

EGU General Assembly 2012

Programme Group Programme

SM – Seismology

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Monday, 23 April

SM1.5 – Seismology without seismometers: what can we learn from new observables? – Orals

Convener: C. Hadziioannou | Co-Conveners: AMG Ferreira, H. Igel, C. Sens-Schönfelder

Room: 26

Chairperson: Celine Hadziioannou

- 13:30–13:45 EGU2012-12089
J. Guilbert, A. Le Pichon, J. Vergoz, and O. Sèbe
 A new approach of the rupture process of the great earthquakes using images derived from hydroacoustic or infrasound array processing
- 13:45–14:00 EGU2012-3661
L. Crescentini, A. Amoroso, and V. Botta
 Slow diffusive fault slip propagation: direct evidences from high-sensitivity strain measurements.
- 14:00–14:15 EGU2012-12827
A. Borsa, D. Mencin, G. Laske, and K. Hodgkinson
 Observation and identification of normal modes of the earth using the PBO strainmeter network
- 14:15–14:30 EGU2012-4107
J. Brokešová and J. Málek
 Six-degree-of-freedom local seismic records from micro-earthquakes and anthropogenic events
- 14:30–14:45 EGU2012-4353
N. Beverini, J. Belfi, G. Carelli, A. Di Virgilio, A. Licciardi, E. Maccioni, G. Saccorotti, and F. Stefani
 Rotational seismic detection through G-Pisa ring laser gyroscope
- 14:45–15:00 EGU2012-13160
P. Lognonne, J. Makela, L. Rolland, G. Occhipinti, E. Astafyeva, P. Coisson, M. Mann, A. Kherani, and A. Sladen
 Monitoring the 2011 Tohoku-Oki waves without seismometers: from rupture initiation to seismic and tsunami waves

SM1.5 – Seismology without seismometers: what can we learn from new observables? – Posters

Convener: C. Hadziioannou | Co-Conveners: AMG Ferreira, H. Igel, C. Sens-Schönfelder

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Christoph Sens-Schoenfelder

- XY486 EGU2012-4289
F. Moschas, A. Avallone, N. Moschonas, V. Saltogianni, and S. Stiros
 Assessment of the accuracy of PPP for very-high-frequency dynamic, satellite positioning and earthquake modeling
- XY487 EGU2012-4102
C.-J. Lin and C.-C. Liu
 Investigation of rotational motion in TAIPEI 101
- XY488 EGU2012-5033
C. Hadziioannou, P. Gaebler, U. Schreiber, J. Wassermann, and H. Igel
 Examining ambient noise using co-located measurements of rotational and translational motion
- XY489 EGU2012-7394
A. Gebauer, U. Schreiber, and T. Klügel
 From Earth rotation to seismology - measuring rotations over 10 decades of frequencies
- XY490 EGU2012-9006
P. Gaebler, C. Sens-Schönfelder, and M. Korn
 Using Radiative Transfer Theory to model six-component seismogram envelopes
- XY491 EGU2012-13505
M. Nader, M. Bernauer, J. Wassermann, A.M. Ferreira, U. Schreiber, and H. Igel
 Rotational long-period signals: From Ring Laser Data to Large Seismic Networks Array Derived Rotations.
- XY492 EGU2012-8980
A. Raja-Halli, H. Virtanen, and H. Ruotsalainen
 Earth's normal mode spectrum below 1mHz observed with a superconducting gravimeter
- XY493 EGU2012-4857
E. Zabranova, C. Matyska, and L. Hanyk
 Gravity observations at the GOPE station and modeling of free oscillations
- XY494 EGU2012-3663
L. Crescentini, V. Botta, A. Amoroso, and A. Bettini
 Installation of two high-sensitivity laser strainmeters in a new underground geodynamical observatory (GEODYN) at Canfranc (Spain)

XY495 EGU2012-9574

H. Nagao, N. Kobayashi, Y. Fukao, I. Tomizawa, and T. Higuchi

Modeling of Atmospheric and Ionospheric Disturbances Excited by a Large Earthquake - In the case of the 2008 Iwate-Miyagi Nairiku Earthquake -

SM2.0/GD2.10/NH4.10/TS8.8 – The 23 October 2011 Van Earthquake - Losses and Lessons (co-organized) – Orals

Convener: M. Erdik | Co-Conveners: F. Wenzel

Room: 26

Chairperson: Mustafa Erdik and Friedemann Wenzel

15:30–15:45 EGU2012-11361

P. Albini, M.B. Demircioglu, M. Locati, **A. Rovida**, K. Sesetyan, M. Stucchi, and D. Viganò

Revising the historical seismicity of the region of Van

15:45–16:00 EGU2012-14409

S. Altuncu Poyraz, M. Alper ?engöl, and A. P?nar

Source Rupture Process And Seismotectonic Implication Of Van Tabanlı Earthquake, October 23, 2011

16:00–16:15 EGU2012-12139

A. M. Akoglu, S. Jonsson, Z. Cakir, S. Ergintav, U. Dogan, G. Feng, and C. Zabc?

The Surface Deformation and Source Parameters of the October 23rd, 2011, Mw 7.1 Van (Turkey)

Earthquake from InSAR, GPS and Field Observations

16:15–16:30 EGU2012-14393

E. Harmandar and **M. Erdik**

Strong Ground Motion Data from the October 23 and November 9, 2011 Van, Turkey Earthquakes

16:30–16:45 EGU2012-13931

Y. Kamer, A. C. Zulfikar, M. B. Demircioglu, C. Tuzun, K. Sesetyan, and M. Erdik

Post-Earthquake Rapid Loss Estimation for the October 23, 2011 Van Earthquake

16:45–17:00 EGU2012-14403

E. Uckan

Damage to industry and utilities during the October (Mw=7.2) and November(M=5.6), Van Lake Earthquakes, Eastern Turkey

SM2.0/GD2.10/NH4.10/TS8.8 – The 23 October 2011 Van Earthquake - Losses and Lessons (co-organized) – Posters

Convener: M. Erdik | Co-Conveners: F. Wenzel

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Mustafa Erdik and Friedemann Wenzel

XY496 EGU2012-5040

G. Ameri, **F. Gallovi?**, A. Askan, and J. Zahradník

Broadband Ground Motion Simulations of the 23 October 2011 Van (Eastern Turkey) Earthquake

XY497 EGU2012-14411

N. Meral Ozel and A. Kusmezer

2011 Van earthquake (Mw=7.2) aftershocks using the source spectra an approach to real-time estimation of moment magnitude

XY498 EGU2012-14401

H. Ozener, U. Dogan, Z. Çakir, S. Ergintav, R. Reilinger, R. Cakmak, B. Turgut, A. Akoglu, M.A. Floyd, and D. Oz

The Postseismic deformation of the October 23, 2011, Mw 7.2 Van (Turkey) Earthquake from GPS and InSAR

XY499 EGU2012-254

A. Tan, H. Eyidogan, V. Gecgel, and A. Yoruk

Recent Seismotectonics Implications Of The East Anatolian Fault Zone Close to Van, Eastern Turkey

XY500 EGU2012-6956

A. Akinci and A. Antonioli

Observations and Modeling of Strong Ground Motions for the 23 October 2011 Mw 7.1 Van, Turkey, Earthquake

XY501 EGU2012-9424

S. Pulinets, D. Ouzounov, G. Giuliani, K. Tsybulya, and I. Yudin

Results of short-term earthquake precursors multiparameter monitoring during preparation phase of Van earthquake as manifestation of the crust, surface, atmospheric and ionospheric processes synergy

XY502 EGU2012-2791

Y. Altiner, W. Söhne, and C. Güney

The geodetic impact of the Van earthquake from 23 October 2011

- XY503 EGU2012-5565
J.E. Daniell, B. Khazai, F. Wenzel, T. Kunz-Plapp, A. Vervaeck, B. Muehr, and M. Markus
 A discussion of the socio-economic losses and shelter impacts from the Van, Turkey Earthquakes of October and November 2011
- XY504 EGU2012-13905
M. Erdik, M. B. Demircioglu, Y. Kamer, K. Sesetyan, C. Tuzun, and A. C. Zulfikar
 Rapid Earthquake Hazard and Loss Assessment with ELER© Software

SM2.3 – A discussion of the seismic input: What is the relation between destructive earthquakes and seismic tremor? – Posters

