2011-296

Armstrong Fransiskus Sompotan, Linus Ampang Pasasa, and Rachmat Sule

Comparing Models GRM, Refraction Tomography and Neural Network

09:00–09:15 EGU2011-5209

Juan Carlos Afonso, Yingjie Yang, Javier Fullea, Sergei Lebedev, and Sergio Zlotnik

A 3D multi-observable probabilistic inversion method for the compositional and thermal structure of the lithosphere and sublithospheric upper mantle

09:15–09:30 EGU2011-5234

Hrvoje Tkalcic, Thomas Bodin, Malcolm Sambridge, Kerry Gallagher, and Pierre Arroucau

A new Paradigm for Seismic Imaging of the Earth's Crust and Upper Mantle: Transdimensional Inversion of Receiver Functions and Surface Wave Dispersion With Hierarchical Bayes Algorithm

09:30–10:00 EGU2011-2999

Guust Nolet, Christophe Zaroli, Jean Charlety, and Diego Mercrat

Seismic tomography: recent developments and new perspectives

SM3.1 – Seismic Imaging of the Earth's Interior: Theoretical and Methodological Achievements in Seismic imaging –

Posters

Convener: Edi Kissling | Co-Conveners: Jean-Xavier Dessa, Ivan Koulakov, Stefan Buske

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Jean-Xavier Dessa

XY695 EGU2011-2436

Yury Kolesnikov and Evgeny Hogoev

Application of Emission Tomography for Localization of Seismic Sources and Active Zones

XY696 EGU2011-2513

Genny Giacomuzzi, Nicola Piana Agostinetti, Claudio Chiarabba, Pasquale De Gori, and Alberto Malinverno

Local Earthquake Tomography by trans-dimensional Monte Carlo sampling

XY697	EGU2011-3164 Ludek Vecsey , Jaroslava Plomerova, Tuna Eken, and Vladislav Babuska Role of seismic anisotropy in isotropic tomographic models of the upper mantle
XY698	EGU2011-5297 Michel foundotos and Guust Nolet Observability of Multiply Reflected P Waves
XY699	EGU2011-5331 Naeurn Kwak , Dong-Joo Min, Youngseo Kim, Ho Seuk Bae, and Ho-Yong Lee Reverse time migration in VTI and TTI media
XY700	EGU2011-6932 Naimeh Moghadasi , Mohammad Reza Gheitanchi, and Hossein Hashemi Shahdani Reflection travel time tomography applied in Lorestan
XY701	EGU2011-6955 Maryam Sadat Mirkamali and Hamid Reza Ramazi Detecting faults with using the seismic attributes and neural networks in an oil reservoir
XY702	EGU2011-13035 Nicola Piana Agostinetti , Alberto Malinverno, Claudio Chiarabba, Leonardo Seeber, Alessandro Amato, Genny Giacomuzzi, Pio Lucente, Irene Bianchi, Massimo Di Bona, and Pasquale De Gori Time-evolution of subsurface elastic properties revealed by full 4D seismic tomography: an application to the 2009 L'Aquila earthquake sequence
XY703	EGU2011-13212 Mark Noble , Alexandrine Gesret, and Nidhal Belayouni A fast and accurate 3D finite-difference Eikonal solver using a perturbation method
XY704	EGU2011-632 Diana Nuñez , Edi Kissling, Diego Cordoba, and Antonio Pazos Consistency in CSS phase correlation: Application to CARIBE NORTE data set
XY705	EGU2011-4539 Andri Hendriyana , Rachmat Sule, Fatkhan Fatkhan, Alfian Bahar, and Alpius Guntara An Application of CRS-Based Depth Imaging : Real Data Example
XY706	EGU2011-2984 Christian Weidle Surface wave phase velocity maps from multiscale wave field interpolation
XY707	EGU2011-1791 Christophe Zaroli , Guust Nolet, Eric Debayle, and Malcolm Sambridge Global multiple-frequency SH-wave tomography: refining seismic imaging of the Earth's mantle
XY708	EGU2011-3030 Benoit de Cacqueray , Philippe Roux, Michel Campillo, Stefan Catheline, Julien Meunier, Thomas Bianchi, and Pierre Boué Surface wave study at laboratory scale
XY709	EGU2011-2857 Jacek Stankiewicz , Trond Ryberg, Christian Haberland, and Michael Weber Characteristics of ambient seismic noise used for surface wave tomography

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 Radovanović, 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 Tkalcic, Sara Pozgay, and Elizabeth Vanacore
 Seismic imaging results from a transportable array experiment in southeast Australia
- 14:00–14:15 EGU2011-11651
Andrew Schaeffer and Sergei Lebedev
 Seismic velocity and anisotropy of the upper mantle and transition zone at global and regional scales imaged using Surface and S waveform tomography
- 14:15–14:30 EGU2011-7571
Genyang Tang, Penny Barton, Simon Dean, Frederik Tilmann, Muhammad Jusuf, Timothy Henstock, Frauke 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, Kayrly Jaxybulatov, and Andrey Jakovlev
 4D tomography images reveal migration of magma chambers beneath Kluchevskoy volcano (Kamchatka)

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

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

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Dapeng Zhao

- XY710 EGU2011-1581
zeinab jeddi and mohammad tatar
 P-phase Arrival Time Local Earthquake Tomography in BAM Region
- XY711 EGU2011-2775
Samar Amini and Hossein Shomali
 New Constraints on Pn-Velocity Structure of the Iranian Plateau
- XY712 EGU2011-4534
Najmeh Mohammadi, Ahmad Sadikhovy, and Forough Sodoudi
 Variation of the Moho depth along the Shooshtar-Damavad profile (Iran) using P receiver functions
- XY713 EGU2011-4554
Tayyebe 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 Paulsen
Upper mantle heterogeneity and depth-dependent anisotropy in the Central Mediterranean subduction zone
- XY720 EGU2011-8096
Stephen Monna and Tiziana Sgroi
Crustal 3D tomography of the Southern Tyrrhenian Sea: new constraints using passive seismic data from OBS and land stations
- XY721 EGU2011-8501
Paola Baccheschi, **Pasquale De Gori**, and Claudio Chiarabba
Seismic attenuation tomography beneath the retreating Southern Tyrrhenian Sea subduction system
- XY722 EGU2011-9305
Emanuela Matrullo, Ortensia Amoroso, Raffaella De Matteis, Claudio Satriano, and Aldo Zollo
1D versus 3D velocity models for earthquake locations: a case study in Campania-Lucania region (Southern Italy)
- XY723 EGU2011-1361
Edoardo Del Pezzo, Francesca Bianco, and Luca De Siena
A scattering Image of Campi Flegrei from the Auto Correlation Functions of Velocity tomograms
- XY724 EGU2011-9968
Hanna Silvennoinen, Elena Kozlovskaya, Eduard Kissling, Tomasz Janik and the POLENET/LAPNET working group Team
Compilation of initial 3-D crustal model northern Fennoscandian shield
- XY725 EGU2011-11711
Tellervo Hyvönen, Timo Tiira, Annakaisa Korja, and Kari Komminaho
Crustal Structure of the central Baltic Shield highlighted by Seismic Tomography and Anisotropy Studies
- XY726 EGU2011-8675
Louis De Barros, Francesca Martini, Christopher J. Bean, Araceli García Yeguas, and Jesus M. Ibáñez
Magmatic storage below Teide volcano from reflected and scattered seismic waves
- XY727 EGU2011-5262
Shuhei Hada, Junichi Nakajima, Naoki Uchida, Erika Hayami, and Norihito Umino
Estimation of corner frequency of intraslab earthquakes and whole ray path attenuation term beneath NE Japan
- XY728 EGU2011-313
Ekaterina Kukarina and Ivan Koulakov
Two scales of tomographic inversions in Hokkaido (Japan) reveals the link between the volcanic areas and flows in the mantle wedge
- XY729 EGU2011-787
David P. Sahara, Sri Widiyantoro, Andri D. Nugraha, Rachmat Sule, and Birger G. Luehr
Determination of Subsurface Velocity Structure and Precise Hypocenters Relocation by using Double-Difference Technique: Case Study of Central Java - Indonesia
- XY730 EGU2011-339
Jaxybulatov Kairly and Koulakov Ivan
Shape of the subducted slab beneath the Sunda arc derived from regional tomographic inversion
- XY731 EGU2011-2466
Andrey Jakovlev, Georg Ruempker, and Ivan Koulakov
Multi Scale Imaging of Seismic Structure beneath the Western Branch of the East-African Rift
- XY732 EGU2011-316
Irina Zabelina and Ivan Koulakov
Block structure of San-Francisco zone from the local earthquake tomography
- XY733 EGU2011-6255
Michelle Salmon, Brian Kennett, and **Erdinc Saygin**
AuSREM - Australian Seismological Reference Earth Model

XY734 EGU2011-1178

Heeok Jung, Yong-seok Jang, and Bong Gon Jo

Upper crust shear wave tomography of South Korea estimated by explosion and earthquake data

SM3.3 – The QUEST project: progress on inverting seismic waveforms for sources and Earth's structure using 3-D wave propagation – Oral presentations

Convener: Heiner Igel | Co-Conveners: Ana MG Ferreira, Jeannot Trampert, Peter Moczo, Jean-Paul Montagner

Room: 27

Chairperson: Heiner Igel

15:30–15:45 EGU2011-5524

Peter Moczo, Jozef Kristek, Martin Galis, and Emmanuel Chaljub

Why some numerical schemes loose their accuracy with increasing P-wave to S-wave speed ratio?

15:45–16:00 EGU2011-8755

Andreas Fichtner and Jeannot Trampert

Quantitative resolution analysis in full seismic waveform inversion

16:00–16:15 EGU2011-4949

Ana MG Ferreira, Jennifer Weston, and Gareth J Funning

Global CMT source inversions using 3D Earth models: comparisons with InSAR

16:15–16:30 EGU2011-4851

Karin Sigloch and Guust Nolet

Frequency dependence of observed P-wave traveltimes and amplitudes, and their prediction by finite-frequency tomography

16:30–16:45 EGU2011-11554

Piero Basini, Tarje Nissen-Meyer, Lapo Boschi, Julie Verbeke, Olaf Schenk, and Domenico Giardini

Ambient-noise tomography of the European lithosphere: numerical calculation of sensitivity kernels for nonuniform noise-source distributions.

16:45–17:00 EGU2011-11924

Claudio Satriano, Viviana Dionicio, and Jean-Pierre Vilotte

Imaging the earthquake rupture from the back projection of body waves

SM3.3 – The QUEST project: progress on inverting seismic waveforms for sources and Earth's structure using 3-D wave propagation – Posters

Convener: Heiner Igel | Co-Conveners: Ana MG Ferreira, Jeannot Trampert, Peter Moczo, Jean-Paul Montagner

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Heiner Igel

XY735 EGU2011-1282

Moritz Bernauer, Andreas Fichtner, and Heiner Igel

Measurements of translation, rotation and strain: New approaches to seismic processing and inversion

XY736 EGU2011-2689

Yang Shen and Wei Zhang

Full-wave ambient noise tomography at local and regional scales

XY737 EGU2011-2887

Takumi Hayashida, Fumiko Tajima, Junichi Nakajima, and Jim Mori

Regional Travel-time Inversion and Waveform Modeling for 3D Velocity Structure in Southwestern Japan

XY738 EGU2011-3731

Simone Cesca, Torsten Dahm, and Daniela Kühn

Determining the rupture process of the 7 May 2001 M2 4.1 Ekofisk induced earthquake using seismological and deformation data

XY739 EGU2011-4607

Davide Gei, Leo Eisner, Vladimir Grechka, **Geza Seriani**, and Peter Suhadolc

Feasibility of estimation of vertical transverse isotropy from microseismic data recorded by surface monitoring arrays

XY740 EGU2011-4673

Piero Poli, Michel Campillo, Helle Pedersen, and Polenet/lapnet Working Group

Emergence of body waves from cross-correlation of short period seismic noise

XY741 EGU2011-5550

Alan Schiemenz, Martin Kaeser, Hugues Djikpess, and Heiner Igel

Modeling of Borehole-Guided Waves and Reservoir Formation Reflections with a Discontinuous Galerkin Finite Element Method

- XY742 EGU2011-5682
Jozef Kristek, Peter Moczo, Emmanuel Chaljub, Pierre-Yves Bard, Fabrice Hollender, Peter Franek and the E2VP Team
Verification of the 3D numerical methods for modeling seismic motion - the case of the Mygdonian basin, Greece
- XY743 EGU2011-5837
Miriam Kristekova, Martin Galis, Peter Moczo, and Jozef Kristek
A posteriori filtration of the slip-rate time histories
- XY744 EGU2011-6319
Florian Schumacher and Wolfgang Friederich
Waveform Sensitivity Kernels for 3D Elastic Background Media
- XY745 EGU2011-6858
Lubica Valentova, Frantisek Gallovic, and Josep de la Puente
Inversion of Love wave traveltimes in Czech Republic using adjoint method
- XY746 EGU2011-8552
Maria Nader, Heiner Igel, Dieter Kurrle, Ana Ferreira, Joachim Wassermann, and Ulrich Schreiber
Observations of Earth's Free Oscillation with Long-Period Rotational Ground Motion Records.Â
- XY747 EGU2011-8638
Piero Poli, Michel Campillo, Helle Pedersen, and Polenet/Lapnet Working Group
Emergence of body waves from cross-correlation of short period seismic noise
- XY748 EGU2011-11181
Catherine Gourdin, Guust Nolet, Guy Masters, and Gaby Laske
New mode splitting estimations from recent large earthquakes
- XY749 EGU2011-11227
Seyed Kasra Hosseini zad, Karin Sigloch, Simon Stähler, and Tarje Nissen-Meyer
"No Data Left Behind" - Efficient waveform processing for global finite-frequency tomography
- XY750 EGU2011-12737
Nian Wang, Yann Capdeville, Gael Burgos, and Jean-Paul Montagner
Separation of intrinsic and artificial anisotropy by using homogenization method
- XY751 EGU2011-12797
Tarje Nissen-Meyer and Alexandre Fournier
Fréchet kernel sensitivity

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

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

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY752 EGU2011-4320
Erdinc Saygin and **Brian Kennett**
The Crustal Structure of Australian Continent from Seismic Ambient Noise
- XY753 EGU2011-3467
Hanneke Paulissen, Tedi Yudistira, and Jeannot Trampert
Rayleigh wave group velocity tomography of the Netherlands from ambient seismic noise
- XY754 EGU2011-7479
Bogdan Grecu, Yong Ren, Dragos Tataru, Cristian Neagoe, Graham Stuart, Greg Houseman, Mircea Radulian, and Victor Raileanu
First results of seismic noise cross-correlations between Romanian permanent broadband network and temporary stations deployed in the western part of Romania
- XY755 EGU2011-12079
Abigail Jiménez, Antonio García-Jerez, and **Francisco Luzón**
Analysis of surface wave dispersion in Navarra (Northern Spain) from cross-correlation of ambient noise
- XY756 EGU2011-11993
Antonio García-Jerez, **Francisco Luzón**, and Abigail Jiménez
Inferring the Elastic properties of the Low Andarax River Valley (SE Spain) by Means of Array Analysis of Ambient Noise
- XY757 EGU2011-5853
Antonio 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 Hadzioannou, 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

SM3.7 – Multi-dimensional electromagnetic modelling and inversion – Posters

Convener: Marion Miensopust | Co-Conveners: Pilar Queralt, Colin Farquharson

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY769 EGU2011-2953
Josef Pek, Fernando A. M. Santos, and Yuguo Li
Magnetotelluric Inversion for 2-D Anisotropic Conductivity
- XY770 EGU2011-4834
Marion Miensopust and Alan G. Jones
Artefacts of isotropic inversion applied to anisotropic magnetotelluric data
- XY771 EGU2011-14056
Anna Martí, **Pilar Queralt**, Juanjo Ledo, and Colin Farquharson
Electrical anisotropy: dimensionality imprints in magnetotelluric responses and effects in isotropic inversion.
- XY772 EGU2011-4746
Jan-Philipp Schmoldt and Alan G. Jones
Using anisotropic approaches to realise 2D magnetotelluric inversion of a subsurface with depth-varying geoelectric strike direction - Synthetic model study and application to real data from the PICASSO Phase I project
- XY773 EGU2011-125
Kaijun Xu, Jianping Li, and Zhan Liu
Three-dimensional Complex Resistivity Modelling and Inversion with Topography
- XY774 EGU2011-4368
Seyedmasoud Ansari and Colin G. Farquharson
3D Finite-element Simulation of Controlled-source EM problems Using Edge and Nodal Interpolation functions

XY775 EGU2011-6266

Ralph-Uwe Börner, Martin Afanasjew, Stefan Güttel, Oliver G. Ernst, Michael Eiermann, and Klaus Spitzer
Three-Dimensional Simulation of Time-Domain Electromagnetic Fields using Krylov Subspace Methods, Finite Elements, and an Exact Boundary Condition

XY776 EGU2011-6270

Antje Franke-Börner, Ralph-Uwe Börner, and Klaus Spitzer
The evaluation of different formulations of the MT boundary value problem for 3D finite element simulation

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 Arnauld 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 Tilman, 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 Gademan, 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 peridotites

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 Lagabrielle, 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

NH4.4/SM5.6 – Earthquake Risk and Loss Estimates: New Directions (co-organized) – Orals

Convener: Max Wyss | Co-Conveners: Jochen Zschau

Room: 11

Chairperson: Max Wyss, Jochen Zschau

- 15:30–15:45 EGU2011-1816
Friedemann Wenzel and Vladimir Sokolov
 Correlated Ground Motion - Influence on Loss Estimates
- 15:45–16:00 EGU2011-2556
Massimiliano Pittore, Marc Wieland, Dino Bindi, Stefano Parolai, and Jochen Zschau
 Towards a rapid, integrated, multi-scale assessment of earthquake risk: a case study in Central Asia
- 16:00–16:15 EGU2011-9938
Max Wyss, Goran Trendafiloski, Mikheil Elashvili, Nato Jorjashvili, and Zurab Javakhishvili
 The mapping of teleseismic epicenter errors into errors in estimating casualties in real time due to earthquakes worldwide.

- 16:15–16:30 EGU2011-13204
Mustafa Erdik, Mine Betül Demircioğlu, and Karin Sesetyan
Assessment of Seismic Risk in Turkey
- 16:30–16:45 EGU2011-1971
Matteo Picozzi
Tailor-made earthquake early warning for buildings
- 16:45–17:00 EGU2011-12123
Joachim Fischer, Ingmar Eveslage, Jens-Peter Redlich, Anatolij Zubow, Markus Scheidgen, Jochen Zschau, and Claus Milkereit
Extended SOSEWIN-Services

NH4.4/SM5.6 – Earthquake Risk and Loss Estimates: New Directions (co-organized) – Posters

Convener: Max Wyss | Co-Conveners: Jochen Zschau

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Max Wyss, Jochen Zschau

- XY465 EGU2011-2039
Gulum Tanircan, Nino Tsereteli, Tamaz Chelidze, Otar Varazanashvili, Emili Tsereteli, and Alexander Gvencadze
Seismic Hazard Assessment for Georgia
- XY466 EGU2011-2738
Arif Akhundov, Tahir Mammadli, Etibar Garaveliyev, Qurban Yethirmishli, and Gulum Tanircan
Seismic Hazard Assessment for Azerbaijan
- XY467 EGU2011-3424
Dimcho Solakov, Stela Simeonova, Petya Trifonova, and Irena Alexandrova
Forecasting scenarios validation - case study for the city of Plovdiv and Ruse
- XY468 EGU2011-3505
Licia Faenza and Alberto Michelini
Regression Analysis of MCS Intensity and ground motion spectral accelerations, SA, in Italy
- XY469 EGU2011-4934
James Daniell and Gary Gibson
A review of all Australian Damaging Earthquakes and their contribution to knowledge of earthquake risk in Australia.
- XY470 EGU2011-4948
James Daniell, Bijan Khazai, Aidan Slingsby, and Friedemann Wenzel
A Country-by-Country Building Inventory and a Building Vulnerability Index for use in different Natural Disaster applications
- XY471 EGU2011-6816
Gheorghe Marmureanu, Carmen Ortanza Cioflan, and Alexandru Marmureanu
Local seismic hazard map (microzonation) of Bucharest by using probabilistic and deterministic approaches, linear and nonlinear methods
- XY472 EGU2011-8255
Assaf Klar and Oren Lavan
Liquefaction risk analysis using disaggregation
- XY473 EGU2011-12116
Sara Biolchi, Luca Zini, Paolo Leita, and Petra Malisan
The Geo-morphotypes Map of the Friuli Venezia Giulia Region (NE Italy): a tool for the evaluation of the local seismic amplification
- XY474 EGU2011-12514
Marcello de Michele, Alain Giros, Hervé Yésou, Didier Treinsoutrot, Hélène de Boissezon, Daniel Raucoules, and Claudie Carnec
Kal-Haiti: a database for research, risk management and sustainable reconstruction in Haiti.

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

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

Room: 18

Chairperson: S. Zerbini and D. Mencin

- 15:30–15:45 EGU2011-9002
Erricos C. Pavlis
GGOS Global Geodetic Networks: Their Impact on WEGENER

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

Tuesday, 05 April

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 Smigelski, 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 Wawrzinek, 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 Wawrzinek
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 Bezzeghou, 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 Kiyani, 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 Kiyani, 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 Benmakhlof,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 Kiyani, 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 Huge Hernád Research Team
 Tectonically influenced landscape evolution in the Hernad-valley region (NE Hungary)
- XY756 EGU2011-11246
Martin Schmeier, 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, Evgeni Burov, and Michael Kaban
 Basin evolution in a folding lithosphere. Examples from the Altay-Sayan and northern Tien Shan

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 Funiciello, 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 Courboulex, 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 Children'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 Gymnasium 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

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

ERE2.3/SM3.10 – Geophysical methods applied to geological storage of CO2 (co-organized) – Orals

Convener: Christopher Juhlin | Co-Conveners: Stefan Buske, Roman Pevzner

Room: 3

Chairperson: Chris Juhlin, Roman Pevzner

15:30–15:45 EGU2011-3296

James White, Gareth Williams, and Andy Chadwick
Estimating seismic velocity and thickness of a CO2 layer in the Sleipner plume

15:45–16:00 EGU2011-3769

Alexandra Ivanova, Ursula Lengler, Stefan Lueth, and Christopher Juhlin
Monitoring of CO2 injected at Ketzin using 3D time-lapse seismic data

16:00–16:15 EGU2011-265

Can Yang, Christopher Juhlin, Alexandra Ivanova, and Wenfang Fan
AVO attributes analysis of time-lapse 3D surface seismic data from CO2SINK project site, Ketzin, Germany

16:15–16:30 EGU2011-3835

Matthias Strahser, Said Attia al Hagrey, and Wolfgang Rabbel
Seismic and geoelectric monitoring of CCS - parameter studies in simplified and realistic scenarios

16:30–16:45 EGU2011-4939

Peter Bergmann, Cornelia Schmidt-Hattenberger, Dana Kiessling, Tim Labitzke, and Carsten Rücker
Large-scale DC geoelectric measurements at the CO2 pilot storage Ketzin: Time-lapse inversion and evaluation of imaged volume

16:45–17:00 EGU2011-5609

Ramon Carbonell, Juan Alcalde, David Martí, Alcinoe Calahorrano, Immaculada Palomeras, Puy Ayarza, Arantxa Ugalde, Antonio Villaseñor, and Andrés Pérez-Estaún
Spanish Research Facility for Geological Storage of CO2. (Hontomín, Spain)

ERE2.3/SM3.10 – Geophysical methods applied to geological storage of CO2 (co-organized) – Posters

Convener: Christopher Juhlin | Co-Conveners: Stefan Buske, Roman Pevzner

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

XL130	EGU2011-3276 Marcus Moeller , Cornelia Schmidt-Hattenberger, Stephan Schroeder, and Markus Well Development of a measurement concept for monitoring brine migration processes in saline aquifers
XL131	EGU2011-3301 Gunther Baumann , Jan Henninges, and Marco De Lucia Sensitivity study of pulsed neutron gamma monitoring to evaluate saturation changes for depleted gas field conditions in the context of CO ₂ storage
XL132	EGU2011-4066 Florian Wagner , Marcus Moeller, Cornelia Schmidt-Hattenberger, Thomas Kempka, and Hansruedi Maurer Detection of groundwater salinisation by geoelectric measurements
XL133	EGU2011-4238 Perla Piña , Cristina Biete, Juanjo Ledo, Pilar Queralt, Eduard Roca, and Pedro Ibarra Exploration and characterization of CO ₂ storage sites using electromagnetics methods: results of 2D magnetotelluric study at El Hito (Cuenca), Spain.
XL134	EGU2011-4940 Xènia Ogaya , Pilar Queralt, Juanjo Ledo, and Álex Marcuello 2D magnetotelluric characterization of Hontomín (Spain) CO ₂ pilot plant
XL135	EGU2011-6085 Magdalena Escalas , Pilar Queralt, Juanjo Ledo, and Alex Marcuello Identification of cultural noise sources in magnetotelluric data: estimating polarization attributes in the time-frequency domain using wavelet analysis
XL136	EGU2011-6424 Juan Alcalde , David Martí, Alcinoe Calahorrano, Imma Palomeras, Puy Ayarza, Ramon Carbonell, and Andrés Pérez-Estaún 3D Seismic characterization of the Spanish Research Facility for storage of CO ₂ in Hontomín (Burgos, Spain)
XL137	EGU2011-7648 Alcinoe Calahorrano , David Martí, Juan Alcalde, Imma Palomeras, Puy Ayarza, Ramón Carbonell, and Andrés Pérez-Estaún Technological laboratory for geologic CO ₂ storage in Hontomín (Spain): 2D-3C reflection imaging
XL138	EGU2011-7688 Rita Streich, Michael Becken , and Oliver Ritter Electromagnetic characterization and monitoring of CO ₂ sequestration sites: feasibility studies and first field results from Ketzin, Germany
XL139	EGU2011-10512 Rasmus Rasmussen , Lone Klinkby, and Claus Andersen Feasibility study of time lapse seismic monitoring at planned CO ₂ storage site

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 Porritt, 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?

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 Tilman, 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 constrains 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 Tilman

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 mélange: 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, Huaijun 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 Verlaguet, 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 Podladchikov
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 Tilman, 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 Tilman, 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

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

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

Hall A | Display Time 08:00–19:30

Author in Attendance: 15:30–17:00

Chairperson: n.n.

A48	EGU2011-12798 Petros Koutsovitis , Andreas Magganas, Konstantinos Soukis, and Stylianos Lozios Petrological and structural observations on mylonitized intermediate and felsic rocks within the ophiolitic formation of Vrinena - East Othris, Greece.
A49	EGU2011-5395 Yildirim Dilek and Harald Furnes Magmatic Imprint of Subduction Initiation in the Phanerozoic Ophiolite Record
A50	EGU2011-1024 Tola A. Merza Distribution of PGE and PGM in Chromitite Rocks of the Mawat Ophiolite Complex, Kurdistan Region, NE Iraq
A51	EGU2011-33 Alexander Rodnikov , Natalia Sergeyeva, and Ludmila Zabarinskaya Ancient subduction zone in East Sakhalin (Sea of Okhotsk Region)
A52	EGU2011-13238 Ender Sarifakioğlu , 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 accumulat 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 , Burnsuk 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 pseudotachylites
A73	EGU2011-10190 Alexandre Schubnel , Nadège Hilairet, Julien Gasc, Eva Héripé, 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 Mg ₂ GeO ₄
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-Mathieu 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 Lallemand
Unraveling the behavior of subduction zones interplate seismicity using a global statistical approach
- A79 EGU2011-3192
Tao Li and Andrea Hampel
Preliminary results from numerical subduction zone models investigating the slip behaviour of the plate interface during changes in surface loads
- A80 EGU2011-2776
Giampiero Iaffaldano, Erika Di Giuseppe, Fabio Corbi, Francesca Funiciello, Claudio Faccenna, and Hans-Peter Bunge
Variable mechanical coupling along the Andes and implications for trench curvature, shortening, and topography
- A81 EGU2011-5714
Laurent Husson, Benjamin Guillaume, Francesca Funiciello, Claudio Faccenna, and Leigh Royden
Unravelling topography around subduction zones from laboratory models
- A82 EGU2011-2771
Robert Bialas, **Francesca Funiciello**, and Claudio Faccenna
Subduction and exhumation of continental crust: insights from laboratory models
- A83 EGU2011-5165
David Boutelier, Matthias Rosenau, Thomas Ziegenhagen, Franck Neumann, Onno Oncken, and **Alexander Cruden**
Subduction orogeny along a seaward-concave plate boundary in the Central Andes: insights from 2D numerical and 3D thermo-mechanical laboratory experiments
- A84 EGU2011-1030
Andrew Bottrill, Jeroen van Hunen, and Mark Allen
Can surface topography at continental collision zones be used to detect slab break off?
- A85 EGU2011-7654
Susanne Buiter and Susan Ellis
The role of the initiation phase in numerical subduction models
- A86 EGU2011-4047
Valentina Magni, Jeroen van Hunen, Francesca Funiciello, and Claudio Faccenna
3D numerical models of trench migration for lateral heterogeneous subducting plates
- 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.