Convener: S. Castellaro | Co-Conveners: A. Emolo

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 15:30–17:00

Chairperson: Silvia Castellaro, Antonio Emolo

- XY505 EGU2012-9575
G. Cultrera, H. Cadet, V. De Rubeis, N. Theodoulidis, P.-Y. Bard, and G. Di Giulio
 Proxies for site effect estimation: can statistics help us?
- XY506 EGU2012-4580
F. Gallovi?, G. Ameri, and F. Pacor
 Strong ground motions of the 2009 L'Aquila earthquake: modeling and scenario simulations
- XY507 EGU2012-1706
A. Jetson Ronald, C.G. Lai, and A.S. Papageoriou
 Surface Waves in Strong-Motion Records and their Importance for Engineering Applications
- XY508 EGU2012-5106
 D. Albarello, M. Bianca, **M.R. Gallipoli**, A. Giocoli, M. Mucciarelli, and S. Piscitelli
 Seismic Passive Prospecting techniques as a useful tool during destructive earthquakes
- XY509 EGU2012-7535
S. Del Gaudio, T. Lucca, and G. Festa
 Strong motion simulations using coupled numerical-empirical Green's functions: the 2009 L'Aquila-earthquake
- XY510 EGU2012-1588
F. Adatepe, S. Demirel, and D. Vardar
 The Effects of Historical Earthquakes on Cyzicus Ancient City
- XY511 EGU2012-385
X.S Xie, J.Y Lin, S.K Hsu, C.H Lee, and C.W Liang
 Spatial distribution of non volcanic tremors offshore eastern Taiwan
- XY512 EGU2012-3712
 E.M. Toraldo Serra, A. Orefice, **A. Emolo**, and A. Zollo
 Inverting Source Time Functions to determine the fault kinematic characteristics
- XY513 EGU2012-12069
S. Mirahmadi, A. Sadidkhouy, A. Rezaei Nayeh, and GH. Javan Doloei
 Upper mantle anisotropy obtained from SKS analysis in Kerman province, South-Central Iran.
- XY514 EGU2012-13166
A. Manzanares, G. Asch, and IPOC work group
 Study of spatial and temporal variations of seismic patterns in northern Chile.

SM3.2 – In QUEST of seismic models for sources and Earth's structure – Orals

Convener: P. Poli | Co-Conveners: A. Schiemenz, L. Gualtieri, A. Colombi

Room: 26

Chairperson: A. Schiemenz

- 08:30–08:45 EGU2012-2707
V. Etienne, G. Hu, S. Operto, and J. Virieux
 Three-dimensional seismic full waveform inversion of ocean bottom cable data from the Valhall oil field
- 08:45–09:00 EGU2012-2803
L. Gualtieri, E. Stutzmann, Y. Capdeville, F. Ardhuin, M. Schimmel, A. Mangeney, and A. Morelli
 Modeling seismic noise by normal mode summation
- 09:00–09:15 EGU2012-7801
A. Obermann, T. Planès, E. Larose, and M. Campillo
 Depth sensitivity of coda waves to velocity perturbations of an elastic heterogeneous medium
- 09:15–09:30 EGU2012-9685
T. Nissen-Meyer, S. Hanasoge, L. Stehly, and P. Cupillard
 Non-linear inversions for the origin of ambient noise

- 09:30–09:45 EGU2012-1534
H. Zhu, E. Bozdag, D. Peter, and J. Tromp
 Adjoint tomography reveals structure of the European Upper Mantle
- 09:45–10:00 EGU2012-4169
K. Sigloch, S. Stähler, S. K. Hosseini zad, and T. Nissen-Meyer
 Waveform inversion of truly broadband seismograms for global tomography

COFFEE BREAK

Chairperson: A. Colombi

- 10:30–10:45 EGU2012-4544
A.P. Valentine, J. Trampert, and J.H. Woodhouse
 Source parameters for global seismology: how accurate are CMT-style source inversions?
- 10:45–11:00 EGU2012-4633
K. Lentas, A. M. G. Ferreira, and E. Clévéde
 Determination of rupture time and length of large magnitude earthquakes using normal mode data
- 11:00–11:15 EGU2012-9916
V. Rezanezhad, L. Wang, and M. Holschneider
 Bayesian inference in linear mixed models for spatial distribution of fault slip
- 11:15–11:30 EGU2012-5440
Y. Capdeville, P. Cupillard, and J.J Marigo
 Taking into account small scale inhomogeneities and topography rapid variations in forward modeling and inverse problems in seismology.
- 11:30–11:45 EGU2012-5475
P. Moczo, J. Kristek, M. Galis, E. Chaljub, X. Chen, and Z. Zhang
 Theoretical and numerical comparison of 3D numerical schemes for their accuracy with respect to P-wave to S-wave speed ratio
- 11:45–12:00 EGU2012-9951
J.-P. Montagner, G. Burgos, M. Drilleau, E. Beucler, Y. Capdeville, A. Mocquet, and J. Trampert
 Seismic Anisotropy in the Transition Zone of the mantle

SM3.2 – In QUEST of seismic models for sources and Earth's structure – Posters

Convener: P. Poli | Co-Conveners: A. Schiemenz, L. Gualtieri, A. Colombi

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 15:30–17:00

Chairperson: L. Gualtieri

- XY515 EGU2012-2530
A. Schiemenz and H. Igel
 Workflow strategies and application to large-scale 3-D full-waveform inversion
- XY516 EGU2012-3681
T. A. Smaglichenko
 Review of inversion techniques using analysis of different tests
- XY517 EGU2012-4157
K Hosseini-zad, S. C. Stähler, K. Sigloch, and C. Scheingraber
 "No data left behind": Efficient processing of large datasets for waveform tomography and Bayesian source inversion
- XY518 EGU2012-3044
P. Poli, H. A. Pedersen, M. Campillo, and POLENET/LAPNET Working Group
 Imaging small velocity variations through improved noise correlation approach: application to northern Fennoscandia
- XY519 EGU2012-4884
D. Rivet, M. Campillo, F. Sanchez-Sesma, and S.K. Singh
 Imaging the crustal structure of the valley of Mexico and higher mode identification using H/V spectral ratio
- XY520 EGU2012-13580
L. Valentova, F. Galovic, B. Ruzek, and J. de la Puente
 Interpretation of ambient noise cross-correlation traveltimes: Finite-frequency tomography of Love group velocities in the Czech Republic
- XY521 EGU2012-1011
G V Vera Padilla
 Analysis of Green functions obtained by cross-correlations for MASE stations

- XY522 EGU2012-5113
B. Grecu, C. Neagoe, D. Tataru, and G. Stuart
Background Noise Characteristics in the Western Part of Romania
- XY523 EGU2012-2088
M. Schimmel, E. Stutzmann, F. Ardhuin, and J. Gallart
Polarized Earth's Ambient Microseismic Noise
- XY524 EGU2012-5603
E. Bozdogan, H. Zhu, D. Peter, and J. Tromp
Towards Global Adjoint Tomography
- XY525 EGU2012-7506
F. Magnoni, E. Casarotti, A. Michelini, A. Piersanti, D. Komatitsch, D. Peter, and J. Tromp
Spectral-Element and Adjoint 3D Tomography for the Lithosphere of Central Italy
- XY526 EGU2012-10797
J. Baron, P. Danecek, A. Morelli, and R. Tondi
Full-waveform tomography in the Vrancea region - Romania
- XY527 EGU2012-11133
A. Colombi, T. Nissen-Meyer, and L. Boschi
Frequency-dependent sensitivity to mantle and core-mantle topography
- XY528 EGU2012-6997
M. Kristekova, M. Galis, P. Moczo, and J. Kristek
Quantitative evaluation of efficiency of the methods for a posteriori filtration of the slip-rate time histories
- XY529 EGU2012-7356
M. Galis, C. Pelties, J. Kristek, and P. Moczo
An artificial stress asperity for initialization of spontaneous rupture propagation - a parametric study of a dynamic model with linear slip-weakening friction
- XY530 EGU2012-2451
C. Su and G. Seriani
A poly-grid approach for wave propagation modelling in highly heterogeneous media by using a Chebyshev spectral element method
- XY531 EGU2012-5388
J. Kristek, P. Moczo, and M. Galis
A stable arbitrarily discontinuous staggered grid for FD modeling of seismic motion
- XY532 EGU2012-8519
N. Wang, J.-P. Montagner, Y. Capdeville, G. Burgos, and P. Cupillard
How to separate intrinsic and artificial anisotropy
- XY533 EGU2012-10379
S. Wenk, C. Pelties, and H. Igel
3-D elastic wave propagation on regional to global scales using an ADER-DG method
- XY534 EGU2012-12109
P. Cupillard and Y. Capdeville
Upscaling small heterogeneities for seismic wave propagation in 3D complex media

GD2.3/GMPV6.8/SM3.6/TS9.8 – Heat flow and thermal regime of the lithosphere: Deep and surface processes (co-organized) – Orals

Convener: A. Vaughan | Co-Conveners: I.M. Artemieva, I. Rogozhina, I. T. Kukkonen, N. Kusznir

Room: 22

Chairperson: n.n.