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

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

Room: 18

Chairperson: M. Meghraoui and P. Briole

08:30–08:45 EGU2011-12696

Andrew Hooper, David Bekaert, and Mahmut Arikan
Radar interferometry for measuring regional-scale processes

- 08:45–09:00 EGU2011-12096
Ziyadin Cakir, Mustapha Meghraoui, Esra Cetin, Ahmet Akoglu, and Samir Belabbes
Postseismic Hanging-wall Subsidence of the 2003 Zemmouri (Mw=6.9, Algeria) Thrust Earthquake From InSAR Time Series
- 09:00–09:15 EGU2011-11725
Jean-Mathieu Nocquet, Andrea Walpersdorf, François Jouanne, Frédéric Masson, Jean Chéry, and Philippe Vernant
Slow deformation in the Western Alps from a decade of Continuous GPS measurements
- 09:15–09:30 EGU2011-13090
Pierre Briole
Ground deformation monitoring in the Corinth rift laboratory, Greece
- 09:30–09:45 EGU2011-4840
Athanassios Ganas, Kostas Chousianitis, George Drakatos, Marios Papanikolaou, Panagiotis Argyrakis, Maria Kolligri, Panagiota Petrou, Evangelia Batsi, and Christina Tsimi
NOANET: High-rate GPS Network for Seismology and Geodynamics In Greece
- 09:45–10:00 EGU2011-2324
Ugur Dogan, Semih Ergintav, Baki Karaboce, Gokhan Arslan, Ayse Selendi (1), Deniz Oz, Cuneyt Ayd?n (1), Azer Ilgar, Rahsan Cakmak (2), Alpay Belgen, Enver Sad?koglu, Eyup Bilgic, and Ahmet Direnc
Long-term Crustal Deformations Based on Gravity and GPS Measurements (2006 - 2010) in Marmara Region, Turkey

COFFEE BREAK

Chairperson: R. Reilinger and A. Hooper

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

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

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

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

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

- XL184 EGU2011-1743
Hiromi Fujimoto, Motoyuki Kido, and Yukihito Osada
Some improvements in the GPS/Acoustic seafloor positioning
- XL185 EGU2011-2283
Simone Dellagnello and the SCF (INFN-LNF) Team
SCF-Test of LAGEOS and the GNSS for geodesy and navigation applications

- XL186 EGU2011-2540
Vadim Milyukov, Vladimir Zharov, Alexey Mironov, Mark Kaufman, and Dmitry Duev
Development of the Northern Caucasus GPS/GLONASS network: progress during 18 years (observations and results)
- XL187 EGU2011-2818
Yusaku Ohta, Tatsuya Kobayashi, and Satoshi Miura
Long term stabilities and its noise properties of the middle to long baseline RTK-GPS time series for the earthquake size rapid determination
- XL188 EGU2011-3180
Tim Wright, Hua Wang, **Carolina Pagli**, and Matthew Garthwaite
Mapping Tectonic Strain on a Global Scale with InSAR
- XL189 EGU2011-8862
M Meghan Miller
UNAVCO Event response capabilities: Four 2010 earthquakes that advanced hazards science
- XL190 EGU2011-11370
Graham Appleby, Georg Kirchner, Jan McGarry, Carey Noll, Erricos Pavlis, and Michael Pearlman
High Quality Products from Satellite Laser Ranging
- XL191 EGU2011-11708
Luisa Bastos, Machiel Bos, and Rui M.S Fernandes
An investigation of monument stability of GPS stations in Iberia
- XL192 EGU2011-13026
Machiel Bos, Odair Tavares, **Luísa Bastos**, and Rui Ferandes
An online GPS time-series analysis provider at GEODAC
- XL193 EGU2011-227
Haluk Ozener, Asli Dogru, and Bulent Turgut
Contemporary Results of GPS Observations in Ismetpasa Creeping Region of North Anatolian Fault Zone (NAFZ), Turkey
- XL194 EGU2011-365
Radia Mir, Salem Kahlouche, and Said Touam
Crustal deformations using GPS data and the Kalman filter: preliminary results
- XL195 EGU2011-1378
Susanna Zerbini, Claudio Prati, Giovanni Cappello, Maddalena Errico, Fabrizio Novali, and Silvia Scirpoli
Combination of INSAR and GPS to measure ground motions and atmospheric signals
- XL196 EGU2011-2707
M. Ersen Aksoy, Mustapha Meghraoui, Matthieu Ferry, Ziyadin Çak?r, and Gülsen Uçarku?
Short-term and long-term slip rate estimations along the Ganos Fault using stream offsets and paleo-climatic changes (North Anatolian Fault, Turkey)
- XL197 EGU2011-3962
Stathis C. Stiros, Fanis Moschas, Lujia Feng, and Andrew V. Newman
Constraints to the 2008 Patras (Greece) seismic fault: Evidence from historical triangulation and morphotectonic data.
- XL198 EGU2011-4785
Stefano Tinti, Alberto Armigliato, and Gianluca Pagnoni
The role of GPS observations in a Tsunami Early Warning System suitable for near-shore tsunami detection and forecast.
- XL199 EGU2011-5439
Kamil Eren, Turgut Uzel, Engin Gulal, Ibrahim Tiryakioglu, Ahmet Anil Dindar, and Haluk Yilmaz
Tectonic Studies in Turkey Using CORS-TR Observations
- XL200 EGU2011-5777
Marc-Andre Gutscher
Tectonics of the Gibraltar subduction and its relation to recent kinematics
- XL201 EGU2011-6742
Matthias Becker, **Mohamed Saleh**, Mohamed Rashwan, Sayed Mohamed Abd el-Monem, Salah Mahmoud, Hassan Khalil, Awad Omran, and Mostafa Yousef
Regional and local deformation analysis results from the Nile River Valley and its relation to seismicity
- XL202 EGU2011-7357
Mohamed Chlieh, Hernando Tavera, Jean-Mathieu Nocquet, Juan-Carlos Villegas, Hugo Perfettini, and Jean-Philippe Avouac
Interseismic Coupling maps in South America subduction zone as indicator of future large Megathrust Earthquakes
- XL203 EGU2011-8062
Joaquim Sousa, Luisa Bastos, Antonio Ruiz, Ramon Hanssen, and Andy Hooper
Terrain Deformation Monitoring in Granada Basin Area Using Persistent Scatterers Interferometry (PSI)

XL204	EGU2011-9179 Yasser Mahmoud , Frederic Masson, Mustapha Meghraoui, Ziyadin Cakir, Abd elmotaleb Alchalbi, Hakan Yavasoglu, Onder Yonlu, Mohamed Daoud, Semih Ergintav, and Sedat Inan GPS velocity field in SE Turkey and NW Syria derived from 2009 and 2010 measurements
XL205	EGU2011-9721 Yüksel Altiner Another view on the study of Earth's crust deformations applied in Adriatic plate
XL206	EGU2011-12464 Aggeliki Marinou , Xanthos Papanikolaou, Dimitris Paradissis, Dimitris Anastasiou, Vangelis Zacharis, Panayiotis Tzavaras, Kalliopi Papazissi, and Christiana Mitsakaki Estimating of tectonic velocities in the Ionian region.
XL207	EGU2011-11998 Rui Fernandes , José Quembo, Jorge Miranda, and Damien Delvaux Present-Day Kinematics of Mozambique derived from Episodic GPS data
XL208	EGU2011-12149 Robert King , Simon McClusky, Philippe Vernant, Semih Ergintav, Galaktion Hahubia, Fakhreddin Kadirov, Samir Mammadov, Ruben Stepanyan, Tamara Guseva, and Vadim Milyukov New GPS velocity field for the Arabian-Eurasian collision zone
XL209	EGU2011-12720 Dimitris Anastasiou , Aggeliki Marinou, Xanthos Papanikolaou, Vangelis Zacharis, Demitris Paradissis, Kalliopi Papazissi, and Christiana Mitsakaki Deformation studies using GPS data for South Peloponnisos
XL210	EGU2011-12775 Juan Carlos Villegas Lanza , Jean-Mathieu Nocquet, Hernando Tavera, Mohamed Chlieh, and Francis Bondoux A new GPS velocity field from Central Peru to northern Ecuador
XL211	EGU2011-8122 Oliver Boyd , Yuehua Zeng, and Leonardo Ramirez-Guzman Modeling surface deformation in the New Madrid seismic zone
XL212	EGU2011-9330 Tilo Schöne , Julia Illigner, Cornelia Zech, Cecep Subarya, Pak Khafid, Wahyu Pandoe, Imam Mudita, and Roman Galas GNSS in Support of Sea Level Monitoring: Early Warning to Long-Term Corrections
XL213	EGU2011-13129 David Mencin , Selwyn Sacks, Alan Linde, and Michael Gladwin Borehole Strainmeters and Natural Hazards

TS2.1 – Fault zone structure, mechanics and evolution in nature and laboratory (co-listed) – 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 Villemain, 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 Cleven
 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 (co-listed) – 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 Nippes, 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 Nippes, Andreas Rietbrock, Daniel Faulkner, Ernest Rutter, Christian Haberland, and Teresa Teixido
The shallow velocity structure of the Carboneras fault zone from first arrival travelttime 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 Mittempergher, 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

Wednesday, 06 April

GM1.1 – Geophysical monitoring of surface processes (EGU-AGU Geomorphology Symposium) (co-listed) – Orals

Convener: Michael Ellis | Co-Conveners: Arnaud Burtin

Room: 21

Chairperson: Michael Ellis, Arnaud Burtin

15:30–15:35 **Introduction**

15:35–16:05 EGU2011-1759

Dieter Rickenmann, **Jens M. Turowski**, Jonathan B. Laronne, Ronel Barzilai, Helmut Habersack, and Hugo Seitz

Experience from an indirect bedload transport measuring system with geophone sensors

16:05–16:35 EGU2011-5109

Colin Stark and Goran Ekstrom

Landslide Force History inversion: Measuring the dynamics of catastrophic landslides using seismology and satellite remote-sensing

16:35–16:50 EGU2011-838

Aleš Létal, **Libor Burian**, and Anna Smetanová

Mapping erosion-accumulation forms using electromagnetic conductivity

16:50–17:00 **Discussion**

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 Mouhoreau

Kinematics of an orogen and mass transfer during its growth: insights from a new balanced and restored cross-section across the Pyrenees

09:15–09:30 EGU2011-10148

Guilhem Barruol, **Mickael Bonnin**, Helle Pedersen, Goetz Bokemann, and Christel Tiberi

Toroidal asthenospheric flow beneath the western Alps from seismic anisotropy

09:30–09:45 EGU2011-11004

Abdelkrim Aoudia, Alessandra Borghi, Valentina Barletta, Letizia Cannizzaro, Andrea Walpersdorf,

Christof Voelksen, Riccardo Barzaghi, and Roberto Sabadini

Horizontal and Vertical CGPS Velocity Fields and the Active Deformation of the European Alps

09:45–10:00 EGU2011-8317

László Fodor, Frank Horváth, Em? Márton, Kamil Ustaszewski, and Endre Dombrádi

Constraints for the extrusion tectonics and back-arc extension in the Pannonian basin: a state of the art

COFFEE BREAK

Chairperson: Alastair Robertson and Zohar Gvirtzman

10:30–10:45 EGU2011-9446

Gregory Houseman, Graham Stuart, Ben Dando, Yong Ren, Ewald Brückl, Endre Heged?S, Slavica Radovanovic, and Cbp Working Group

Detachment of mantle downwelling beneath the Pannonian Basin caused lithospheric extension?

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

LUNCH BREAK

Chairperson: Zohar Gvirtzman and Uri Schattner

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

Chairperson: Claudio Faccenna and Rob Govers

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

- 16:15–16:30 EGU2011-2070
Zohar Gvirtzman and Josh Steinberg
Arabia's northwest plate boundary prior to its localization along the Dead Sea Transform
- 16:30–16:45 EGU2011-7496
Maud Meijers and the Brigitte Smith, Marc Sosson, Yann Rolland, Cor G. Langereis, Mark J. Dekkers, Douwe J.J. van Hinsbergen, Nuretdin Kaymakci, Demir Altiner, Araig Gregoryan, Ara Avagyan, Carla Muller Team
Constraining the closure of the Neo-Tethys: a paleolatitude reconstruction of the Anatolide-Tauride and South Armenian Blocks
- 16:45–17:00 EGU2011-10081
Thomas François, Evgeni 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 briançonnaise (Western Alps) in Eocene-Oligocene times using thermodynamical modelling and RSCM methods
- XL297 EGU2011-8388
Mathieu Bellanger, Romain Augier, Thierry Baudin, Nicolas Bellahsen, Olivier Beyssac, Charles Gumiaux, and Laurent Jolivet
3D geodynamic evolution of a section between Grenoble and St Jean de Maurienne (External Western Alps)
- XL298 EGU2011-2453
Kevin Norton and **Andrea Hampel**
Postglacial rebound promotes glacial re-advances - a case study from the European Alps
- XL299 EGU2011-4787
Benedetta Andreucci, Leszek Jankowski, Stefano Mazzoli, Peter Reiners, Rafal Szaniawski, and Massimiliano Zattin
The Neogene Evolution of polish Outer Carpathians: relationship between exhumation and deep geodynamic processes as constrained by low temperature thermochronology
- XL300 EGU2011-7262
Dariusz Botor, **István Dunkl**, Marta Rauch, and Hilmar von Eynatten
Timing of tectonic subsidence, accretion and exhumation of the Western Carpathian Flysch byapatite 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
David 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
Gwenaelle 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 Bruestable, Ludger Kueperkoch, Thomas Meier, Wolfgang Friederich and the EGELADOS working group Team
Seismicity of the SE Aegean observed by the temporary EGELADOS network
- XL313 EGU2011-3194
kenan akbayram, aral okay, and ercan ozcan
Paleontological and Stratigraphical Evidence for the Late Cretaceous-Early Tertiary Post-Collisional Tectonism along the Intra-Pontide Suture Zone, Northwestern Turkey
- XL314 EGU2011-6125
Mesut Aygül and Aral Okay
Possible Paleozoic magmatism in the western Sakarya Zone, Biga Peninsula, NW Turkey
- XL315 EGU2011-2384
Firat ?engün, Erdinç Yigitba?, O. Ersin Koralay, and ?.Onur Tunç
Geochemistry and LA-ICPMS zircon geochronology of the pre-Alpine rocks in the Biga Peninsula, NW Anatolia
- XL316 EGU2011-2920
Semih Can Ülgen and Aral I. Okay
Tectonic Setting of the Ophiolitic Melanges South of the Marmara Sea Between the Izmir-Ankara and Intra-Pontide Sutures

- XL317 EGU2011-8957
Heather King, Ezgi Ç?nar, Jeremy Hall, Ali Aksu, Sava? Gurçay, and Günay Çifçi
The Miocene to Recent evolution of the western Antalya Basin and its linkage with the Anaximander Mountains and Isparta Angle
- XL318 EGU2011-10733
Sibel Tatar Erkül and Fuat Erkül
Petrology and petrogenesis of syn-extensional granitoids in the Menderes metamorphic core complex, western Turkey - geodynamic implications for Aegean extension
- XL319 EGU2011-7948
Mehmet Cihat Alcicek and Johan H. ten Veen
Neogene palaeogeography of SW Anatolia: A case study inferred from Tectonic-Sedimentation-Climate interactions in an array of evolving orogen-top basins
- XL320 EGU2011-4256
Ezgi Ç?nar, Heather King, Ali Aksu, Jeremy Hall, Sava? Gurçay, and Günay Çifçi
The Miocene to Recent evolution of an active transform fault at the junction of Hellenic and Cyprus Arcs, eastern Mediterranean: the linkage between the western Antalya Basin and Finike Basin and Anaximander Seamounts
- XL321 EGU2011-10329
kenan akbayram, aral okay, and muharrem sat?r
Evidence for Existence of Strandja Massif along the Intra-Pontide suture zone, between Istanbul and Sakarya Terranes
- XL322 EGU2011-12391
Tamás Mikes, Andreas Mulch, Bora Rojay, Tina Lüdecke, and Fabian Schemmel
Neogene topography and precipitation patterns of the Central Anatolian Plateau
- XL323 EGU2011-10326
Jeroen Bartol, Rob Govers, and Rinus Wortel
The Central Anatolian Plateau: relative timing of uplift and magmatism
- XL324 EGU2011-4998
Bahar Kurtbo?an, Susan Walsh, Tiffany Piercy, 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. Sobishevitch, Yuri P. Masurenkov, Dmitriy V. Likhodeev, Irina N. Pouzich, and Ninel I. Laverova
The modern hydrothermal system of the crust-mantle origin related to fluid-magmatic activity of volcanic centers in Northern Caucasus
- XL330 EGU2011-715
Adam Forte, Eric Cowgill, and Ibrahim Murtuzayev
Plio-Pleistocene Stratigraphy of the Kura Basin, Azerbaijan: Implications for the Formation of the Greater Caucasus and Kura Fold-Thrust Belt
- XL331 EGU2011-348
Fuad Aliyev
Seismic hazard assessment of Azerbaijan territory using new seismological and GPS data
- XL332 EGU2011-7996
Daniel Reif, Kurt Decker, Bernhard Grasemann, and Herwig Peresson
Fracture patterns and generations in the simply folded part of the Zagros fold-and-thrust belt, Northern Iraq
- XL333 EGU2011-7037
Antonio Castro and Mehraj Aghazadeh
Post-collisional monzonitic magmatism from the Zagros hinterland. Implications on lithospheric processes
- XL334 EGU2011-9040
Samuel Angiboust, Philippe Agard, Cees-Jan De Hoog, and Jafar Omrani
Nature and structure of the Sistan « mélange » ophiolitic belt (Eastern Iran): Insights on deep accretionary wedge and subduction channel processes

XL335	EGU2011-10926 Ivone Jiménez-Munt , Manel Fernàndez, Eduard Saura, Jaume Vergés, Daniel Garcia-Castellanos, and Antonio Villaseñor 3D lithospheric structure and regional/residual bouguer anomalies from Arabia-Eurasia collision in Iran
XL336	EGU2011-6657 Giuseppe Pezzo , Simone Atzori, and Andrea Antonioli The 2008 Balochistan sequence and its relationships with the CFF
XL337	EGU2011-2347 Ivan Koulakov High-frequency P and S seismic anomalies in the upper mantle beneath the Alpine-Himalayan orogenic belt reveal mechanisms of the lithosphere recycling due to collision
XL338	EGU2011-8040 Ceri Nunn , Frederik Tilman, 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 Grevemeyer , Ernst Flueh, Iyonne 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 Gülbüm Tanrıcan
Source Modelling of the 2010 Elazığ / 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 (Elazığ, 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 Marcailou, and David Grindorge
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 Tilman
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 comparison between tide gauges, long base tiltmeters and broad band seismometers.