- 08:30–08:45 EGU2012-14378
JH Davies and DR Davies
Revised Estimate of Earth's Surface Heat Flow: 47 +/- 2 TW
- 08:45–09:00 EGU2012-10762
T. A. Jordan, F. Ferraccioli, and R. C. Hindmarsh
Rifting, heat flux, and water availability beneath the catchment of Pine Island Glacier
- 09:00–09:15 EGU2012-7411
S. Umino and A. Okugawa
A New Geothermometer Using Crystal Size Variations of the Sheeted Dikes: Insight Into the Thermal Structure of The Upper Oceanic Crust
- 09:15–09:30 EGU2012-9338
F. Schütz and A. Förster
Surface heat flow of southern Israel based on new borehole data
- 09:30–09:45 EGU2012-6942
I. T. Kukkonen, V. Rath, L. Kivekäs, J. Šafanda, and V. ?ermak
Geothermal Studies of the Outokumpu Deep Drill Hole, Finland: Vertical variation in heat flow and palaeoclimatic implications

09:45–10:00 EGU2012-13626

M. Purucker

Heat flow inferred from satellite magnetic data over the Antarctic

GD2.3/GMPV6.8/SM3.6/TS9.8 – Heat flow and thermal regime of the lithosphere: Deep and surface processes (co-organized) – Posters

Convener: A. Vaughan | Co-Conveners: I.M. Artemieva, I. Rogozhina, I. T. Kukkonen, N. Kuznir

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

XL182 EGU2012-4499

M.T Tesauro, M.K Kaban, S.C Cloetingh, and W.M Mooney

A New thermal and compositional model of the North American lithosphere

XL183 EGU2012-8095

A.P.M. Vaughan, N. Kuznir, F. Ferraccioli, and T.A.R.M. Jordan

Regional Heat-flow Prediction for Antarctica using Gravity Inversion Mapping of Crustal Thickness and Lithosphere Thinning

XL184 EGU2012-7277

V. Spichak, O. Zakharova, and A. Goidina

3D thermal structure of the Hengill geothermal area (Iceland) revealed from electromagnetic sounding data and temperature well logs

XL185 EGU2012-9895

I. Rogozhina, J. M. Hagedoorn, Z. Martinec, K. Fleming, and M. Thomas

Applicability and limitations of large-scale ice-sheet modeling for constraining subglacial geothermal heat flux

XL186 EGU2012-13345

R Klenner and **W Gosnold**

Heat Flow and the Pleistocene Ice Margin

XL187 EGU2012-9216

Y. Popov, R. Romushkevich, D. Gorobtsov, and D. Korobkov

Vertical Variations In Heat Flow Inferred From Experiments In Deep Boreholes

GD2.2/GMPV6.5/SM3.7/TS3.8 – Crustal Dynamics vs Anisotropy (co-organized) – Orals

Convener: I. Bianchi | Co-Conveners: M. Miensopust, B. Grasemann, Y. Gueguen, W Rabbel

Room: 30

Chairperson: n.n.

13:30–13:45 EGU2012-2542

N. Rawlinson, P. Arroucau, M. Young, M. Salmon, and B. L. N. Kennett

Seismic anisotropy and heterogeneity in the crust beneath southeast Australia from ambient noise tomography

13:45–14:00 EGU2012-8759

J-M. Kendall, J. P. Verdon, D. Keir, and A. Baird

Monitoring dyke injection and strain field evolution using shear-wave splitting.

14:00–14:15 EGU2012-5733

X.-q. Wang, A Schubnel, J Fortin, Y Gueguen, and H.-q. Ge

Vp/Vs Ratio: Dispersion and Anisotropy Effects in Cracked Rocks

14:15–14:30 EGU2012-823

E. Izquierdo Llavall, A. Casas Sainz, and B. Oliva Urcia

Magnetic fabrics in overthrust terranes: example from the Buntsandstein Facies in the southern edge of the Axial Zone (Nogueres unit, Central Pyrenees)

14:30–14:45 EGU2012-8009

A. Korja, T. Tiira, T. Hyvönen, T. Kilpeläinen, and T.M. Lammi

Lateral spreading of the Svecofennian Orogen imaged by average lineations and residual velocity anisotropy

14:45–15:00 EGU2012-12830

D. Okaya, S. E. Johnson, S. S. Vel, W. J. Song, and N. I. Christensen

The role of length scales in bridging the gap between rock CPO and seismic signals of crustal anisotropy

GD2.2/GMPV6.5/SM3.7/TS3.8 – Crustal Dynamics vs Anisotropy (co-organized) – Posters

Convener: I. Bianchi | Co-Conveners: M. Miensopust, B. Grasemann, Y. Gueguen, W Rabbel

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XL169 EGU2012-4842
I. M. Aleshin
Seismic anisotropy derived from joint inversion of SKS and P-to-S converted phases
- XL170 EGU2012-4906
E. Duesterhoeft, R. Bousquet, H. Wichura, and R. Oberhänsli
Metamorphic density changes as key process to form anorogenic plateaus
- XL171 EGU2012-13561
E. Mandolesi and A. G. Jones
Magnetotelluric Inversion in a 2D Anisotropic Environment
- XL172 EGU2012-9091
A. Martí, O. Rosell, P. Queralt, J. Ledo, and A. Marcuello
Identification of anisotropic geoelectric structures using dimensionality analysis of magnetotelluric data.
Application to the Spanish Betic Chain
- XL173 EGU2012-6909
T.-Y. Huang, Y.-N. Chen, Y. Gung, W.-T. Liang, and L.-Y. Chiao
3D isotropic/anisotropic crustal models of Taiwan using ambient seismic noises
- XL174 EGU2012-2970
T. Yudistira, **H. Paulssen**, and J. Trampert
Radial anisotropy in the crust beneath the Netherlands from ambient seismic noise
- XL175 EGU2012-5850
W. Rabbel and C. Eckhardt
Regional domains of crustal seismic anisotropy in the central European Variscides
- XL176 EGU2012-9679
I. Bianchi, G. Bokermann, and K. Shiomi
Crustal Anisotropy across Northern Japan by Receiver Functions
- XL177 EGU2012-8549
D. Giannopoulos, E. Sokos, K. Konstantinou, A. Lois, and G-A Tselentis
Temporal variation of shear-wave splitting parameters related to Movri Mountain earthquake in northwest Peloponnese (Greece)
- XL178 EGU2012-8287
L. Cristiano, T. Meier, C. Weidle, and F. Krüger
Automated determination of P-wave polarization at the GRSN
- XL179 EGU2012-11162
G. Polat, **S. Lebedev**, P. W. Readman, B. M. O'Reilly, and F. Hauser
Anisotropic Rayleigh-wave tomography of Ireland's crust: Implications for crustal accretion and evolution within the Caledonian Orogen
- XL180 EGU2012-12661
W. J. Song, S. S. Vel, S. E. Johnson, and D. Okaya
Effect of fold structures on seismic anisotropy in continental crust
- XL181 EGU2012-13521
J. M. Walter, **M. Stipp**, K. Ullemeyer, H. Klein, B. Leiss, B.T. Hansen, and W.F. Kuhs
POWTEX Neutron Diffractometer at FRM II - New Perspectives for In-Situ Rock Deformation Analysis

GMPV2.1/GD2.7/SM4.2/TS1.4 – Geochemical, petrological and physical discontinuities in the lithospheric mantle: supporting evidence and hypotheses for their origin (co-organized) – Orals

Convener: I. Ashchepkov | Co-Conveners: C. Szabo, J. van Hunen

Room: 27

Chairperson: n.n.

- 08:30–08:45 EGU2012-1727
G. M. Yaxley, A. J. Berry, A. B. Woodland, V. S. Kamenetsky, D. Paterson, M. D. de Jonge, and D. L. Howard
Application of Fe K-edge XANES determinations of Fe³⁺/totalFe in garnet to peridotite xenoliths from the Udachnaya Kimberlite
- 08:45–09:00 EGU2012-4669
A. Woodland
Ferric iron budget of Kaapvaal cratonic mantle peridotite
- 09:00–09:15 EGU2012-12791
R. Meyer and L.T. Elkins-Tanton
Experimental petrology constrains on melting conditions of high-potassium melts under the Central Sierra Nevada, California, USA

- 09:15–09:30 EGU2012-12120
Zs. Pintér, I. Kovács, J. Mihály, Cs. Németh, and Cs. Szabó
 An FTIR study on nominally anhydrous minerals in mantle xenoliths with diverse textures from the central Carpathian-Pannonian region (Bakony-Balaton Highland Volcanic Field, Hungary)
- 09:30–09:45 EGU2012-3986
E Vasyukova
 Geochemical data of Early Mesozoic lamprophyres and associated syenites (SE Altay-NW Mongolia)
- 09:45–10:00 EGU2012-4509
E. Artyushkov
 The Moho discontinuity in superdeep sedimentary basins as a top of the layer of deeply metamorphosed mafic rocks in the lower crust

GMPV2.1/GD2.7/SM4.2/TS1.4 – Geochemical, petrological and physical discontinuities in the lithospheric mantle: supporting evidence and hypotheses for their origin (co-organized) – Posters

Convenor: I. Ashchepkov | Co-Conveners: C. Szabo, J. van Hunen

Hall XL | Display Time 08:00–19:30

Author in Attendance: 10:30–12:00

Chairperson: n.n.

- XL284 EGU2012-1166
 I.V. Ashchepkov, **S.S. Kuligin**, V.P. Afanasiev, N.V. Vladyskin, S.I. Kostrovitsky, M.I. Lelyukh, M.A. Vavilov, E.N. Nigmatulina, and S.V. Palessky
 Deep seated inclusions in kimberlites from Kharamai field and some kimberlite fields of Priyanabarie.
- XL285 EGU2012-1195
 I.V. Ashchepkov, **K.N. Egorov**, M.A. Vavilov, E.I. Nikolenko, V.P. Afanaseiv, E.N. Nigmatulina EN, and S.V. Palessky
 Cr-Pyropes and other mantle diamond-associated minerals from placers on Tumanshet river (Birysa basin).
- XL286 EGU2012-1205
I.V. Ashchepkov, S.S. Kuligin, N.V. Vladyskin, A.P. Smelov, V.P. Afanasiev, T. Ntaflos, M.I. Lelyukh, S.I. Kostrovitsky, N.S. Tychkov, A.M. Agashev, Yu.I. Ovchinnikov, E.N. Nigmatulina, and O.S. Khmelnikova
 Lithospheric mantle transects through the fields of kimberlitic magmatism in Siberian Craton.
- XL287 EGU2012-1686
I. Ashchepkov, T Ntaflos, A. Logvinova, A. Smelov, N. Vladyskin, S Kostrovitsky, S Lelyukh, V. Afanasiev, S. Kuligin, V Minin, H Downes, O Khmelnikova, E Nigmatulina, N Tychkov, M Skvortsova, and A Rotman
 Variations of the Fe# of garnet, olivine and other peridotite minerals in the mantle columns beneath the Yakutian kimberlites.
- XL288 EGU2012-2978
 I. Ashchepkov, **Yu Stegnitsky**, V Minin, A Tolstov, N Vladyskin, A Rotman, S Palessky, A Agashev, O. Khmelnikova, and M. Skvortsova
 Structure and evolution of the mantle column beneath the Nakyn kimberlite field.
- XL289 EGU2012-3552
V Prikhodko, I. Ashchepkov, T. Ntaflos, A. Barkar, S Vysotsky, S Esin, V Kutolin, and A Prussevich
 Composition and structure of mantle lithosphere in the Russian Far East according to xenoliths study.
- XL290 EGU2012-1682
I. Ashchepkov
 Single grain estimations of oxygen fugacity in subcratonic mantle lithosphere using compositions of Ilmenite, Chromite, Garnet and Pyroxenes.
- XL291 EGU2012-5667
J. Globig and H. Sommer
 Phase relationships of a lherzolite from the Roberts Victor Mine, South Africa: A study of chemical and physical parameters in the Kaapvaal Craton.
- XL292 EGU2012-1211
I.V. Ashchepkov, N.V. Vladyskin, S.S. Kuligin, A.P. Smelov, T. Ntaflos, S.I. Kostrovitsky, M.I. Lelyukh, A.Ya. Rotman, V.P. Afanasiev, N.S. Tychkov, E.V. Malygina, Yu.I. Ovchinnikov, S.V. Palessky, I.V. Nikolaeva, O.S. Khmelnikova, and E.N. Nigmatulina
 Variations of the SCLM structures and geochemical features of the peridotites in different mantle terranes beneath Siberian craton.
- XL293 EGU2012-12991
S. Fishwick, H.A. Pedersen, D.B. Snyder, and J. Fullea
 Highlighting seismic velocity variations in cratonic lithosphere from the consistent analysis of surface wave dispersion.
- XL294 EGU2012-3325
S. Sablukov, L. Sablukova, Yu. Stegnitskiy, and M. Karpenko
 Origin of the mantle rocks with green garnets (isotope and trace element study of the mantle xenoliths from Newlands dyke, South Africa and Nyurbinskaya pipe, Yakutia)

- XL295 EGU2012-6764
S. Kostrovitsky, D. Yakovlev, and Z. Spetsius
Titanium in garnets as indicator of inhomogeneous composition of lithosphere mantle
- XL296 EGU2012-7917
X. Chen and L. Liu
Geochemistry Study of Cenozoic Wangtian'e Volcano in Northeast China
- XL297 EGU2012-8370
A.M. Agashev, D.A. Ionov, N.P. Pokhilenko, A.V. Golovin, E. A. Surgutanova, and I.S. Sharygin
Measured vs Calculated WR Geochemical Composition of Deformed Peridotite Xenoliths: Inferences About Metasomatism in Cratonic Mantle
- XL298 EGU2012-10633
A. Goncharov and D. Ionov
Redox state of cratonic and off-craton lithospheric mantle: new Mossbauer data from garnet and spinel peridotites
- XL299 EGU2012-13509
Y.A. Balashov and E.V. Martynov
Issues of oxygen excess in the crust and upper mantle lithosphere
- XL300 EGU2012-8297
I. Chuvashova, A. Mikolaichuk, and S. Rasskazov
Lithospheric low-volume volcanism in the Middle-Amur basin and Tien Shan: Inherited geochemical signatures of terrains originated in closed paleocean structures
- XL301 EGU2012-13597
N. Kudryashov and A. Mokrushin
Mesoarchean Gabbroanorthosite Magmatism of the Kola Region
- XL302 EGU2012-3691
N. Alymova
Picroilmenite xenoliths and xenocrysts in Yakutian kimberlites.
- XL303 EGU2012-7599
K. Kanayama, S. Umino, and O. Ishizuka
Eocene volcanism during the incipient stage of Izu-Ogasawara arc: Geology and petrology of the Mukojima Island Group, the Ogasawara Islands
- XL304 EGU2012-2556
S. Rasskazov and I. Chuvashova
Hard processing vs. episodic underplating of a terrain: isotopic signatures of mantle and crustal magmatic sources from the sub-continental lithosphere
- XL305 EGU2012-13948
L. Solovjeva, A. Goncharov, and T. Kalashnikova
The influence of Middle Paleozoic Yakutian plume on the geochemical modification of Siberian craton lithosphere
- XL306 EGU2012-8696
V. Babuska, J. Plomerova, and S.I. Karato
Continental growth by successive accretion of oceanic lithosphere: Evidence from tilted seismic anisotropy
- XL307 EGU2012-10186
L.S. Doucet, D.A. Ionov, G.P. Brey, A.V. Golovin, and I.V. Ashchepkov
Origin of garnet peridotites in the lithospheric mantle beneath the Siberian craton

GD2.5/GMPV6.12/SM4.3/TS10.9 – The tale of Laurasia cratons: new geophysical and geochemical evidence from Europe, Siberia, Greenland, and North America (co-organized) – Posters

Convener: I.M. Artemieva | Co-Conveners: S. V. Bogdanova, M. Kopylova

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: I.M. Artemieva, S.V. Bogdanova

- XL188 EGU2012-8627
J. Plomerova, L. Vecsey, V. Babuska, and LAPNET Working Group
Domains of Archean mantle lithosphere deciphered by seismic anisotropy - inferences from the LAPNET array in northern Fennoscandia
- XL189 EGU2012-8566
H. Silvennoinen, E. Kozlovskaya, E. Kissling, G. Kosarev and the POLENET/LAPNET Working Group Team
Compilation of Moho boundary map for northern Fennoscandian shield
- XL190 EGU2012-10695
I.M. Artemieva and H. Thybo
Crustal structure of Europe, Greenland, and North Atlantic: Synthesis and analysis

- XL191 EGU2012-6452
S. Reiche, **H. Thybo**, I. Reid, and A. Shulgin
Crustal structure beneath Central-Eastern Greenland
- XL192 EGU2012-4624
M. Dec, M. Malinowski, B. Nita, and E. Perchuc
An upper mantle model for a western rim of the East European Craton
- XL193 EGU2012-10102
I. Vejelyte, S. Bogdanova, K. Yi, and M. Cho
New SHRIMP zircon age constraints on the evolution of crystalline basement in Eastern Lithuania (East European Craton)
- XL194 EGU2012-10738
G Skridlaite, S Bogdanova, L. Taran, and J. Wiszniewska
The Palaeoproterozoic accretionary crustal growth: implications from new age data on the crystalline basement in Lithuania, NW Belarus and N Poland (the East European Craton)
- XL195 EGU2012-4143
O.B. Gintov and **S.V. Mychak**
The Ingul block of the Ukrainian Shield (the East European Craton): multiple stress changes during the Palaeoproterozoic tectonic evolution
- XL196 EGU2012-11762
S. V. Bogdanova, A.V. Postnikov, and E.V. Bibikova
The Volga-Don orocline stitching Volgo-Sarmatia
- XL197 EGU2012-7895
D. Gladkochub, T. Donskaya, and A. Mazukabzov
Crustal growth in southern Siberia: a Nd-isotope synthesis
- XL198 EGU2012-12162
Yu. Cherepanova and I.M. Artemieva
Linking crustal heterogeneity to the tectonic history: the case study of the Siberian craton and West Siberian Basin based on new regional crustal model
- XL199 EGU2012-2693
N. Bushenkova, V. Chervov, and I. Koulakov
Recent upper mantle structure beneath Siberia and surrounding areas according to a seismic tomography and numerical thermogravitational convection modeling data
- XL200 EGU2012-8870
M. Youssof, I. Artemieva, H. Thybo, and A. Frassetto
The crust and mantle beneath the Siberian provinces: a preliminary model based on new receiver function analysis
- XL201 EGU2012-8901
F. Cammarano, I.M. Artemieva, and H. Thybo
Effect of composition on the seismic structure of the Siberian lithosphere