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. Louden, 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
Volkmar 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 Serpentinitised 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 Thimon
 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 Mougel, and Jérôme Dymant 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 Grevermeyer, and Cesar R. Ranero Oceanic Core Complex die off and generation of enhanced mantle upwelling on the Mid-Atlantic Ridge - 22° N

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 Michał 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 Soudi, and Ahmad Sadikhouy
A Receiver Function Study in Kope-Dagh (Iran) Using Short Period Data
- XY677 EGU2011-1414
Benjamin Loidl, Michael Behm, and Hans Thybo
Application of stacking techniques to 3-D wide-angle reflection and refraction data from Southern Norway
- XY678 EGU2011-2521
Peter Hedin, Christopher Juhlin, and Alireza Malehmir
Reflection seismic investigations of the Scandinavian Caledonides to help unravel its orogenic history
- XY679 EGU2011-6966
Piotr Sroda
Models of the seismic crustal anisotropy beneath the East European Craton and adjacent Palaeozoic terranes in Southern Poland - results of 3-D tomographic inversion
- XY680 EGU2011-4967
Fatemeh Sharifi Brojerdi, Christopher Juhlin, Alireza Malehmir, and Mahdieh Dehghannejad
Reflection seismic studies in the Forsmark site, central Sweden
- XY681 EGU2011-11371
Stephan Steuer, Dimitri Savva, Florian Meresse, Dieter Franke, Manuel Pubellier, and Benoit Mouly
Offshore-onshore correlation across Palawan Island, Philippines
- XY682 EGU2011-11142
Reza Entezari and Hamidreza Ramazi
Low Velocity Layer Survey in 3D Seismic Acquisitions (In an oil field, Iran)
- XY683 EGU2011-10519
Pavla Hrubcová 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 Sadikhouy
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

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

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

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

Room: 22

Chairperson: Daisuke Suetsugu, Wolfram Geissler

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

- 11:15–11:30 EGU2011-7871
Thomas Spenkuch, Nicholas Harmon, and Stephen Turnock
 Understanding current induced noise on broadband ocean bottom seismometers using Computational Fluid Dynamics
- 11:30–11:45 EGU2011-5277
Jon Berger, John Orcutt, Neil Trenaman, Tim Richardson, and Gabi Laske
 An autonomously deployed, deep-ocean, broadband seismic network
- 11:45–12:00 EGU2011-1840
Daisuke Suetsugu, Hajime Shiobara, Tatehi Isse, Hiroko Sugioka, Aki Ito, Kiyoshi Baba, Takafumi Kasaya, Noriko Tada, Dominique Reymond, and Jean-Pierre Barriot
 Ocean bottom geophysical observation on the seafloor near the Society hot spot, French Polynesia

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

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

Hall A | Display Time 08:00–19:30

Author in Attendance: 15:30–17:00

Chairperson: Marion Jegen, Karin Sigloch

- A84 EGU2011-2001
Ryota Hino and the Miyagi-Oki Earthquake Research Team
 Continuous offshore seismological and geodetic monitoring in a M 7.5-class megathrust earthquake rupture zone, northeastern Japan forearc
- A85 EGU2011-5263
Kimihiro Mochizuki, Kazuo Nakahigashi, Tomoaki Yamada, Masanao Shinohara, Shin'ichi Sakai, Toshihiko Kanazawa, Kenji Uehira, and Hiroshi Shimizu
 Crustal structure and segmentation of seismicity around the fault boundary of historical great earthquakes along the Nankai Trough, SW Japan, revealed by long-term ocean bottom seismic observation
- A86 EGU2011-12714
Frank Krüger and Johannes Schweitzer
 First results regarding the lithosphere and mantle structure of the oceanic plate between Mohns ridge and the Barents shelf from broadband OBS recordings
- A87 EGU2011-4711
Wolfram Geissler, Flor de Lis Mancilla, Graça Silveira, Luis Matias, and Daniel Stich
 Converted phases from teleseismic and local subcrustal earthquakes observed at broadband ocean bottom seismometers in the Gulf of Cadiz, Eastern Atlantic
- A88 EGU2011-12134
Andreas Schmidt and the Egelados Working Group Team
 Rayleigh wave dispersion analysis using seismic ambient noise data at amphibious networks
- A89 EGU2011-5192
Gabi Laske, Spencer Trinh, Shi Sim, John A Orcutt, and John A Collins
 The Hawaiian PLUME Project: A Broadband Seismic Dataset Provides Glimpses into Ocean and Atmosphere Processes
- A90 EGU2011-10718
Antonio Pazos, Jose Martín Davila, Elisa Buforn, Winfried Hanka, Agustin Udias, Mourad Benzeghoud, and Mimoun Harnafi
 New OBS's deployments in South Spain: FOMAR network and ALBO Observatory.
- A91 EGU2011-5227
 Yozo Hamano, **Hiroko Sugioka**, Takafumi Kasaya, Kiyoshi Baba, Noriko Tada, Hajime Shiobara, Aki Ito, Takehi Isse, and Daisuke Suetsugu
 2010 Chile earthquake tsunami observed by the seafloor geophysical observational network in the French Polynesia area
- A92 EGU2011-4735
Chuanchuan Lu, Tianyao Hao, and Qingyu You
 An OBS survey line across Bohai Bay
- A93 EGU2011-3955
Hiroko Sugioka, Yoshio Fukao, and Toshihiko Kanazawa
 Evidence for infragravity waves-tide resonance in deep oceans
- A94 EGU2011-2588
Mechita Christa Schmidt-Aursch, Wolfram Geissler, and Wilfried Jokat
 The ocean bottom seismometer of the German instrument pool for amphibian seismology (DEPAS)
- A95 EGU2011-9308
 Cansun Guralp, **Horst Rademacher**, and Chris Pearcey
 A new Design for Portable Ocean Bottom Seismometers

A96	EGU2011-2314 Alexey Sukhovich , Anthony Ogé, Frederik Simons, Anne Deschamps, Yann Hello, and Guust Nolet A probabilistic approach to the discrimination of underwater acoustic signals due to P-waves generated by teleseismic events
A97	EGU2011-1877 Qingyu You, Tianyao Hao, and Chuanchuan Lu Broadband Ocean Bottom Seismometer developed by Chinese Academy of Sciences
A98	EGU2011-12908 Harold T. "Bud" Vincent and Frederik J. Simons Son-O-Mermaid: A Green Instrument Platform for the Blue Ocean
A99	EGU2011-3959 Hajime Shiobara , Hisashi Utada, Toshihiko Kanazawa, Kiyoshi Baba, Takehi Isse, Masanao Shinohara, Hiroko Sugioka, Noriko Tada, and Aki Ito Recent developments of ocean bottom seismic and electromagnetic instruments operated by ROV
A100	EGU2011-12525 Katrin Schwabenberg and Martin Engels HYDRA - A new towed electromagnetic seafloor system
A101	EGU2011-2874 Noriko Tada , Kiyoshi Baba, Hisashi Utada, Weerachai Siripunvaraporn, and Makoto Uyeshima Importance of treating seafloor topography in inversion of 3-D marine MT data
A102	EGU2011-2407 Hisayoshi Shimizu, Hisashi Utada, and Kiyoshi Baba Measurements of submarine cable electrical voltages to probe the Earth's deep interior
A103	EGU2011-13340 Sebastian Hölz and Marion Jegen Five years of marine research using EM methods at the IFM-GEOMAR
A104	EGU2011-5457 Hangilro Jang , Hannuree Jang, Ki Ha Lee, and Hee Joon Kim Sensitivity analysis of marine CSEM surveys for detecting a gas-hydrate layer

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-ashenosphere boundary - electromagnetic constraints
09:45–10:00	EGU2011-12312 Jan Vozar , Javier Fullea, and Alan G. Jones Electromagnetic and petro-physical investigations of the lithosphere-asthenosphere boundary in Tibet and Central Europe

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

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

Hall A | Display Time 08:00–19:30

Author in Attendance: 15:30–17:00

Chairperson: Ulrich Achauer

A67	EGU2011-6937 Edward Perchuc , Monika Dec, Michal Malinowski, and Blanka Nita Significant differences between upper mantle models for tectonically active and stable part of North America
A68	EGU2011-766 Ozcan Cakir and Murat Erduran P and S receiver functions used for inverting the one-dimensional upper mantle shear-wave velocities beneath Anatolian Peninsula

A69	EGU2011-5071 Mohammad Yousof , Alan Levander, Max Bezada, and Hans Thybo Structure and extent of the southern African cratons: Integrated images from receiver functions and teleseismic tomography
A70	EGU2011-4739 Mark Muller , Javier Fullea, and Alan Jones Reconciling Electromagnetic, Seismic and Xenolith Constraints on Lithospheric Thickness and Composition of the Kaapvaal Craton, South Africa
A71	EGU2011-8787 Javier Fullea, Mark Muller , Alan Jones, Juan Carlos Afonso, and Sergio Zlotnik Imaging the lithosphere-asthenosphere boundary of southern Africa integrating elevation, surface heat flow, magnetotelluric and petrological data
A72	EGU2011-7739 Britta Wawrzinek and Joachim Ritter Teleseismic S Receiver Function Analysis in Southern Norway
A73	EGU2011-9464 Wolfram Geissler , Horst Kämpf, Zuzana Skácelová, Jaroslava Plomerová, Vladislav Babuška, and Rainer Kind Lithosphere structure of the NE Bohemian Massif (Sudetes) - A teleseismic receiver function study
A74	EGU2011-2410 Jaroslava Plomerova and Vladislav Babuska European LAB constrained from seismic anisotropy
A75	EGU2011-13072 Nicola Piana Agostinetti and Meghan Miller The Lithosphere-Asthenosphere Boundary beneath Italy from S receiver function analysis
A76	EGU2011-13358 Jan-Philipp Schmoldt , Alan G. Jones, Javier Fullea, Mark Muller, Colin Hogg, and Oriol Rosell Novel Magnetotelluric investigation of the lithosphere-asthenosphere boundary beneath the Tajo Basin contrasted with results from seismic and thermal modelling studies - Results of the PICASSO Phase I project in the Iberian Peninsula
A77	EGU2011-8114 David Khoza , Alan Jones, Mark Muller, Sue Webb, and Marion Miensopust The electrical lithosphere in Archean cratons
A78	EGU2011-11541 Gael Burgos , Jean-Paul Montagner, Eric Beucler, Jeannot Trampert, Michael H Ritzwoller, Yann Capdeville, and Nikolai Shapiro Global mapping of Lithosphere Asthenosphere Boundary from surface wave tomography
A79	EGU2011-1996 Lucas Moreira and Michael Friedel Joint inversion of receiver function, surface wave dispersion, and magnetotelluric data for 2D crustal modeling
A80	EGU2011-11683 Eric Mandolisi 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 Alexander 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

SM5.5/AS4.21 – Research and Development in Nuclear Explosion Monitoring (co-organized) – Orals

Convener: Andreas Becker | Co-Conveners: Martin Kalinowski, Lars Ceranna, David Brown, Yan Jia

Room: 27

Chairperson: David Brown

- 13:30–13:45 EGU2011-1736
Martin Kalinowski
Characterisation of Prompt and Delayed Atmospheric Radioactivity Releases from Underground Nuclear Tests at Nevada as a Function of Release Time
- 13:45–14:00 EGU2011-8913
Tormod Kvaerna, David B. Harris, and Steven J. Gibbons
Matched Field Detection of Variable Seismic Sources
- 14:00–14:15 EGU2011-11660
Nicolai Gestermann, Christian Bönnemann, and Lars Ceranna
The National Data Centres Preparedness Exercises (NPE) - Independent performance assessment by simulated CTBT violation scenarios
- 14:15–14:30 EGU2011-12363
John Coyne, Jeffrey Given, Patrick Grenard, Georgios Haralabus, Julien Marty, Pierrick Mialle, and Lassina Zerbo
Infrasound Calibration in the Eastern Mediterranean
- 14:30–14:45 EGU2011-1748
Yefim Gitterman and Rami Hofstetter
GT0 Explosion Sources for IMS Infrasound Calibration, Winter 2011
- 14:45–15:00 EGU2011-5786
Heoncheol Chi, Geunyoung Kim, Il-Young Che, and Jungho Park
Regional Source Scaling of North Korea Underground Explosions: Yield and Burial-Depth Relationship

SM5.5/AS4.21 – Research and Development in Nuclear Explosion Monitoring (co-organized) – Posters

Convener: Andreas Becker | Co-Conveners: Martin Kalinowski, Lars Ceranna, David Brown, Yan Jia

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Martin Kalinowski

- XY715 EGU2011-12486
Andreas Becker, Ole Ross, and Lars Ceranna
 On the potential of public available gridded precipitation re-analysis and monitoring products to access the wet-deposition impact on PTS radionuclide monitoring capability
- XY716 EGU2011-6226
Frederik Postelt and Mika Nikkinen
 The Potential of Radionuclide Ratios for Spectrum Categorization Algorithms
- XY717 EGU2011-3156
Gerhard Wotawa and Ulrike Mitterbauer
 Exercise Scenario and combined Radionuclide/Seismic/Infrasound data analysis in Austria during the Preparedness Exercise 2010 of the National Data Centres
- XY718 EGU2011-4076
Yuri Starovoit and Pavel Martysevich
 Dynamical calibration of MB2000/5 microbarometer widely used in the IMS infrasound Network
- XY719 EGU2011-5547
Pierrick Mialle, Bittner Paulina, Brachet Nicolas, Brown David, and Given Jeffrey
 One Year of Infrasound Event Analysis into the IDC Operations
- XY720 EGU2011-5669
Michael Schoeppner, Martin Kalinowski, Wolfgang Plastino, and Gerhard Wotawa
 Radioxenon analysis methods and atmospheric transport modeling to distinguish anthropogenic from nuclear explosion signals
- XY721 EGU2011-5710
Carsten Riggelsen and Matthias Ohrnberger
 Improving Automatic Detections at IMS Seismic Stations via Machine Learning: Current Status and Future Directions
- XY722 EGU2011-8814
Tormod Kvaerna, Frode Ringdal, and Jeffrey Given
 Application of Detection Probabilities in the IDC Global Phase Association Process
- XY723 EGU2011-9780
Ivan Kitov, Dmitry Bobrov, and John Coyne
 Recurrence curves from the IDC catalog
- XY724 EGU2011-11463
Ole Ross, Gernot Hartmann, Nicolai Gestermann, Thomas Plenefisch, Lars Ceranna, and Christian Bönnemann
 National Data Center Preparedness Exercise 2010: Localization capability of Atmospheric Transport Modelling and analysis of wave-form signals
- XY725 EGU2011-5322
Tae-Kyung Hong and Seunggu Rhee
 Seismic investigation of a South Korean warship sinking and two North Korean nuclear explosions

Thursday, 07 April

GMPV4 – Signals from subsurface mass transport beneath volcanoes (co-listed) – Orals

Convener: Gilberto Saccorotti | Co-Conveners: Eleonora Rivalta, Gareth O'Brien, Roberto Scarpa

Room: 20

Chairperson: n.n.

08:30–08:45 EGU2011-10854

Bo Galle and the NOVAC Team

NOVAC - Network for Observation of Volcanic and Atmospheric Change, an early warning network for volcanic gas emission

08:45–09:00 EGU2011-8382

Torsten Dahm, Tomas Fischer, and Toni Kraft

Using arrival time difference to estimate Poisson ratio variations in the source region of earthquake swarms

09:00–09:15 EGU2011-12427

Chris Bean, Louis De Barros, Ivan Lokmer, Gareth O'Brien, and Shane Murphy

Long Period events: An unreliable indicator of conduit processes?

09:15–09:30 EGU2011-12402

Ivan Lokmer, Gareth O'Brien, Louis De Barros, and Christopher Bean

Mapping of alternative long-period sources into moment-tensor solutions

09:30–09:45 EGU2011-13575

Kristín Vogfjörd, Sigurlaug Hjaltadóttir, and Ragnar Slunga

Seismic Activity and Magma Movements at Icelandic Volcanoes

09:45–10:00 EGU2011-12833

Martin Hensch, Bryndis Brandsdottir, Thora Arnadottir, Sigrun Hreinsdottir, Jon Tarasewicz, and

Berghora Thorbjarnardottir

Intrusive activity beneath Eyjafjallajökull heralding the 2010 flank and summit eruptions: An analysis of earthquake and geodetic data

GMPV4 – Signals from subsurface mass transport beneath volcanoes (co-listed) – Posters

Convener: Gilberto Saccorotti | Co-Conveners: Eleonora Rivalta, Gareth O'Brien, Roberto Scarpa

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

A160 EGU2011-13046

Mauro Palo and **Paola Cusano**

Wavefield analysis of the background seismic signal recorded at Volcán de Colima, Mexico

A161 EGU2011-16

Raul Arámbula-Mendoza, Denis Legrand, Philippe Lesage, Carlos Valdes-Gonzalez, Nick Varley, and **Gabriel Reyes-Davila**

Existence and non existence of correlations between different broad band seismic signals of vulcanian explosions of the 2005 Volcan de Colima, Mexico

A162 EGU2011-5174

Haruhisa Nakamichi, Hiroshi Aoyama, Takeshi Nishimura, Hiroshi Yakiwara, Yusaku Ohta, and Masato Iguchi

Array Analyses of Tremor and Explosion Earthquakes Recorded at Suwanosejima Volcano, Southwest Japan

A163 EGU2011-6557

Luciano Zuccarello, Gilberto Saccorotti, Jean-Philippe Métaxian, Christopher J. Bean, and Domenico Patanè

Array analysis of volcanic tremor during the 2008 Etna eruption.

A164 EGU2011-6515

Marco Aliotta, Andrea Cannata, Carmelo Cassisi, Giuseppe Di Grazia, Placido Montalto, Luciano Zuccarello, and **Domenico Patanè**

Recent developments of seismo-volcanic monitoring systems for magma dynamics investigation and eruptive precursors characterization at Mt. Etna.

A165 EGU2011-6663

Luciano Zuccarello, Daniele Carbone, Andrea Cannata, Giuseppe Di Grazia, Placido Montalto, and Domenico Patanè

Localization of volcanic tremor at Stromboli volcano, using seismic amplitude distribution.

A166 EGU2011-8844

Megan Zecevic, Louis De Barros, Gareth S. O'Brien, Christopher J. Bean, and Florent Brenguier

Analysis of Source Characteristics of LP events at Piton de la Fournaise, La Réunion

A167	EGU2011-8859 Thomas Eyre , Gareth S. O'Brien, Francesca Martini, Christopher J. Bean, Mauricio M. Mora, Javier F. Pacheco, and Gerardo J. Soto Investigating seismic source mechanism at Turrialba volcano, Costa Rica
A168	EGU2011-12326 Gilberto Saccorotti , Micol Todesco, Antonio Pio Rinaldi, and Chiara Montagna Modelling Seismological Observables Associated With The Dynamics of Hydrothermal Systems
A169	EGU2011-12850 Kristin Jonsdottir , Chris Bean, Kristin Vogfjord, and Maurizio Ripepe The source of volcanic tremor investigated during the Eyjafjallajokull eruption 2010
A170	EGU2011-12949 Janire Prudencio , Edoardo Del Pezzo, Araceli García-Yeguas, and Jesús Ibáñez Intrinsic and scattering attenuation image of Teide volcanic complex from an active seismic experiment
A171	EGU2011-13941 Francesco Obrizzo , Ida Aquino, Giuseppe Brandi, Andrea D'Alessandro, Carlo Del Gaudio, Prospero De Martino, Mario Dolce, Ciro Ricco, Vincenzo Sepe, Claudio Serio, and Umberto Tammaro Ischia island: strain field by GPS and Levelling data.
A172	EGU2011-8791 Filippo Greco , Gilda Currenti, Rosalba Napoli, Antonio Pistorio, and Ciro Del Negro Continuous microgravity variations accompanying the onsets of the last flank eruptions at Etna volcano (Italy)
A173	EGU2011-4821 Daniele Carbone and Michael P. Poland First analysis of data from two continuously recording gravimeters at Kilauea Volcano, Hawai'i
A174	EGU2011-4088 Enrique Cabral-Cano , Alejandra Arciniega-Ceballos, Jose Manuel Alvarez-Nieves, Francisco Rodriguez-Valenzuela, Luis Salazar Tlaczani, Hugo Delgado-Granados, and Gabriel Reyes-Dávila Broadband seismic and geodesic deployment in Volcan de Fuego, Colima, in central Mexico
A175	EGU2011-6327 Mario Mattia , Flavio Cannavò, Alessandro Aiuppa, and Ripepe Maurizio I2: Detecting the unrest of an active volcano through High Rate GPS data
A176	EGU2011-12794 Takashi Maeda and Tadashi Takano Further analysis of the 2008 Chaiten eruption toward early warning method for volcanic activity using microwave radiometer
A177	EGU2011-8650 Alessandro Bonaccorso , Andrea Cannata, Rosa Anna Corsaro, Giuseppe Di Grazia, Salvatore Gambino, Filippo Greco, Lucia Miraglia, and Antonio Pistorio Multi-disciplinary investigation on a lava fountain preceding a flank eruption: the 10 May 2008 Etna case
A178	EGU2011-2160 Sonia Calvari , Letizia Spampinato, Alessandro Bonaccorso, Clive Oppenheimer, Eleonora Rivalta, and Enzo Boschi Lava effusion — A slow fuse for paroxysms at Stromboli volcano?
A179	EGU2011-14127 Antonius Ratdomopurbo , C. Widiwidjajanti, A. Baguet, C.M. Lyou, and Chris Newhall Worldwide Database of Volcanic Unrest (WOVOdat): Progress of 2010

NP5.2 – Inverse Problems and Data Assimilation in Geosciences (co-listed) – Orals

Convener: Olivier Talagrand | Co-Conveners: Jeannot Trampert, Peter Jan van Leeuwen

Room: 18

Chairperson: n.n.

08:30–08:45	EGU2011-2054 Pierre Del Moral Particle Methods for nonlinear filtering and uncertainty propagation analysis
08:45–09:00	EGU2011-13157 Robert Miller , Ethan Atkins, Alexandre Chorin, Matthias Morzfeld, Yvette Spitz, and Brad Weir Implementation of the Implicit Particle Filter for a Model of Nearshore Circulation
09:00–09:15	EGU2011-542 Matthias Morzfeld , Ethan Atkins, and Alexandre Chorin Geomagnetic data assimilation with an implicit particle filter into a one-dimensional sparsely observed MHD system
09:15–09:30	EGU2011-3310 Melanie Ades and Peter Jan van Leeuwen Efficient Particle Smoothers for large-dimensional problems

- 09:30–09:45 EGU2011-2383
Marc Bocquet
 Ensemble Kalman filtering without the intrinsic need for inflation
- 09:45–10:00 EGU2011-1594
Victor Shutyaev, Igor Gejadze, and Francois-Xavier Le Dimet
 Optimal solution error covariances in nonlinear problems of variational data assimilation

COFFEE BREAK

Chairperson: n.n.

- 10:30–10:45 EGU2011-7349
Cristina Prates, Stefano Migliorini, Stephen English, and Ed Pavelin
 Remote sounding of temperature and humidity in the presence of clouds
- 10:45–11:00 EGU2011-8394
Anna Teruzzi, Gianpiero Cossarini, Cosimo Solidoro, and Srdjan Dobricic
 A 3Dvar Assimilation Scheme Of Satellite Chlorophyll In A Complex Biogeochemical Model Of The Mediterranean Sea
- 11:00–11:15 EGU2011-2474
Kuan Li, Andrew Jackson, and Philip Livermore
 Progress towards the adjoint dynamo problem
- 11:15–11:30 EGU2011-12776
Muhammad Umer Altaf, Arnold W. Heemink, Martin Verlaan, and Ibrahim hoteit
 Parameter estimation in a large scale Dutch Continental Shelf Model by Proper Orthogonal Decomposition
- 11:30–11:45 EGU2011-12185
Adriana Coman, Gilles Foret, Matthias Beekmann, Maxim Eremenko, Gaelle Dufour, Benjamin Gaubert, Anthony Ung, Gilles Bergametti, and Jean-Marie Flaud
 Assimilation of tropospheric ozone from the IASI instrument using an Ensemble Kalman Filter coupled with the regional Chemical Transport Model (rCTM) CHIMERE
- 11:45–12:00 EGU2011-11048
Heikki Järvinen, Petri Räisänen, Marko Laine, Johanna Tamminen, Pirkka Ollinaho, Alexander Ilin, Erkki Oja, Antti Solonen, and Heikki Haario
 Advanced uncertainty evaluation of climate models and their future climate projections

LUNCH BREAK

Chairperson: n.n.

- 13:30–13:45 EGU2011-9155
Andrew Curtis
 Fast, nonlinear, probabilistic inversion of large Geophysical problems
- 13:45–14:00 EGU2011-2570
Emmanuel Cosme, Jacques Verron, Pierre Brasseur, Jacques Blum, and Didier Auroux
 Smoothing problems in a Bayesian framework and their linear Gaussian solutions
- 14:00–14:15 EGU2011-2501
Alberto Carrassi and Stephane Vannitsem
 Treatment of model error in sequential data assimilation
- 14:15–14:30 EGU2011-7700
Mohamed Jardak and Olivier Talagrand
 Ensemble Variational Assimilation as an ensemble estimator
- 14:30–14:45 EGU2011-11237
Jochen Broecker
 Sensitivity and out-of-sample error in data assimilation
- 14:45–15:00 EGU2011-13286
Ross Hoffman, Karen Cady-Peira, Janusz Eluszkiewicz, Daniel Gombos, Jean-Luc Moncet, Steven Greybush, Kayo Ide, Eugenia Kalnay, Matthew Hoffman, and R. John Wilson
 A strategy to optimize the use of retrievals in data assimilation

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)

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 detritial low temperature thermochronology (AHe and ZHe)
- 09:00–09:15 EGU2011-4731
Massimo Mattei, **Francesca Cifelli**, Giovanni Muttoni, Andrea Zanchi, Fabrizio Berra, Fathollah Mossavvari, and Eshraghi Safar Ali
Neogene block-rotation in Central Iran: evidence from paleomagnetic data
- 09:15–09:30 EGU2011-5884
Kristen Cook, Leigh Royden, Clark Burchfiel, Yuan-Hsi Lee, and John Suppe
Cenozoic cooling history of the southwestern Longmen Shan
- 09:30–09:45 EGU2011-4183
Anne Replumaz, Stéphane Guillot, and Ana Negredo
Indian and Asian continental subduction episodes during collision : tectonic context and slab dynamics

09:45–10:00 EGU2011-1888

Mark Allen and Howard Armstrong

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

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

– Orals

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

Room: 28

Chairperson: Carlos J. Garrido & Manel Fernández

10:30–10:45 EGU2011-13586

Christian Gorini, François Bache, Ferran Estrada, Belén Alonso, Abdellah Ammar, Daniel Aslanian, Damien Do Couto, Antonio Tadeu Dos Reis, Mohammed Elabbassi, Gemma Ercilla, Marga Garcia, Julien Gargani, Pol Guennoc, Laurent Jolivet, Gwenael Jouannic, Agnes Maillard, Ludovic Mocochain, Speranta-Maria Popescu, Marina Rabineau, Jean Loup Rubino, and Jean-Pierre Suc

Messinian Events In The Mediterranean: A review from the offshore basins

10:45–11:00 EGU2011-5693

Jordi Diaz Cusí, Josep Gallart, and Topolberia Seismic Working Group

Seismic anisotropy pattern beneath Iberia and Northern Morocco: first results from the second Topolberia-IberArray deployment

11:00–11:15 EGU2011-3274

Valentí Sallarès, Audrey Gailler, Marc-André Gutscher, Rafael Bartolomé, Jordi Díaz, Eulàlia Gràcia, and David Graindorge

Seismic evidence for the presence of Jurassic oceanic crust in the Gulf of Cádiz (SW Iberia)

11:15–11:30 EGU2011-13558

Juan Carlos Afonso, Javier Fullea, Manel Fernández, Jaume Vergés, and Hermann Zeyen

The lithosphere-sulhlithospheric 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 Greve**meyer, 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 Lebret, Charles Gumiaux, Laurent Jolivet, Christian Gorini, Georges Clauzon, Gwénaël Jouannic, and Ferran Estrada

Impacts of the Messinian Salinity Crisis on the Spanish margin of the Alboran Sea, Western Mediterranean

XL349 EGU2011-481

Youssef Timoulati

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 Å 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. Benmakhlof, 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 Azdimousa, 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 Gerville A Late Oligocene supra-subduction setting for the Westernmost Mediterranean revealed by andesite-derived mantle pyroxenite in the Ronda peridotite (S Spain)
XL373	EGU2011-12655 Elisabetta Rampone, Reinoud L.M. Vissers, and Alberto Zanetti Evidence for silica-saturated melts in the Tallante mantle xenoliths (SE Spain): Inferences on their origin and geodynamic significance
XL374	EGU2011-9295 Antonio Álvarez-Valero, Leo Kriegsman , Youssef Driouch, Mohamed Dahire, Ali Moukadiri, Ahmed Ntarmouchant, Stéphanie Duchene, and Jean-Luc Severac Xenoliths as constraints on crustal architecture and melting levels in southern Spain and northern Morocco

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

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

Room: 22

Chairperson: T.H. Torsvik and C. Gaina

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

COFFEE BREAK

Chairperson: R. Van der Voo and A. McNamara

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

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

Convener: Mourad Bezzeghoud | Co-Conveners: Elisa Buorn

Room: 26

Chairperson: Mourad Bezzeghoud and Elisa Buorn

- 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 Timouali 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 developements and Results on Seismotectonics (co-organized) – Posters

Convener: Mourad Bezzeghoud | Co-Conveners: Elisa Buorn

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?l?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, Birsen 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 Galloovic, 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

SM2.2 – Earthquake source processes: source parameter scaling relations, and outstanding issues – Orals

Convener: Rebecca M. Harrington | Co-Conveners: Grzegorz Kwiatek, Joachim Ritter

Room: 26

Chairperson: Rebecca Harrington and Grzegorz Kwiatek

- 10:30–10:45 EGU2011-4121
Danilo Galluzzo, Mario La Rocca, Edoardo Del Pezzo, and Roberto Scarpa
 Source scaling of aftershocks following the 2009 Mw 6.3 L'Aquila earthquake (Central Italy) recorded at an underground array
- 10:45–11:00 EGU2011-6608
Aldo Zollo, Antonella Orefice, and Vincenzo Convertito
 Scaling Relationships for Earthquake Source Parameters Down to Decametric Fracture Lengths
- 11:00–11:15 EGU2011-10900
Grzegorz Kwiatek, Katrin Plenkers, and Georg Dresen
 Static and dynamic scaling relations from cm- to m-scale: A case study from in-situ geomechanical laboratory at Mponeng deep gold mine, South Africa
- 11:15–11:30 EGU2011-5506
Rebecca Harrington and Philip Benson
 Empirical Green's Functions Analysis of Volcanic Hybrid Earthquakes Simulated in the Laboratory

11:30–11:45 EGU2011-9987

Stella Pytharouli, Rebecca J. Lunn, Rachel E. Abercrombie, and Aderson F. do Nascimento
Are existing models adequate to describe the source dimensions of small, shallow earthquakes?