Tuesday, 24 April

SM1.4/G6.2/GI1.6 – Integrating large-scale European Research infrastructures for solid Earth Sciences: from data centers to core services (co-organized) – Orals

Convener: M. Cocco | Co-Conveners: F. Boler, L. Demicheli, T. Eck Van, C. Thomas, R. Carbonell

Room: 32

Chairperson: Massimo Cocco

- 13:30–13:45 EGU2012-5086
J. Ludden, D. Giardini, M. Cocco, M. Diament, and J. Lauterjung
 Building a Roadmap for European Solid Earth Sciences Infrastructure
- 13:45–14:00 EGU2012-1453
M. Cocco and EPOS Consortium
 Integrating Research Infrastructures for solid Earth Science: the EPOS preparatory phase roadmap and achievements
- 14:00–14:15 EGU2012-11933
W. Lengert, H.-J. Popp, and J.-P. Gleyzes
 GEO Supersites Data Exploitation Platform
- 14:15–14:30 EGU2012-8428
S. Cloetingh
 TOPO-EUROPE: An integrated solid earth approach to Continental Topography and Deep Earth - Surface Processes in 4D
- 14:30–14:45 EGU2012-14249
L. Demicheli, J.N. Ludden, and F. Robida
 EuroGeoSurveys
- 14:45–15:00 EGU2012-2662
E. Kohler, H. Pedersen, A. Clémenceau, and R. Evans
 Governance of Large Scale Research Infrastructures: Tailoring Infrastructures to Fit the Research Needs
- Chairperson: Torild van Eck
- 15:30–15:45 EGU2012-11771
F. Boler and C. Meertens
 UNAVCO Data Center Initiatives in CyberInfrastructure for Discovery, Services, and Distribution of Data and Products
- 15:45–16:00 EGU2012-9536
W. Crawford, A. Brisbourne, G. D'Anna, E.R. Flüh, A. Galve, D. Graindorge, N. Harmon, T. Henstock, F. Klingelhöfer, G. Mangano, L. Matias, C. Peirce, V. Sallares, M. Schmidt-Aursch, F. Tilmann, and P. Voss
 Coordinating OBS Parks in Europe
- 16:00–16:15 EGU2012-10929
T. van Eck, R. Bossu, W. Hanka, S. Mazza, N. Melis, L. Ottemöller, A. Villasenor, J. Zednik, orfeus, and epos wg1
 Seismological observatories and research infrastructure within EPOS
- 16:15–16:30 EGU2012-9543
J.-P. Vilotte, M. Atkinson, A. Michelini, H. Igel, and T. van Eck
 The Virtual Earthquake and Seismology Research Community e-science environment in Europe (VERCE) FP7-INFRA-2011-2 project
- 16:30–16:45 EGU2012-6501
 W. Los and **S. Sorvari**
 Common operations of European Environmental Research Infrastructures
- 16:45–17:00 EGU2012-10994
M. Harrison, F. Thomas, and R. Tomas
 INSPIRE Natural Risk Zones Data Specification

SM1.4/G6.2/GI1.6 – Integrating large-scale European Research infrastructures for solid Earth Sciences: from data centers to core services (co-organized) – Posters

Convener: M. Cocco | Co-Conveners: F. Boler, L. Demicheli, T. Eck Van, C. Thomas, R. Carbonell

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Torild van Eck

- XY450 EGU2012-11097
T. van Eck, S. Mazza, L. Ottemöller, R. Sleeman, and J. Zednik
 EPOS WG1: Seismological observatories and research infrastructure: A comprehensive example from four countries
- XY451 EGU2012-10540
G. Puglisi, P. Bachelery, T.J.L. Ferreira, K.S. Vogfjörð and the EPOS Volcano Observations Working Group Team
 Initiative for the creation of an integrated infrastructure of European Volcano Observatories
- XY452 EGU2012-7493
R.M.S. Fernandes, L.C. Bastos, C. Bruyninx, N. D'Agostino, J. Dousa, A. Ganas, M. Lidberg, J.-M. Nocquet and the WG4 Members Team
 The Contribution of the Geodetic Community (WG4) to EPOS
- XY453 EGU2012-8459
C. Freda, F. Funicello, P. Meredith, L. Sagnotti, P. Scarlato, V.R. Troll, E. Willingshofer, and Epos-wg6
 A European Network of Analytical and Experimental Laboratories for Geosciences: Challenges and Perspectives
- XY454 EGU2012-5885
A. Michelini, V. Lauciani, S. Mazza, G. Fiameni, C. Cacciari, P. Wittenburg, and D. Lecarpentier
 EPOS e-infrastructure and EUDAT: the development of a Collaborative Data Infrastructure
- XY455 EGU2012-8740
J. Zednik and P. Hejda
 CzechGeo/EPOS - Building a national data portal
- XY456 EGU2012-4466
W. Debski, G. Mutke, J. Suchcicki, W. Jozwiak, P. Wiejacz, and J. Trojanowski
 Polish Geophysical Solid Earth Infrastructure Contributing to EPOS
- XY457 EGU2012-5164
 ED Debayle, **PB Barra**, HP Pedersen, and RESIF Working Group
 RESIF-SI : an information system to collect, archive and distribute French seismological and geodetic data
- XY458 EGU2012-6502
R. Leonhardt, P. Melichar, R. Steiner, B. Leichter, and J. Berger
 The Conrad Observatory: Geomagnetism at the new geophysical observatory in Austria
- XY459 EGU2012-11246
K. Atakan, P. Heikkinen, C. Juhlin, H. Thybo, and K. Vogfjord
 European Plate Observing System - the Arctic dimension and the Nordic collaboration
- XY460 EGU2012-13734
K. S. Vogfjörð, F. Sigmundsson, S. Hjaltadóttir, H. Björnsson, Þ. Arason, S. Hreinsdóttir, E. Kjartansson, R. Sigbjörnsson, B. Halldórsson, and G. Valsson
 Networking of Icelandic Earth Infrastructures - Natural laboratories and Volcano Supersites
- XY461 EGU2012-11426
T. Megies, R. Barsch, M. Beyreuther, L. Krischer, and J. Wassermann
 ObsPy: A Python Toolbox for Seismologists, Seismological Observatories and Data Centers
- XY462 EGU2012-13346
B. Pirenne and E. Guillemot
 Oceans 2.0: a Data Management Infrastructure as a Platform
- XY463 EGU2012-2274
C. Faccenna and F. Funicello
 The TOPOMOD-ITN project: unravel the origin of Earth's topography from modelling deep-surface processes
- XY464 EGU2012-4184
H. Igel and the QUEST Team
 The QUEST Project: Research and Training in Computational Seismology
- XY465 EGU2012-10938
 G. Suárez, T. van Eck, and **T. Ahern**
 The International Federation of Digital Seismograph Networks (FDSN): An example of open access to scientific data sharing
- XY466 EGU2012-1455
T. Ahern, C. Trabant, B. Weertman, R. Karstens, and Y. Suleiman
 Web services at the IRIS DMC to support integration of data sets

SM2.1/GD1.3/NH4.9/TS8.5 – Large Earthquake and Tsunami Activity (co-organized) – Orals

Convener: M. Bezzeghoud | Co-Conveners: E. Bufo, H. Hebert, H. M. Fritz

Room: 26

Chairperson: n.n.

- 08:30–08:45 EGU2012-4596
S. Stiros and P. De Jevonois Acillona
 The AD 365 giant earthquake and tsunami in the Eastern Mediterranean
- 08:45–09:00 EGU2012-8111
C. Larroque, O. Scotti, M. Ioualalen, V. Hassoun, and S. Migeon
 Reappraisal of the 1887 Ligurian earthquake (western Mediterranean) from macroseismicity, active tectonics and tsunami modelling
- 09:00–09:15 EGU2012-2634
E. Bufo, C. Pro, M. Bezzeghoud, and A. Udias
 Mechanism of 2003, 2007 and 2009 earthquakes (S. Vicente Cape) and implications for the 1755 Lisbon earthquake.
- 09:15–09:30 EGU2012-13242
R. M. L. Ferreira, D. Conde, R. Canelas, and M. A. Baptista
 Mathematical modeling of a tsunami propagating over the mobile bed reaches of the Tagus-Coia estuary
- 09:30–09:45 EGU2012-13267
S. Riquelme, S. Ruiz, Y. Yamazaki, and J. Campos
 Fault Parameters of the 1868 and 1877 earthquakes, inferred from historical records: Run-up measurements, Isoleismals and coseismic deformation
- 09:45–10:00 EGU2012-3638
Z. Zarifi and M. Raeesi
 Revisiting the November 27, 1945 Makran (Mw=8.2) interplate earthquake

COFFEE BREAK

Chairperson: n.n.