11:45–12:00 EGU2011-13237

Tomas Fischer, Josef Horalek, Hanka Cermakova, and Jan Michalek
Does stress drop of small earthquakes depend on non-shear components?

SM2.2 – Earthquake source processes: source parameter scaling relations, and outstanding issues – Posters

Convener: Rebecca M. Harrington | Co-Conveners: Grzegorz Kwiatak, Joachim Ritter

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Joachim Ritter

XY703 EGU2011-6848

Bálint Süle and Zoltán Wéber

Spectral estimation of source parameters for local earthquakes in the Pannonian basin

XY704 EGU2011-9603

Anna Dobrynina

Baikal rift earthquakes source parameter scaling relations

XY705 EGU2011-6348

Jan Michálek, Hana ?ermáková, Josef Horálek, and Tomáš Fischer

Static source parameters of the West Bohemia/Vogtland earthquake swarms

XY706 EGU2011-450

Hossein Hassani and Mehdi Zare

A Comparison of ML/MW Relationship for Natural Earthquakes and Mining Explosions in Tehran Region

XY707 EGU2011-8068

Marco Walter and Manfred Joswig

The influence of natural and anthropogenic noise to seismic detection capacities of events $M_I < 0.0$

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 Reface, 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 Staufen (Germany)

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

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

Room: 22

Chairperson: Paul Tackley and Fumiko Tajima

13:30–13:45 EGU2011-3744

Ilaria Mosca, Laura Cobden, Carolina Lithgow-Bertelloni, Arwen Deuss, Jeroen Ritsema, Lars Stixrude, and Jeannot Trampert

Thermo-chemical structures in the lower mantle from body wave, surface wave and normal-mode data

13:45–14:00 EGU2011-9081

Ulrich Hansen and Sabine Dude

Dynamical mechanisms behind Reservoir formation

14:00–14:15 EGU2011-5444

Andreas Stracke, Jon E. Snow, Eric Hellebrand, Anette von der Handt, Bernard Bourdon, Karin Birbaum, and Detlef Günther

Extreme mantle depletion identified by Hf isotope ratios in abyssal peridotites

14:15–14:30 EGU2011-8731

Frédéric Deschamps, **Paul Tackley**, and Edouard Kaminski

Deep mantle primitive reservoirs as a partial source of Ocean Island Basalt

14:30–14:45 EGU2011-13626

Finlay Stuart

Helium isotope evolution of the Iceland plume

14:45–15:00 EGU2011-8312

Cai Durbin, M. Hosein Shahnas, William R. Peltier, and John H. Woodhouse

Mantle Convection Models Constrained by Seismic Tomography

Chairperson: Fumiko Tajima and Paul Tackley

15:30–15:45 EGU2011-4592

Tobias Rolf and Paul Tackley

Stability of Archaean cratons and their influence on the global strength of the lithosphere

15:45–16:00 EGU2011-3652

J. Huw Davies and Martin Wolstencroft

What role have phase changes played in mantle evolution?

16:00–16:15 EGU2011-12012

David A. Thompson, George Helffrich, Ian D. Bastow, and J.-Michael Kendall

Limits on lateral thermal and chemical gradients under the Canadian Shield

16:15–16:30 EGU2011-13310

Michael Kendall, Andy Nowacki, James Wookey, and Asher Pemberton

Transition zone anisotropy near regions of subduction

16:30–16:45 EGU2011-6157

Luciana Bonatto, Martin Schimmel, Josep Gallart, and José Morales

Mapping the Upper Mantle Transition Zone beneath the Iberian Peninsula and North Africa

16:45–17:00 EGU2011-6825

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

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

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

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

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Jon Mound and Hauke Marquardt

A69 EGU2011-692

Stefanie Hempel, Christine Thomas, and Razvan Caracas

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

A70 EGU2011-9238

Dmitry Krasnoshchekov and Vladimir Ovtchinnikov

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

A71 EGU2011-12930

Daniele Antonangeli, Julien Siebert, Chantel M. Aracne, Daniel L. Farber, Alexey Bosak, Moritz Hoesch,

Michael Krisch, Frederick J. Ryerson, Guillaume Fiquet, and James Badro

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

A72	EGU2011-12508 Hauke Marquardt , Arianna Gleason, Katharina Marquardt, Sergio Speziale, Lowell Miyagi, Gregor Neusser, Hans-Rudolf Wenk, and Raymond Jeanloz Elastic Properties of Nano-crystalline MgO Powder to High Pressures by Brillouin Light Scattering
A73	EGU2011-2925 Junkee Rhie , Tae-Gyu Yee, and Seongryong Kim The velocity structure of the core constrained by joint analysis of differential travel times and differential ray parameters of PKP(BC)-PKP(DF)
A74	EGU2011-6715 Jon Mound Inter-Annual Torsional Oscillations and Angular Momentum Exchange
A75	EGU2011-8847 Luis Silva Core flow estimates and inner-core growth patterns
A76	EGU2011-11517 Tobias Trümper , Martin Breuer, and Ulrich Hansen Numerical simulations of thermo-chemically driven convection and geodynamics
A77	EGU2011-12565 Julien Roch , Eric Clévétré, Geneviève Roult, Jean Paul Montagner, and Philippe Lognonné Deep structure of the Earth : from the lower mantle to the inner core

NH4.3/SM5.1 – Seismic hazard evaluation, precursory phenomena and reliability of prediction (co-organized) – Orals

Convener: Michael E. Contadakis | Co-Conveners: Jochen Zschau, Thomas Xenos, Pier Francesco Biagi

Room: 11

Chairperson: Michael Contadakis

15:30–15:45	EGU2011-4540 Gerassimos Papadopoulos , Boris Di Fiore, and George Minadakis Short-Term Foreshocks and the Prediction of Mainshock in the Aftermath of L'Aquila Earthquake: A Global Review
15:45–16:00	EGU2011-9105 Sergey Pulinets and Dimitar Ouzounov Lithosphere-Atmosphere-Ionosphere Coupling (LAIC) model - an unified concept for earthquake precursors validation
16:00–16:15	EGU2011-11626 Valerio Tramutoli and the PRE-EARTHQUAKES Team PRE-EARTHQUAKES, an European FP7 Project for Integrating Observations and Knowledge for Earthquake Precursors Studies: preliminary results and perspectives.
16:15–16:30	EGU2011-3160 m.e. Contadakis, c. Skeberis, d.t. Xenos, t.d. Xenos , and d.t. Arabelos Normalization and processing of VLF signals for the detection of seismic-ionospheric precursor phenomena using the Empirical Mode Decomposition Method and Neural Networks.
16:30–16:45	EGU2011-5598 Katsumi Hattori , Simpei Kon, and Masahide Nishihashi Ionospheric anomalies possibly associated with M ≥ 6.0 Earthquakes in Japan area : Statistical analysis during 1998-2010 and some case studies
16:45–17:00	EGU2011-1744 Gulum Tanircan , Nino Tsereteli, Etibar Garaveliev, Bilge Siyahi, Otar Varazanashvili, Tahir Mammadli, Qurban Yethirmishli, Tamaz Cehlidze, Arif Axundov, and Erdal ?afak Seismic Hazard Assessment for Southern Caucasus-Eastern Turkey Energy Corridor

NH4.3/SM5.1 – Seismic hazard evaluation, precursory phenomena and reliability of prediction (co-organized) – Posters

Convener: Michael E. Contadakis | Co-Conveners: Jochen Zschau, Thomas Xenos, Pier Francesco Biagi

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Michael Contadakis, Thomas Xenos, Jochen Zschau, Pier Francesco Biagi

XY426	EGU2011-185 Savas Karabulut and Oguz Ozel Determination of Local Site Effect and 3-D Shear Wave Velocity Structure for City of Istanbul
XY427	EGU2011-1184 Ioan Ionescu and Darko Volkov Could we detect earthquake nucleation from surface observations ?

- XY428 EGU2011-2154
Maria-Dolors Martinez and Xavier Lana
 Patterns of the seismic generation rate detected by the Southern California seismic network (SCSN).
- XY429 EGU2011-2249
 Elena V. Liperovskaya, Alexandra S. Silina, Victor A. Liperovsky, and **Claudia-Veronika Meister**
 Midnight variations of Es-spread in the ionosphere before earthquakes
- XY430 EGU2011-2387
Maling Yang, Daqing Chen, Yuanmin Huang, and Huiling Gong
 Abnormal gas wells' pressure before and after the Wenchuan earthquake of Zhongba gas field in Sichuan province
- XY431 EGU2011-3075
Renata Gazdova, Oldrich Novotny, Jiri Malek, Jan Valenta, Milan Broz, and Petr Kolinsky
 Groundwater level variations in the seismo-active region of western Bohemia in the years 2005-2010
- XY432 EGU2011-3852
Tatyana A. Smaglichenko, Andrey V. Gorbatikov, Alexander V. Smaglichenko, and Aleksey V. Nikolaev
 The role of seismic tomography for the Earthquake Early Warning system
- XY433 EGU2011-5372
Sin Mei Ng
 Earthquake intensity scale problem in Taiwan as revealed by damaging events in the past decade
- XY434 EGU2011-5807
Andrea Antonioli, Simone Atzori, and Giuseppe Pezzo
 Coseismic stress evolution, different patterns from different slip distributions
- XY435 EGU2011-6290
Elias Tsiapas, Despina Soumelidou, and Christos Tsiapas
 EARTHQUAKES - VOLCANOES(Causes - Forecast - Counteraction)
- XY436 EGU2011-6517
 Marco Amanti, Giuseppe Di Capua, Silvia Peppoloni, **Carlo Cipolloni**, Giovanni Conte, Danilo Avola, and Andrea Del Buono
 The SEE-GeoForm WebGIS: a tool for seismic data and hazard analysis
- XY437 EGU2011-6639
Margarita Moisidi, Derek Rust, Stephen Kershaw, Pantelis Soupios, Filippos Vallianatos, and Sabatino Piscitelli
 Geological and geophysical evidences for seismic hazard assessment of northwestern and southwestern Crete (Greece)
- XY438 EGU2011-7875
Tensay Berhe and Wei Wu
 Effect of valley shape on the seismic response of earthfill dam - a 3D numerical parametric study
- XY439 EGU2011-10588
 Demetrios Pliakis, Taxiarchis Papakostas, and **Filippos Vallianatos**
 A first principles approach to understand the physics of precursory accelerating seismicity
- XY440 EGU2011-10645
Filippos Vallianatos, Alexis Cartwright-Taylor, and Peter Sammonds
 A spatiotemporal non-extensive approach to investigate seismicity of 6th April 2009, ML5.8, L'Aquila (Central Italy) earthquake.
- XY441 EGU2011-10690
Filippos Vallianatos, George Michas, George Papadakis, and Peter Sammonds
 A non extensive statistical physics view to the June 1995, Aigion earthquake (M6.2) aftershock sequence (West Corinth rift).
- XY442 EGU2011-10723
Filippos Vallianatos and Peter Sammonds
 Non-extensive thermodynamics applied to global seismicity before and after the Sumatran mega-earthquake.
- XY443 EGU2011-10810
Filippos Vallianatos, George Hloupis, and Ilias Papadopoulos
 The Hellenic Seismological Network of Crete (HSNC): operation results and review of real time processing schemes. A contribution to seismic Hazard evaluation.

NH4.1/SM5.8 – Seismo electro-magnetic phenomena and earthquakes precursors (co-organized) – Orals

Convener: Pier Francesco Biagi | Co-Conveners: Masashi Hayakawa, Oleg Molchanov, Tommaso Maggiapinto

Room: 10

Chairperson: Pier Francesco Biagi

08:30–08:45 EGU2011-2358

Michel Parrot

Analysis of the DEMETER data related to seismic activity bringing Chile area into focus

- 08:45–09:00 EGU2011-13143
Jan Blecki, Michel Parrot, Ma?gorzata Ko?cieszka, and Roman Wronowski
 Statistical analysis of the ELF turbulence registered in the ionosphere over the regions of the strong earthquakes by DEMETER satellite
- 09:00–09:15 EGU2011-10473
Mohammed Y. Boudjada, Konrad Schwingenschuh, Emad Al-Haddad, Michel Parrot, Patrick Galopeau, Bruno Besser, Günter Stangl, and Wolfgang Voller
 Effect of solar and geomagnetic activities on the reception of sub-ionospheric VLF transmitter signals by DEMETER micro-satellite
- 09:15–09:30 EGU2011-1511
Masashi Hayakawa, Yasushi Kasahara, Takashi Nakamura, Yasuhide Hobara, Shinichirou Asai, and Toru Inaba
 Observation of Doppler shifts of subionospheric VLF/LF signals and the seismic effect
- 09:30–09:45 EGU2011-1292
Valery Korepanov, Fedir Dudkin, Masashi Hayakawa, and Olha Leontyeva
 Local lithospheric magnetic activity before selected earthquakes in Japan
- 09:45–10:00 EGU2011-5195
Dimitar Ouzounov, Katsumi Hattori, Sergey Pulinets, Tiger Liu, Michel Parrot, Menas Kafatos, Patrick Taylor, Frank Yang, Kaori Oyama, and Shimpei Kon
 Integrated Sensing, Analysis and Validation of Atmospheric Signals Associated with Major Earthquakes

COFFEE BREAK

Chairperson: Masashi Hayakawa/Tommaso Maggipinto

- 10:30–10:45 EGU2011-1772
Oleg Molchanov and Alexander Schekotov
 To predict something is better than nothing
- 10:45–11:00 EGU2011-11575
 Mariano Lisi, Carolina Filizzola, Nicola Genzano, Nicola Pergola, and **Valerio Tramutoli**
 Reducing atmospheric effects on RST analysis by exploiting TIR split windows channels on MSG/SEVIRI satellite sensor: the case of Abruzzo earthquake (April 6, 2009; MI-5.8)
- 11:00–11:15 EGU2011-4777
Francesco Mancini and Angelo Galeandro
 Assessing the ionospheric Total Electron Content (TEC) from GPS measurements as a possible precursor of high magnitude earthquakes
- 11:15–11:30 EGU2011-5987
Gerald Duma, Friedemann Freund, Max Lazarus, Taha Rabeh, and Robert Dahlgren
 New results on the solar impact on global seismicity
- 11:30–11:45 EGU2011-11007
Konrad Schwingenschuh, Alexander Rozhnoi, Maria Solovieva, Massimo Vellante, Umberto Villante, Petko Nenovski, Victor Wesztergom, Pier Francesco Biagi and the SEM Team
 Coordinated ground-based ULF and sub-ionospheric VLF seismo-electromagnetic investigations in Europe
- 11:45–12:00 EGU2011-4379
Yasuhide Hobara, Tasku Kamoi, and Masashi Hayakawa
 Statistical property of the ULF magnetic emissions in relation with Izu Island earthquake swarm in Japan

NH4.1/SM5.8 – Seismo electro-magnetic phenomena and earthquakes precursors (co-organized) – Posters

Convener: Pier Francesco Biagi | Co-Conveners: Masashi Hayakawa, Oleg Molchanov, Tommaso Maggipinto

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Pier Francesco Biagi/Masashi Hayakawa/Oleg Molchanov/Tommaso Maggipinto

- XY403 EGU2011-235
Alexander Rozhnoi, Maria Solovieva, Pier Francesco Biagi, Konrad Schwingenschuh, and Masashi Hayakawa
 LF signal spectrum analysis for strong earthquakes
- XY404 EGU2011-13698
Masha Solovieva, Alexander Rozhnoi, Michel Parrot, Konrad Schwingenschuh, Masashi Hayakawa, and Pier Francesco Biagi
 Correlation of VLF/LF variations from ground and satellite observations with magnetic activity and outer-zone particles

- XY405 EGU2011-264
Pier Francesco Biagi, Flavia Righetti, Tommaso Maggipinto, Anita Ermini, Iren Moldovan, Adrian Moldovan, Aydin Buyukasarac, Hugo da Silva, Mourad Bezzeghoud, and Michael Contadakis
Analysis of the LF data collected by the European radio network during one year
- XY406 EGU2011-7444
Hugo Gonçalves da Silva, Cláudia Serrano, António Domingos Heitor Silva Reis, Mourad Bezzeghoud, Rui Namorado Rosa, José Fernando Borges, Bento Caldeira, Mouhaydine Tlemçani, and Pier Francesco Biagi
Influence of seismic activity in the atmospheric electrical field in Lisbon (Portugal) from 1961 until 1991
- XY407 EGU2011-2376
Iren-Adelina Moldovan, Adrian Moldovan, Pier Francesco Biagi, Constantin Ionescu, Anica Otilia Placinta, Tommaso Maggipinto, Konrad Schwingenschuh, and Mohammed Y. Boudjada
Present status and preliminary results obtained by the Romanian VLF/LF radio monitoring system as part of the INFREP European Network
- XY408 EGU2011-6669
Iren-Adelina Moldovan, Constantin Ionescu, Anica Otilia Placinta, Angela Constantin, Emilia Popescu, and Adrian Septimiu Moldovan
Geomagnetic anomalies recorded at Muntele Rosu (Romania) seismic observatory and their statistical correlation with earthquake occurrence and solar magnetic storms
- XY409 EGU2011-2166
Palangio Paolo Giovanni and Di Lorenzo Cinzia
Transient electromagnetic phenomena associated with L'Aquila earthquake
- XY410 EGU2011-2602
Palangio Paolo Giovanni and Di Lorenzo Cinzia
Eulerian component of secular variation associated with the Mw 6.3 L'Aquila earthquake sequence of April 2009
- XY411 EGU2011-10502
Angelo De Santis, Gianfranco Cianchini, Cinzia Di Lorenzo, Domenico Di Mauro, Manuele Di Persio, Barbara Iezzi, Paolo Palangio, Enkelejda Qamili, and Lixin Wu
Analysis of the geomagnetic field transfer functions during the 2009 L'Aquila seismic sequence
- XY412 EGU2011-1510
Masashi Hayakawa
On the fluctuation spectra of seismo-electromagnetic phenomena
- XY413 EGU2011-2713
Florian Fülbert, **Claudia-Veronika Meister**, Steffen Hauf, Uwe Bonnes, Peter Dziendziel, and Dieter H.H. Hoffmann
The Darmstadt VLF radiophysical station VADAR for the detection of possible earthquake precursors
- XY414 EGU2011-12199
Claudia-Veronika Meister, Benjamin Mayer, and Dieter H.H. Hoffmann
Modeling of ionospheric electromagnetic earthquake precursors
- XY415 EGU2011-10107
Gustav Prates, Konrad Schwingenschuh, Hans Eichelberger, Manfred Stachel, Werner Magnes, Massimo Vellante, Umberto Villante, and Petko Nenovski
Epicenter location determination by an ULF magnetic field polarization technique analyzing the 2009 L'Aquila earthquake
- XY416 EGU2011-13608
Panagiotis Kyriazis, Ilias Stavrakas, Cimon Anastasiadis, Dimos Triantis, and John Stonham
Mechanically stimulated electric signals modelled as extreme micro-current distributions
- XY417 EGU2011-6469
Dimos Triantis, Cimon Anastasiadis, Ilias Stavrakas, and Filippou Vallianatos
Electric signal emissions from rock samples used as failure predictors
- XY418 EGU2011-13528
Anatoliy Kotsarenko, Vladimir Grimalsky, **Vsevolod Yutsis**, Roman Perez Enriquez, Svetlana Koshevaya, Gustavo Urquiza Beltran, Luis Ivan Medina Perez, Carlos Valdes Gonzales, and Ana Gabriela Bravo Osuna
Final results of the Radon concentration study in volcano Popocatepetl area, Mexico, Dec 2007 - Dec 2009
- XY419 EGU2011-9666
Alejandro Ramírez-Rojas, Luciano Telesca, and Fernando Angulo-Brown
Study of entropy in the natural time domain of geoelectrical time series monitored in Guerrero-Oaxaca, México.
- XY420 EGU2011-375
Ioseb Turazashvili and Nino Kachakhidze
Problem of Identity of Acoustic and Electromagnetic Emission Area
- XY421 EGU2011-590
Kenichi Yamazaki
Variations in the magnetic field arising from the propagation of teleseismic waves in magnetized crust with finite conductivity

- XY422 EGU2011-800
Vikram Singh and Birbal Singh
Ground observation of electromagnetic emissions related to clusters of earthquakes
- XY423 EGU2011-2075
Yury Yasyukevich, Yury Bashkuev, Mikhail Dembelov, Vladimir Kovalenko, Vladimir Kurkin, Andrey Loukhnev, Natalia Perevalova, Ravid Rakhmatulin, Vladimir Sankov, Gelii Zhrebtssov, Viktor Aleshkov, Sergey Ashurkov, Darima Buyanova, Yury Lipko, Sergey Molodykh, Idam Naguslaeva, Olga Pirog, Nelly Polekh, and Sergey Voeykov
Coordinated measurements of ionospheric, electromagnetic and geodynamic parameters in the Baikal rift system in summer of 2009 and 2010
- XY424 EGU2011-6371
Tatsuo Onishi, Jean-Jacques Berthelier, and Masashi Kamogawa
Critical analysis of plasma wave disturbances over the Sichuan region in a period encompassing the May 12, 2008 EQ
- XY425 EGU2011-13610
Victor Novikov
Towards Earthquake Prediction Based on Electromagnetic Triggering Phenomena

Friday, 08 April

NP5.2 – Inverse Problems and Data Assimilation in Geosciences (co-listed) – Posters

Convener: Olivier Talagrand | Co-Conveners: Jeannot Trampert, Peter Jan van Leeuwen

Halls X/Y | Display Time 08:00–17:00

Author in Attendance: 10:30–12:00

Chairperson: n.n.

- XY335 EGU2011-541
Ethan Atkins, Matthias Morzfeld, and Alexandre Chorin
 Implicit Particle Filters: a Numerical Case Study Using the Lorenz Attractor
- XY336 EGU2011-874
Brad Weir, Robert Miller, and Yvette Spitz
 Novel particle filter approaches to parameter estimation for ecological models
- XY337 EGU2011-1563
Valery Agoshkov
 Method of "fictitious controls" and solution of inverse problems of the geophysical hydrodynamics using variational data assimilation
- XY338 EGU2011-3429
Lin Wu, Marc Bocquet, and Frédéric Chevallier
 Bayesian design of control space in inverse modelling: Application to mesoscale carbon dioxide inversion
- XY339 EGU2011-7939
Helaine Furtado, Haroldo Fraga de Campos Velho, and Elbert E N Macau
 Data assimilation by variational method in partial differential equations
- XY340 EGU2011-676
 Claire Chauvin, François-Xavier Le Dimet, **Maelle Nodet**, Innocent Souopgui, Olivier Titaud, and Arthur Vidard
 Assimilation of Lagrangian Data in a Variational framework
- XY341 EGU2011-8078
Aimei Shao and Chongjian Qiu
 Comparative experiments on the effect of several forms of background error covariance on 3DVar
- XY342 EGU2011-3422
 Mohamed Berrada, **Julien Brajard**, Charles Deltel, Michel Crépon, Fouad Badran, and Sylvie Thiria
 Variational data assimilation in NEMO using YAO.
- XY343 EGU2011-10424
Houda Yahi, Sylvie Thiria, Michel Crepon, Alain Weill, and Richard Santer
 Atmospheric particulate matter (PM10) estimation from optical ground measurements
- XY344 EGU2011-909
Dominik Jacques and Isztar Zawadzki
 Efficient implementation of inverse variance-covariance matrices in variational data assimilation systems
- XY345 EGU2011-3404
Emmanuel Kpemlie, Emmanuel Cosme, Nicolas Freychet, Jean-Michel Brankart, and Pierre Brasseur
 Adaptive parameterisation of error statistics in ensemble or reduced order square root filters
- XY346 EGU2011-1039
Georg Gottwald, Lewis Mitchell, and Sebastian Reich
 A variance limiting Kalman filter: Controlling overestimation of error covariance in ensemble Kalman filters with sparse observations
- XY347 EGU2011-4278
 Dmitri Kondrashov, Yuri Shprits, and **Michael Ghil**
 Split-Operator Kalman Filter as an efficient data assimilation method for the radiation belts
- XY348 EGU2011-9719
Genta Ueno
 An iterative algorithm for estimating the observation error covariance matrix for ensemble-based filters
- XY349 EGU2011-3880
Juan Ruiz and Manuel Pulido
 GCM Parameter estimation based on LETKF
- XY350 EGU2011-6803
Tijana Janjic, Lars Nerger, Alberta Albertella, Jens Schroeter, and Sergey Skachko
 Domain localization in ensemble based Kalman filter algorithms
- XY351 EGU2011-3338
Lars Nerger, Tijana Janjic, Jens Schroeter, and Wolfgang Hiller
 On the relation of the SEIK and ETKF filter methods

- XY352 EGU2011-1118
Anna Leonenko, Peter North, and Sietze Los
Information Measures of Divergence, M-estimates and Minimum Contrast Estimation Approach and Its Application to Biophysical Parameter Estimation.
- XY353 EGU2011-13135
Pierre P.F.J. Lermusiaux, Themistoklis P. Sapsis, Thomas Sondergaard, and Mattheus P. Ueckermann
Partial Differential Equations for Ocean Uncertainty Prediction and Nonlinear Data Assimilation
- XY354 EGU2011-13245
Matthias Grzeschik, Thomas Wöhling, and Thomas Schwitalla
Contribution of different observation types to data assimilation
- XY355 EGU2011-7714
Haroldo Fraga de Campos Velho, Fabricio Harter, Rosangela Rosangela Cintra, and Helaine Helaine Furtado
Some experiments with artificial neural networks in data assimilation
- XY356 EGU2011-6708
Andrea Storto, Srdjan Dobricic, Simona Masina, Pierluigi Di Pietro, Ida Russo, and Antonio Navarra
The INGV/CMCC global ocean variational analysis system: applications, developments and perspectives
- XY357 EGU2011-1490
Eugene Parmuzin, Valery Agoshkov, and Natalia Zakharova
Study and numerical solution of the inverse and variational data assimilation problem on finding the heat flux in the ocean dynamics model
- XY358 EGU2011-280
Natalia Zakharova, Valery Agoshkov, and Evgeny Parmuzin
Inverse problem on the reconstruction of the vertical heat exchange coefficient in a model of World Ocean hydrodynamics
- XY359 EGU2011-276
Anna Semenenko, Valery Agoshkov, and Sergey Kostrikin
Inverse and "velocity image" assimilation problems for a model of magnetic hydrodynamics
- XY360 EGU2011-12843
Valery Yudin
Aspects of the resolution-sensitive chemical data assimilation in the upper troposphere and lower stratosphere
- XY361 EGU2011-6106
Svetlana Dubinkina, Hugues Goosse, Yoann Sallaz-Damaz, Elisabeth Crespin, and Michel Crucifix
Testing a particle filter to reconstruct climate changes over the past centuries
- XY362 EGU2011-6919
Zoltán Bus, Zoltán Wéber, and Gyöngyvér Szanyi
A genetic algorithm based focal parameter and seismic velocity estimation procedure
- XY363 EGU2011-12585
Bento Caldeira, **Vladimir Bushenkov**, José Borges, Gueorgui Smirnov, and Mourad Bezzeghouad
On the determination of space-time slip distribution with a regularized constraints inversion algorithm.
- XY364 EGU2011-8066
Elsa Stephan, Jean Chery, Bijan Mohammadi, Michel Peyret, and Michel Cuer
Joint optimization of elastic parameters and velocity boundary conditions for the estimation of plate rigidity using geodetic data.
- XY365 EGU2011-6962
Jan Saynisch and Maik Thomas
Assimilation of Earth rotation observations with a global ocean model
- XY366 EGU2011-13064
Balasubramanya Nadiga and William Casper
Estimating the mean ocean circulation
- XY367 EGU2011-281
Mathieu Coustau, Sophie Ricci, Andrea Piacentini, Olivier Thual, Arthur Marchandise, Christophe Bouvier, and Valérie Borrell-Estudina
Calibration of a rainfall-runoff hydrological model and flood simulation using data assimilation
- XY368 EGU2011-5723
Dmytro Martynenko, Thomas Holzer-Popp, Lars Klueser, Julian Meyer-Arnk, and Christoph Bergemann
Data assimilation of IASI mineral dust observations in an advanced chemistry transport model

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 Svennengsen
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 Courboulex, 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
Martonni 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

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

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

Hall A | Display Time 08:00–17:00

Author in Attendance: 10:30–12:00

Chairperson: C. Conrad

- A24 EGU2011-2828
Masaki Yoshida
Future supercontinent assembled in the northern hemisphere: Insight from a numerical model of mantle convection
- A25 EGU2011-3795
Gillian Foulger
Upper mantle mechanisms for the formation of melting anomalies
- A26 EGU2011-4358
Andrew N. Grushinsky
Modeling of some transitional processes in Earth's mantle
- A27 EGU2011-5476
Xavier Robert
An integrated model for the post-Laramide evolution of the Grand Canyon and the Colorado Plateau
- A28 EGU2011-6893
Blanka Nita, Magdala Tesauro, Sierd Cloetingh, Mikhail Kaban, and Edward Perchuc
Regional mantle structure below the European continent resulting from complex lithospheric geodynamic processes

A29	EGU2011-8397 Romain Beucher , Roderick Brown, Cristina Persano, Finlay Stuart, and Kerry Gallagher New insights into the age of the first-order topography of southern Africa from apatite (U-Th)/He and fission track dating of a deep borehole sequence through the Kaapvaal craton
A30	EGU2011-8588 Flora Bajolet , Javier Galeano Prieto, Ana-María Negredo, Francesca Funiciello, Monica Moroni, and Claudio Faccenna Continental delamination: Insights from laboratory models
A31	EGU2011-8748 Manuel Combes , Cécile Grigné, Laurent Husson, Sébastien Le Yaouanq, Marc Parenthoën, Chantal Tisseau, and Jacques Tisseau MACMA : Multiagent simulation of mantle convection with evolutive plate boundaries and continents.
A32	EGU2011-10369 Giancarlo Scalera Comparing the Andean volcano-seismic events to secular PM and TPW
A33	EGU2011-10897 Juan-Luis Valera , Ana M. Negredo Moreno, and Ivone Jiménez-Munt Deep and near-surface consequences of root removal by asymmetric continental delamination: comparison from different initial scenarios
A34	EGU2011-11075 Fabio Crameri , Paul Tackley, Irena Meilick, Taras Gerya, Boris Kaus, and Tobias Keller One-sided subduction in self-consistent models of global mantle convection: the importance of a free surface and a weak crustal layer
A35	EGU2011-11838 Laurent Husson , Stephane Pochat, Antoine Bezios, and Jean Van den Driessche Dynamic topography, endoreism, and the 87Sr/86Sr curve
A36	EGU2011-12912 István Kovács , Beatrix Udvárdi, 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 , Aurélia 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 Ganis , 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 Gadhavi, Khalid Ansari, Chiranjeeb 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 Taipe, 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 Svart
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, Abdulsasser 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 Rurand 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 Alkevli, 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 Grunnaeite 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 Abdurakhmatov, 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

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 SqueezSAR
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 Raucoules, 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 Sykoti
 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