- 10:30–10:45 EGU2012-10297
A. Fuenzalida, H. Lyon-Caen, M. Lancieri, A. Rietbrock, and R. Madariaga
 The 2010 Maule earthquake: How far south did it break?
- 10:45–11:00 EGU2012-3844
C.-S. Lee, F. Klingelhoefer, M. Gutscher, M. Miller, and V. Gallardo
 The Aftershock Analyses of 27 February 2010 Chile M=8.8 Mega Earthquake
- 11:00–11:15 EGU2012-5501
M. Ando, M. Ishida, Y. Nishikawa, C. Mizuki, and Y. Hayashi
 What caused a large number of fatalities in the Tohoku earthquake?
- 11:15–11:30 EGU2012-3542
K. Satake, Y. Fujii, T. Harada, and Y. Namegaya
 Tsunami source model of the 2011 Tohoku earthquake and comparison with the 1896 Sanriku and 869 Jogan earthquakes
- 11:30–11:45 EGU2012-4273
Y. Ohta, R. Hino, D. Inazu, M. Ohzono, M. Mishina, J. Nakajima, Y. Ito, T. Sato, Y. Tamura, H. Fujimoto, K. Tachibana, T. Demachi, Y. Osada, M. Shinohara, and S. Miura
 Co- and postseismic slip distribution for the 2011 March 9 earthquake based on the geodetic data: Role on the initiation of the 2011 Tohoku earthquake
- 11:45–12:00 EGU2012-13168
H. M. Fritz, D.A. Phillips, A. Okayasu, T. Shimozone, H. Liu, F. Mohammed, V. Skanavis, C.E. Synolakis, and T. Takahashi
 2011 Japan tsunami survivor video based hydrograph and flow velocity measurements using LiDAR

SM2.1/GD1.3/NH4.9/TS8.5 – Large Earthquake and Tsunami Activity (co-organized) – Posters

Convener: M. Bezzeghoud | Co-Conveners: E. Bufo, H. Hebert, H. M. Fritz

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 15:30–17:00

Chairperson: n.n.

- XY467 EGU2012-11641
D. Tappin
 The impact of the 2011 Tohoku-oki tsunami in the Sendai area: interpretations of time series satellite images and videos.

- XY468 EGU2012-11588
A. Yalciner, F. Imamura, E. Mas, I. Necmioglu, C. Ozer, A. Zaytsev, S. Takahashi, T. Tomita, G. Yon, N. Kalligeris, H. Fritz, V. Skanavis, C. Synolakis, and N. Meral Ozel
 Field survey of the coastal impact of the March 11, 2011 great East Japan tsunami
- XY469 EGU2012-10999
V.E. Kunitsyn, I. A. Nesterov, S.L. Shalimov, B.Yu. Krysanov, A.M. Padokhin, and D. Rekenthaler
 Japan Tohoku Earthquake of March 11, 2011: GPS-TEC Evidence for the Ionospheric Disturbances with Application for Early Warning
- XY470 EGU2012-8986
H. Shimazu
 Geomorphic impacts of the 2011 tsunami on the lower reaches of the R. Natori, northeast Japan
- XY471 EGU2012-7238
J.S. Hwang, D.H. Lee, H.S. Yun, and B.I. Min
 Seismic Displacement Analysis of GPS Permanent Stations due to the Tohoku-Oki Mega-thrust Earthquake in Korea and Asian Regions
- XY472 EGU2012-6577
T. Harada and K. Satake
 A New View on the Space-Time Pattern of M>7 Earthquakes in the Northern Japan to Kurile Subduction Zones
- XY473 EGU2012-3916
A. Nishiyama, K. Satake, T. Yata, A. Urabe, and Y. Maejima
 The trial edition of historical earthquake data base in Japan
- XY474 EGU2012-11402
F. Waldhauser, D.P. Schaff, T.C. Diehl, and E.R. Engdahl
 Splay faults imaged by fluid-driven aftershocks of the 2004 Mw 9.2 Sumatra-Andaman earthquake
- XY475 EGU2012-2363
J.-Y. Lin, C.-L. Lo, J.-C. Sibuet, and S.-K. Hsu
 Crustal gravitational potential energy change induced by the Great Sumatra-Andaman earthquake of 26 December 2004
- XY476 EGU2012-3854
H. Haridhi, S. Rizal, M. Ridha, and C.S. Lee
 A Seismic Gap Study in the western offshore of Sumatra, Indonesia
- XY477 EGU2012-182
W. Renteria
 Tsunami Forecast for Galapagos Islands
- XY478 EGU2012-3588
P.-Y. Lai, B. F. Chao, E. T.-Y. Chang, and T.-R. Wu
 The Seismic Sources of the 2009 Samoa Earthquake from Tsunami Simulation
- XY479 EGU2012-4910
M. A. Baptista, J.M Miranda, J. Batlo, and H. Ferreira
 Tsunami flooding along Tagus estuary, Portugal, the 1531 event
- XY480 EGU2012-8821
S. Allgeyer, C. Daubord, H. Hébert, A. Loevenbruck, F. Schindelé, and R. Madariaga
 Could a 1755-like tsunami reach the French Atlantic coastline? Constraints from 20th century observations and numerical modeling.
- XY481 EGU2012-5829
G. Kulikova and F. Krüger
 The 1911 Chon-Kemin (M 8.3) earthquake in the Tien-Shan region*: preliminary investigation results by means of historical data.
- XY482 EGU2012-11649
M. Karpytchev, C. Daubord, H. Hebert, and G. Woppelmann
 Re-analysis of the Krakatoa Tsunami Records along the European Atlantic Coast
- XY483 EGU2012-12291
 K. Hodgkinson, **D. Mencin**, A. Borsa, B. Henderson, and W. Johnson
 Tsunami Signals Recorded By Plate Boundary Observatory Borehole Strainmeters
- XY484 EGU2012-10
S. Nakamura
 Note to Energy Source of Tsunami Earthquake on the Planet Earth
- XY485 EGU2012-4969
L. Ostrihansky
 Earthquake triggering, Earth's rotation variations, Meton's cycle and torques acting on the Earth.

GD4.2/SM2.8/TS5.3 – Evolution of the North and South Atlantic, adjacent continents, and passive continental margins, in general (co-organized) – Orals

Convener: U. A. Glasmacher | Co-Conveners: Dr.scient. Japsen, P. C. Hackspacher, H.-P. Bunge, M. Scheck-Wenderoth,

R.B. Trumbull, A. O. B. Franco-Magalhaes, F. Guillocheau

Room: 30

Chairperson: n.n.

08:30–08:45 EGU2012-10670

R.H. Gabrielsen, J.I. Faleide, and E.M. Jarsve

The evolution of the passive continental margin of Norway and its adjacent mainland - using the sub-Cambrian peneplain as a reference surface.

08:45–09:00 EGU2012-4177

N.M. Sushchevskaya, B.V. Belyatsky, and E.P. Dubinin

Mantle heterogeneity under spreading zones of polar regions of the Atlantic Ocean: sources and formation

09:00–09:15 EGU2012-6308

L. Colli, A. Fichtner, and H.-P. Bunge

Full waveform tomography of the South Atlantic upper mantle

09:15–09:30 EGU2012-6810

N. Flament, M. Gurnis, S. Williams, M. Seton, R. D. Müller, and J. Skogseid

A deep mantle origin for the asymmetry of the South Atlantic margins

09:30–09:45 EGU2012-4133

Y. P. Maystrenko, M. Scheck-Wenderoth, A. Hartwig, Z. Anka, A.B. Watts, K.K. Hirsch, S. Fishwick,

H.-J. Goetze, and C. Reichert

Regional structure of the Southwest African continental margin based on results of lithosphere-scale 3D gravity and thermal modelling

09:45–10:00 EGU2012-10576

N. Baristeas, Z. Anka, R. di Primio, J. F. Rodriguez, D. Marchal, and F. Dominguez

Tectono-stratigraphic analysis of the Malvinas Basin, offshore the southernmost Argentinean continental margin

COFFEE BREAK

Chairperson: n.n.

10:30–10:45 EGU2012-14206

R. D. Müller, N. Herold, and M. Huber

The Miocene Atlantic Ocean

10:45–11:00 EGU2012-6498

F. Guillocheau and O. Dauteuil

Post-rift uplift, paleorelief and sedimentary fluxes: the case example of the African margin of the South Atlantic

11:00–11:15 EGU2012-7659

P. Japsen, P.R. Cobbold, J.A. Chalmers, P.F. Green, and J.M. Bonow

Changes in plate motion and vertical movements along passive continental margins

11:15–11:30 EGU2012-7267

U. A. Glasmacher and P.C. Hackspacher

Postrift exhumation caused by movement along faults, shear, and fracture zones on both sides of the South Atlantic continental margins, an overview

11:30–11:45 EGU2012-11275

M.C. Bianchi, S. Clark, M. Smethurst, and H.-P. Bunge

Opening of the South Atlantic: Rate estimation for different models

11:45–12:00 EGU2012-3355

J. O'Connor, W. Jokat, A. le Roex, C. Class, J. Wijbrans, S. Keßling, K. Kuiper, and O. Nebel

Synchronous age progressive hotspot trails on the African Superswell

GD4.2/SM2.8/TS5.3 – Evolution of the North and South Atlantic, adjacent continents, and passive continental margins, in general (co-organized) – Posters

Convener: U. A. Glasmacher | Co-Conveners: Dr.scient. Japsen, P. C. Hackspacher, H.-P. Bunge, M. Scheck-Wenderoth, R.B. Trumbull, A. O. B. Franco-Magalhaes, F. Guillocheau

Hall XL | Display Time 08:00–19:30

Author in Attendance: 15:30–17:00

Chairperson: Guillocheau, Franco-Magalhaes

- XL201 EGU2012-1635
L. Pinna and T. Dahl-Jensen
Relocated local earthquakes in SE Greenland align on old geological boundaries and structures
- XL202 EGU2012-3543
E. Le Breton, P.R. Cobbold, and A. Zanella
Cenozoic right-lateral slip on the Great Glen Fault, Scotland: Additional Evidence and Possible Causes
- XL203 EGU2012-13090
R. Meyer, L. Schultz, B.W.H. Hendriks, D. Harbor, J. van Wijk, and C. Connors
Central Appalachian Valley and Ridge Province Cenozoic igneous activity and their relation in space and time with the Late Jurassic rift to drift related alkalic dikes.
- XL204 EGU2012-10992
R. Nerlich, S. R. Clark, and H.-P. Bunge
The Scotia Sea - no asthenosphere outlet from under the Pacific
- XL205 EGU2012-5866
M. Seher, **U. A. Glasmacher**, D. F. Stockli, O. Kluth, and H. Jabour
Variscan to Neogene thermal and exhumation history at the Moroccan passive continental margin assessed by low temperature thermochronology
- XL206 EGU2012-4916
S. Brune, S. V. Sobolev, and A. A. Popov
The Thermo-Mechanical Impact of Plume Arrival on Continental Break-Up
- XL207 EGU2012-5995
T. C. Chust, G. Steinle-Neumann, and H.-P. Bunge
Effects of Mineralogical Thermodynamics in Geodynamic Models
- XL208 EGU2012-8332
C. Heine, S. Brune, A. Young, J. Zoethout, N. Flament, and R. D. Müller
Kinematics of the South Atlantic rift
- XL209 EGU2012-4719
J. Freymark, J. Sippel, **M. Scheck-Wenderoth**, H.-J. Götze, and C. Reichert
Data based 3D modelling of the southwest African continental margin
- XL210 EGU2012-12072
R. B. Trumbull, D. Franke, W. Jokat, Y. Maystrenko, M. Scheck-Wenderoth, M. Schnabel, and B. Schreckenberger
Comparative anatomy of volcanic rifted margins in the South Atlantic, with emphasis on the high-velocity lower crust
- XL211 EGU2012-7502
F. Strozyk, S. Back, and P.A. Kukla
Comparative analysis of post-breakup basin evolution along the South-American and South-African margins, southern Atlantic
- XL212 EGU2012-4896
H. Koopmann, A. Hartwig, H. Schulz, B. Schreckenberger, and D. Franke
New findings on the aspect of margin segmentation along the South African margin
- XL213 EGU2012-6689
E. Rossello, O.R. López-Gamundí, G. Veroslavsky, and H. de Santa Ana
The Santa Lucia-Aiguá-Merin rifting (Uruguay): an early aborted branch of the South Atlantic break-up
- XL214 EGU2012-7203
V.F. Sachse, Z. Anka, R. di Primio, O. Almendra, H. Belotti, and M. Cagnolatti
Meso- to Cenozoic seismostratigraphic units of the Austral Basin, southern Argentina
- XL215 EGU2012-4268
J. Gruetzner, G. Uenzelmann-Neben, and D. Franke
Seismic reflection imaging of a canyon system at the Argentine continental margin to identify changes in sediment transport und ocean circulation
- XL216 EGU2012-6489
A.C. Chaboureaud, **F. Guillocheau**, C. Robin, S. Rohais, M. Moulin, and D. Aslanian
Palaeogeographic evolution of the central segment of the South Atlantic during Early Cretaceous times: palaeotopographic and geodynamic implications
- Hall XL | Display Time 08:00–19:30**
Author in Attendance: 17:30–19:00
Chairperson: Trumbull, Bunge
- XL217 EGU2012-12726
A. Døssing, P. Japsen, T. Nielsen, H. Thybo, and T. Dahl-Jensen
Link between Mid-Ocean Ridge kinematics and uplift of passive continental margins
- XL218 EGU2012-6654
P. C. Hackspacher, I.A. Souza, S.H. Almeida, and U.A. Glasmacher
Tectonic relations between shallow and deep crust in the southeastern Brazilian continental margin: low temperature thermochronology, gravimetry and seismic reflection

- XL219 EGU2012-592
A. O. B. Franco-Magalhaes, U. A. Glasmacher, I. A. De Souza, A. R. Saad, and P. C. Hackspacher
Tectonically driven differentiated exhumation along S-SE Brazilian "Passive " Continental Margin
- XL220 EGU2012-4001
M.P. Karl, **U.A. Glasmacher**, P.C. Hackspacher, D.F. Stockli, and A.O.B. Franco-Magalhaes
Evolution of the South Atlantic passive continental margin in Southern Brazil derived from zircon and apatite (U-Th-Sm)/He and fission-track data
- XL221 EGU2012-5881
N. Cogné, K. Gallagher, P.R. Cobbold, and C. Riccomini
Thermochronological evidence for polyphase post-rift reactivation in SE Brazil
- XL222 EGU2012-867
J. de Souza Silva, U. Glasmacher, and P. Hackspacher
Denudation history of Cretaceous intrusions on both sides of the South Atlantic, Brazil - Namibia.
- XL223 EGU2012-887
D.F. Godoy, P.C. Hackspacher, and U.A. Glasmacher
Pre-rifting evolution of Neoproterozoic to Cambrian low to high grade metamorphic rocks of the South Atlantic passive continental margin, as revealed by 40Ar/39Ar and Zircon Fission-Track thermochronology, SE Brazil
- XL224 EGU2012-4025
S. Kollenz, **U. A. Glasmacher**, E. A. Rossello, and R. Pereyra
Thermal history and evolution of the South Atlantic passive continental margin in eastern Argentina based on different geochronometers and 2D- and 3D-modelling
- XL225 EGU2012-11071
E. Salomon, D. Koehn, C.W. Passchier, P.C. Hackspacher, and U.A. Glasmacher
Shear zone reactivation during South Atlantic rifting in NW Namibia
- XL226 EGU2012-4006
M.P. Karl, M.J. Perner, **U.A. Glasmacher**, P.C. Hackspacher, and G. Schneider
Exhumation rates and long-term landscape evolution, Northwest Namibia
- XL227 EGU2012-11434
F.U. Bauer, U.A. Glasmacher, U. Ring, M. Starz, R.W. Grobe, and V.S. Mambo
Initial rifting and long-term landscape evolution of the Albertine Rift in East Africa
- XL228 EGU2012-7309
U. A. Glasmacher, F.U. Bauer, S. Kollenz, and D. Delvaux
Evolution of the Congo Basin
- XL229 EGU2012-6160
J. Juliã, I.D. Bastow, R. Nascimento, A.F. Nascimento, M.P. Rocha, J.M. Ferreira, and R.A. Fuck
Unraveling the Structure and Dynamics of the Borborema Province, NE Brazil, With Broadband Seismology
- XL230 EGU2012-10073
G. Kapinos, O. Ritter, U. Weckmann, and M. Jegen-Kulcsar
On/offshore deep electrical conductivity structure to investigate the Walvis Ridge magmatism and its interaction with the Kaoko Mobile Belt in northern Namibia (ELCONA)
- XL231 EGU2012-12413
J.K. Keiding, O. Frei, A. Renno, I.V. Veksler, and R.B. Trumbull
Magma storage and evolution in the Henties Bay-Outjo dyke swarm, Namibia -feeder systems of the Etendeka lavas

SM3.4/TS9.10 – Active seismic investigations of the Earth's crust (co-organized) – Orals

Convener: Dr. Malehmir | Co-Conveners: S. Buske

Room: 26

Chairperson: Alireza Malehmir and Stefan Buske

- 15:30–15:45 EGU2012-3939
Z. Zhang, Z.M. Bai, and J.W. Teng
Crustal structure across East Tibet from wide-angle seismic profile between Xiazhayu, Xizang and Gonghe, Qinghai
- 15:45–16:00 EGU2012-504
M. Andersson, A. Malehmir, M. Dehghannejad, V. R. Troll, and M. Ask
A reflection seismic study of the Alnö alkaline and carbonatite igneous complex
- 16:00–16:15 EGU2012-10660
H. Sato, T. Iwasaki, T. Ishiyama, S. Abe, and N. Kato
Seismic investigation of the plate boundary beneath Mt. Fuji, the Izu collision zone, central Japan
- 16:15–16:30 EGU2012-3074
D. Sopher and C. Juhlin
Seismic reprocessing of 2D marine seismic reflection data from the Baltic Sea

16:30–16:45 EGU2012-5132

S. Gutjahr and S. Buske

Seismic Images of the Non-Volcanic Tremor Region around Cholame, California, USA

16:45–17:00 EGU2012-6799

Y.-P. Lin, L. Zhao, and S.-H. Hung

Shallow Crustal Structure in Northern Taiwan from the TAIGER Active-Source Experiment