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

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

Room: 26

Chairperson: Maria V.S. Ask

- 15:30–15:45 EGU2011-8029
Ilmo T. Kukkonen, Odleiv Olesen, and Maria V.S. Ask
 Introduction to Postglacial Faults and the ICDP Drilling Project (PFDP)
- 15:45–16:00 EGU2011-10399
Björn Lund, Peter Schmidt, Mark D. Zoback, Jens-Ove Näslund, and Raymond Munier
 Stress evolution and fault stability during the Weichselian glacial cycle with special focus on the Fennoscandian endglacial faults
- 16:00–16:15 EGU2011-2329
Odleiv Olesen, Conrad Lindholm, and Halfdan Pascal Kierulf
 Postglacial faulting in Norway: A review
- 16:15–16:30 EGU2011-2819
Christopher Juhlin and Björn Lund
 Reflection seismic imaging of the Pärvie and Burträsk end-glacial faults in northern Sweden
- 16:30–16:45 EGU2011-9825
Eva Lindblom, Björn Lund, Christopher Juhlin, Reynir Bödvarsson, Ari Tryggvason, Marja Uski, and Tormod Kvaerna
 Microearthquake activity on the Pärvie endglacial fault system, northern Sweden

16:45–17:00 EGU2011-7141

Elena Kozlovskaya, Olga Usoltseva and the POLENET/LAPNET Working Group Team
Studying local seismic events in the Fennoscandian postglacial fault province using the data of the POLENET/LAPNET project

17:00–17:15 EGU2011-12986

Erik Ivins, Richard Gross, Xiaoping Wu, and Tony Song
Ocean Load Induced Crustal Stress on Milankovic to Sub-annual Time Scales

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

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

Halls X/Y | Display Time 08:00–17:00

Author in Attendance: 10:30–12:00

Chairperson: Ilmo T. Kukkonen

XY506 EGU2011-10016

Michele MC Carafa, Juerg Hauser, Salvatore Barba, and Hilmar Bungum
Fennoscandian strain rates and seismicity

XY507 EGU2011-13496

Maria Ask and Daniel Ask
Validating hydraulic fracturing data from the Lansjärv postglacial fault, North Sweden

XY508 EGU2011-8868

Mikhail L. Kopp
Neotectonic intraplate faulting of the eastern East European craton and the Urals and its relation to collisional stresses come from the southern margin of the Eurasian lithospheric plate

XY509 EGU2011-2892

Christian Brandes, Julia Roskosch, Janine Meinsen, Jutta Winsemann, Manfred Frechen, and David Tanner
Reactivation of the Osning Thrust in Central Europe: ice-sheet and lithosphere interactions during the LGM

XY510 EGU2011-847

Rebekka Steffen, David W. Eaton, and Patrick Wu
Moment tensors, state of stress and their relation to postglacial rebound in northeast Canada

XY511 EGU2011-5965

Mathilde Sørensen, Lars Ottemöller, and Jens Havskov
Earthquake swarms in northern Norway

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

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

Hall A | Display Time 08:00–17:00

Author in Attendance: 10:30–12:00

Chairperson: n.n.

A38 EGU2011-11809

Jesus Casal Berbel and **Christine Thomas**
New insights into the D'' layer beneath the central Pacific

A39 EGU2011-8593

Paul Tackley
The 3-D dynamics of compositionally-stratified slabs entering a “slab graveyard”

A40 EGU2011-8635

Paul Tackley and Takashi Nakagawa
Effects of low-viscosity post-perovskite on thermo-chemical mantle convection in a 3-D spherical shell

A41 EGU2011-12434

Frédéric Deschamps, **Paul Tackley**, Yang Li, and Takashi Nakagawa
The nature and dynamics of deep mantle thermo-chemical reservoirs

A42 EGU2011-10795

Hein van Heck and **Paul Tackley**
The limited effect of toroidal flow on mixing efficiency in 3-D spherical mantle convection.

A43 EGU2011-3989

Claudia Stein and Ulrich Hansen
Evolution in plate-mode mantle convection: Implications for plumes and thermochemical piles

A44 EGU2011-9941

Tiffany Barry and J. Huw Davies
A look at what happened to Tethyan mantle during closure of Neo-Tethys

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

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

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

Room: 22

Chairperson: Jon Mound and Hauke Marquardt

13:30–13:45	EGU2011-3592 Renaud Deguen , Thierry Alboussière, Philippe Cardin, and Mickael Melzani Convection, melting and the structure of the inner core and lowermost outer core
13:45–14:00	EGU2011-11177 Chris Finlay A geomagnetic perspective on core structure and dynamics
14:00–14:15	EGU2011-2631 Seiki Asari and Vincent Lesur Radial vorticity constraint in the core flow modeling
14:15–14:30	EGU2011-3068 Pavel Hejda and Alexander P. Anufriev Compressibility effects in the Earth's core convection
14:30–14:45	EGU2011-7944 Phil Livermore and Rainer Hollerbach An excitation mechanism for torsional oscillations on the tangent cylinder

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

SM5.2/NH4.7 – Time-dependent earthquake occurrence and seismic hazard: physics and statistics (co-organized) –

Orals

Convener: Gert Zöller | Co-Conveners: Sebastian Hainzl, Massimo Cocco, Mark Naylor

Room: 26

Chairperson: Gert Zöller

- 08:30–09:00 EGU2011-4954
Clément Narteau, Peter Shebalin, and Matthias Holschneider
Probing the state of stress using early aftershocks
- 09:00–09:15 EGU2011-948
Denise De Gaetano, John McCloskey, and Suleyman Nalbant
The systematic study of the stability of forecasts in the rate- and state-dependent model
- 09:15–09:30 EGU2011-5005
Marco Mucciarelli and Dario Albarello
Empirical testing of earthquake recurrence models at source and site
- 09:30–09:45 EGU2011-4917
Stanislaw Lasocki
Clustering of seismic events in equivalent dimension hyperspaces - premonitory effects of M8.8 Chile earthquake of February 27, 2010
- 09:45–10:00 EGU2011-12502
Renata Rotondi and Elisa Varini
Statistical tests for the retrospective detection of space-time clusters of seismic events

COFFEE BREAK

Chairperson: Sebastian Hainzl

- 10:30–11:00 EGU2011-9019
Hugo Perfettini, Jean-Philippe Avouac, Hernando Tavera, Mohamed Chlieh, Jean-Mathieu Nocquet, Dominique Remy, Kositsky Andrew, and Anthony Sladen
Seismic and aseismic slip on the central Peru megathrust
- 11:00–11:15 EGU2011-10366
Michel Bouchon, Hayrullah Karabulut, Mustafa Aktar, Serdar Özalaybey, **Jean Schmittbuhl**, and Marie-Paule Bouin
Observation of repeating earthquakes during the nucleation of the 1999 Mw 7.6 Izmit earthquake
- 11:15–11:30 EGU2011-8463
Virginie Durand, Michel Bouchon, David Marsan, and Nikos Theodoulidis
Seismic interactions in Greece following the M=6.4, 2008, Achaia earthquake

11:30–11:45 EGU2011-3660

Matthias Holschneider, Gert Zöller, and Sebastian HainzlEstimation of the maximum magnitude in the framework of a doubly-truncated Gutenberg-Richter model:
Limits of statistical inference from earthquake catalogs

11:45–12:00 EGU2011-4653

Seok Goo SongEarthquake source statistics inferred from earthquake source physics - Toward developing an extended
earthquake rupture forecast model**SM5.2/NH4.7 – Time-dependent earthquake occurrence and seismic hazard: physics and statistics (co-organized) –**

Posters

Convener: Gert Zöller | Co-Conveners: Sebastian Hainzl, Massimo Cocco, Mark Naylor

Halls X/Y | Display Time 08:00–17:00

Author in Attendance: 15:30–17:00

Chairperson: Massimo Cocco

XY512 EGU2011-1845

Haikun Jiang, Maling Yang, Xuejun Sun, Jian Lv, Chuanhen Yan, and Qiong Wu

A typical locally triggered seismicity in Southwest of China, following the large rainfall event of June 2010

XY513 EGU2011-2053

Alessandro Caporali, Salvatore Barba, Michele Carafa, Roberto Devoti, Grazia Pietrantonio, and Federica
Riguzzi

Static stress drop as determined from geodetic strain rates and statistical seismicity

XY514 EGU2011-3765

Pierre Dublanchet, Pascal Bernard, and Pascal Favreau

Cycle and triggering of a rate-and-state asperity model.

XY515 EGU2011-7014

Gregor Hillers and Yehuda Ben-Zion

Modeling Tectonic Tremor and Slow Slip Events with rate-and-state friction close to critical zero weakening

XY516 EGU2011-11265

Gilbert Brietzke, Sebastian Hainzl, Gert Zöller, and Matthias Holschneider

Quasi-Dynamic Simulations on Multiple Fault Systems

XY517 EGU2011-5847

Hongjun Si, Akemi Noda, Michiharu Ikeda, Kazuki Ogiyama, Naoki Nishizaka, and Yuki OhnoA study on rupture propagation between the segments on the MTL based on the simulation of dynamic rupture
process

XY519 EGU2011-2987

Christoph Bach and Sebastian Hainzl

Aftershock modeling based on Coulomb stress-triggering and ground shaking

XY520 EGU2011-8347

Sebastian Hainzl, Gert Zöller, Gilbert B. Brietzke, Lifeng Wang, and Matthias Holschneider

A stochastic fault-based earthquake simulator for short- and long-term seismicity

XY522 EGU2011-7460

Beata Orlecka-Sikora, Stanislaw Lasocki, Grzegorz Lzurek, and ?ukasz Rudzi?ski

Response of seismic activity in mines to the stress changes due to mining induced strong seismic events

XY523 EGU2011-623

Samira Maghsoudi, Simone Cesca, Sebastian Hainzl, Dirk Becker, Torsten Dahm, Diethelm Kaiser, and

Volker Oye

Statistical Tools for Seismicity Analysis in Mining Environments

XY524 EGU2011-6912

Andrew Bell, Sarah Touati, Mark Naylor, and Ian Main

The nature and origin of the interevent-time distribution of volcanic earthquakes

XY525 EGU2011-8949

Amir Hossein Hakimhashemi, Gottfried Gruenthal, Holger Schelle, and Christian Bosse

Time-Dependent Seismic Hazard Assessment in the Dead Sea Fault Zone

XY526 EGU2011-4946

Katalin Gribovszki, Péter Varga, and **Ferenc Schulek-Tóth**

Deterministic Seismic Hazard Assessment of the inner town of Budapest

XY527 EGU2011-10274

Hayrullah Karabulut, Jean Schmittbuhl, Michel Bouchon, Serdar Özalaybey, Olivier Lengliné, Guillaume

Daniel, Ahu Kömeç, Virginie Durand, and Marie-Paule Bouin

Seismicity in the Cinarcik basin, East Marmara: changes due to the 1999 Izmit Earthquake and present-day

activity

- XY528 EGU2011-2036
Elena Sasorova, Andreeva Marina, and Levin Boris
 Spatial-temporal distributions of earthquakes of the Kuril Island arc
- XY529 EGU2011-4259
 Emmanouil Katsifarakis, **Antonios Konstantaras**, Emmanuel Maravelakis, Emmanouil Skounakis, and Martin Varley
 Seismic clustering algorithms
- XY530 EGU2011-2523
Yan Jia, Edmund Fiegweil, Christiane Freudenthaler, Rita Meurers, and Wolfgang Lenhardt
 Overview of Austrian Seismic Monitoring in 2010
- XY531 EGU2011-12120
 Emmanouil Skounakis, **Anthony Konstantaras**, Emmanouil Katsifarakis, Emmanuel Maravelakis, Konstantinos Banitsas, and Martin Varley
 Seismic data clustering management system

SM5.3 – Advancements in Passive Seismic Monitoring of Induced Seismicity – Orals

Convener: Roland Gritto | Co-Conveners: Marco Bohnhoff, Philippe Jousset

Room: 26

Chairperson: Roland Gritto, Philippe Jousset

- 13:30–13:45 EGU2011-12609
Junlun Li, H. Sadi Kuleli, Haijiang Zhang, and M. Nafi Toksoz
 Focal Mechanism Determination of Induced Microearthquakes in an Oil Field Using Full Waveforms from Shallow and Deep Monitoring Networks
- 13:45–14:00 EGU2011-1817
Friedemann Wenzel and Sergei Shapiro
 Tectonic and Induced Seismicity - the Basel (2006) Case
- 14:00–14:15 EGU2011-10734
Joern Kummerow, Anton Reshetnikov, Serge A. Shapiro, Hiro Asanuma, and Markus O. Häring
 Application of a Waveform Similarity- Based Location Algorithm to the Basel 1 Microseismic Data
- 14:15–14:30 EGU2011-11769
Ngoc-Tuyen Cao, Isabelle Contrucci, Emmanuelle Klein, and Pascal Bigarré
 Evolution of microseismic activity prior to a salt cavern collapse
- 14:30–14:45 EGU2011-12076
Anna Tramelli, Claudia Troise, Giuseppe De Natale, and Massimo Orazi
 Optimization and testing of microseismic monitoring networks: least-squares vs. Bayesian approach
- 14:45–15:00 EGU2011-3308
Serge Shapiro, Oliver Krüger, Carsten Dinske, and Cornelius Langenbruch
 Magnitudes of induced earthquakes versus geometric parameters of stimulated volumes

SM5.3 – Advancements in Passive Seismic Monitoring of Induced Seismicity – Posters

Convener: Roland Gritto | Co-Conveners: Marco Bohnhoff, Philippe Jousset

Halls X/Y | Display Time 08:00–17:00

Author in Attendance: 15:30–17:00

Chairperson: Roland Gritto, Philippe Jousset

- XY532 EGU2011-482
Francesco Grigoli, Simone Cesca, and Torsten Dahm
 Optimized detection and location of microearthquakes using a single vertical array in a deep borehole
- XY533 EGU2011-635
Ali Tolga Sen, Simone Cesca, Monika Bischoff, Torsten Dahm, and Thomas Meier
 Moment Tensor Inversion of Coal Mining Induced Seismicity
- XY534 EGU2011-2205
Alexandrine Gesret, Mark Noble, Thomas Romary, and Nicolas Desassis
 Microseismic monitoring: new accurate estimate of velocity model uncertainties and consequences on location uncertainties
- XY535 EGU2011-3533
Jaromir Jansky and Vladimir Plicka
 Location of microseismic events using joint data from surface and monitoring well receivers. Synthetic test.
- XY536 EGU2011-3602
Marco Calo, Catherine Dorbath, François H. Cornet, and Michel Frogneux
 Time-resolved seismic tomography and its contribution in the EGS geothermal reservoir of Soultz-Sous-Forêts (France) during hydraulic stimulations

- XY537 EGU2011-5440
Shi-feng Xue, Bin Zhou, Feng Sun, Haikun Jiang, and Xiaodong Zhang
The reservoir-induced seismic activity and the fault hydrodynamics - A case study of Zipingpu Reservoir, China
- XY538 EGU2011-8209
Thomas Plenefisch, Ulrich Wegler, Matthias Keyser, Edgar Wetzig, and Christian Bönnemann
Monitoring of microseismic activity around the GeneSys deep geothermal drilling site, Hannover (Germany)
- XY539 EGU2011-10821
Grzegorz Kwiatek and Fatih Bulut
Induced seismicity at Berlín geothermal field, El Salvador: Spatiotemporal characteristics of microearthquakes down to MW - 0.5
- XY540 EGU2011-13045
Antonio Troiano, Maria Giulia Di Giuseppe, Zaccaria Petrillo, Claudia Troise, and Giuseppe De Natale
Modelling Coulomb stress changes due to fluid injection and withdrawal: relations to induced seismicity
- XY541 EGU2011-13477
Dirk Kraaijpoel, Jasper Kwee, and Bernard Dost
Microseismic monitoring of an underground gas storage facility in the Netherlands
- XY542 EGU2011-14214
Vincenzo Convertito, Nils Maercklin, Nitin Sharma, Emanuela Matrullo, Mauro Caccavale, Antonella Orefice, and Aldo Zollo
From induced seismicity to direct time-dependent seismic hazard