SM3.4/TS9.10 – Active seismic investigations of the Earth's crust (co-organized) – Posters

Convener: Dr. Malehmir | Co-Conveners: S. Buske

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Stefan Buske and Alireza Malehmir

XY486 EGU2012-6127

N. Mullick, S. Buske, S. Shapiro, P. Wigger, B. Ruzek, J. Horalek, P. Hrubcova, and T. Fischer
Reflection seismic investigation of the geodynamically active West-Bohemia/Vogtland region

XY487 EGU2012-1925

L. Moreira, **M. Friedel**, and G. França

Uncertainty in crustal imaging of the Paraná basin, Brazil

XY488 EGU2012-11502

T. Ishiyama, N. Kato, H. Sato, T. Takeda, and S. Abe

Multi-scale seismic reflection imaging of active fold-and-thrust belts in Niigata backarc basin in central Japan

XY489 EGU2012-2152

J.D. Eccles, G. Lamarche, R. Wysoczanski, I. Wright, F. Caratori Tontini, C. Kenedi, and C. Castellazzi
KARMA reveals true origins of the Kermadec Ridge, north of New Zealand

XY490 EGU2012-2211

Y. F. Chen, J. Y. Lin, C. S. Lee, S. K. Hsu, and C. W. Liang

Seismotectonics of the Gagua Ridge area from OBS data

XY491 EGU2012-2912

V. Starostenko, W. Czuba, M. Grad, O. Gintov, D. Gryn, A. Guterch, E. Heged?s, **T. Janik**, K. Kolomiyets, K. Komminaho, R. Kutas, O. Legostaeva, D. Lysynchuk, V. Omelchenko, P. ?roda, R. Stephenson, H. Thybo, T. Tiira, and A. Tolkunov

Velocity model of the crust and upper mantle along the profile PANCAKE from Pannonian basin across Carpathians towards the cratonic Europe

XY492 EGU2012-4236

H. Shahrokhi, A. Malehmir, and D. Sopher

New insights on shallow and deep crustal geological structures of BABEL line 7 marine reflection seismic data revealed from reprocessing

XY493 EGU2012-3743

G. Laske, G. Masters, Z. Ma, and M.E. Pasyanos

CRUST1.0: An Updated Global Model of Earth's Crust

XY494 EGU2012-4302

E. Koivisto, A. Malehmir, P. Heikkinen, S. Heinonen, and I. Kukkonen

2D reflection seismic investigations in the Kevitsa Ni-Cu-PGE deposit, northern Finland

XY495 EGU2012-6218

L. Urbanek and **S. Buske**

Seismic imaging of the near-surface structure at the San-Andreas-Fault system near the SAFOD drill site (Parkfield, California)

XY496 EGU2012-10822

H. Sato, S. Abe, N. Kawai, H. Saito, N. Kato, T. Ishiyama, T. Iwasaki, E. Kurashimo, M. Inaba, and A. Van Horne

Crustal architecture of an inverted back arc rift basin, Niigata, central Japan

XY497 EGU2012-10643

S. Heinonen, D.B. Snyder, P.J. Heikkinen, and I.T. Kukkonen

Seismic reflection profiling employed in the 3D-modeling of mineralized regions: A case study from Pyhäsalmi VHMS-deposit, Finland

XY498 EGU2012-10203

P. Sroda and P. Hrubcova

Full waveform modelling of the anomalous upper mantle seismic phases in the Western Carpathians - a trace of the plates contact at the Moho level?

XY499 EGU2012-4520

A. Guterch, **M. Malinowski**, A. Maksym, J. Probulski, M. Majda?ski, M. Narkiewicz, W. Czuba, E. Gaczy?ski, M. Grad, T. Janik, L. Jankowski, and P. ?roda

POLCRUST - a deep reflection seismic profile across the Trans-European Suture Zone in SE Poland

- XY500 EGU2012-6853
N. Kato, T. Ishiyama, H. Sato, H. Saito, E. Kurashimo, and S. Abe
 Active emergent thrust associated with a detachment fold: A case study of the eastern boundary fault of Takada plain, central Japan
- XY501 EGU2012-10126
T. Tiira, T. Janik, E. Kozlovskaya, M. Grad, A. Korja, K. Komminaho, E. Hegedüs, C.A. Kovács, H. Silvennoinen, and E. Brückl
 New seismic Vp- and Vp/Vs- models of HUKKA 2007 wide-angle reflection and refraction profile in northern Fennoscandian Shield
- XY502 EGU2012-2652
I. Lahti, T. Korja, M. Smirnov, K. Vaittinen, E. Sandgren, T. Niiranen, and V. Nykänen
 3-D imaging of the Central Lapland Greenstone Belt using magnetotelluric and seismic data
- XY503 EGU2012-7567
U. Herter and W. Jokat
 Crustal structure across the Filchner Ronne Shelf, Antarctica
- XY504 EGU2012-8553
 A. Goepel, **M. Krause**, and N. Kukowski
 Seismic Imaging of the Thuringian Basin, Central Germany, in the framework of INFLUINS

TS9.5/G3.5/GD8.6/GM3.6/GMPV6.20/SM3.5 – Crustal faulting and deformation processes observed by InSAR, GPS and modelling techniques (co-organized) – Orals

Convener: T. R. Walter | Co-Conveners: R. Malservisi, R. Lanari, T. Dixon, F. Zucca, M. Shirzaei

Room: 11

Chairperson: Walter / Shirzaei

- 10:30–10:45 EGU2012-10002
E. Sansosti
 The impact of new generation SAR sensors in ground deformation studies
- 10:45–11:00 EGU2012-13821
 R.F. Hanssen, **M. Caro Cuenca**, A. Hooper, P. Mahapatra, M. Arikan, and D. Bekaert
 New trends in InSAR time series analysis for wide area deformation mapping
- 11:00–11:15 EGU2012-10784
E. Cetin, Z. Cakir, A.M. Akoglu, S. Ergintav, U. Dogan, H. Ozener, and M. Meghraoui
 Persistent Scatterer InSAR time series analysis of the creeping section of the North Anatolian Fault at Ismetpasa
- 11:15–11:30 EGU2012-12569
K. Hodgkinson, D. Mencin, A. Borsa, O. Fox, C. Walls, and E. Van Boskirk
 Recording Plate Boundary Deformation Processes Around The San Jacinto Fault, California
- 11:30–11:45 EGU2012-10391
G. Ducret, M. P. Doin, R. Grandin, A. Socquet, C. Vigny, M. Métois, and M. Béjar-Pizarro
 Measurement of interseismic strain accumulation in the Southern Andes (25°–35°S) using Envisat SAR data
- 11:45–12:00 EGU2012-3234
R. Barzaghi, A. Borghi, and A. Kunzle
 Statistical inference in comparing DInSAR and GPS data in fault areas

LUNCH BREAK

Chairperson: Zucca / Lanari

- 13:30–13:45 EGU2012-7144
S. Jónsson
 Probing Mechanical Properties of Rock with InSAR
- 13:45–14:00 EGU2012-3919
J.-C. Lee, H. T. Chu, S. H. Chang, W. J. Huang, C. H. Mu, and H. Y. Chen
 Frictional properties of a rapid creeping mega-thrust: a case study of the Chihshang Fault in eastern Taiwan
- 14:00–14:15 EGU2012-3125
R.A. Bennett, S. Ventkataramani, J.N. McElwaine, and J.M. Restrepo
 Geodetic expressions of upper mantle dynamics?

- 14:15–14:30 EGU2012-10604
K.H. Spaans, F. Sigmundsson, S. Hreinsdóttir, and B.G. Ófeigsson
 High resolution surface deformation measurements in Iceland's Northern Volcanic Zone: Unraveling multiple deformation sources using InSAR and GPS
- 14:30–14:45 EGU2012-2331
P. J. González, K. F. Tiampo, M. Palano, F. Cannavò, and J. Fernández
 Concurrent tectonic and aquifer-compaction deformation around Lorca (SE, Spain)
- 14:45–15:00 EGU2012-9635
S. Rieger, N. Adam, and A.M. Friedrich
 Quantification of crustal deformation based on analysis of Persistent Scatterer Interferometry of W-Crete
- Chairperson: Malservisi / Dixon
- 15:30–15:45 EGU2012-7409
S. Metzger, S. Jónsson, G. Danielsen, S. Hreinsdóttir, F. Jouanne, and T. Villemin
 The accumulated seismic moment of the locked Húsavík-Flatey fault, North Iceland, derived from an interseismic model using GPS time-series 1997-2010
- 15:45–16:00 EGU2012-4404
P. Teatini, A. Lovison, C. Janna, and A. Ferretti
 Three-dimensional seasonal deformations induced by underground gas storage. Monitoring by PSI and modeling by FE
- 16:00–16:15 EGU2012-5510
N. Gourmelen, A. Shepherd, D. Angus, Q. Fisher, D. Lesnic, and A. Gouldson
 Quantifying the success of onshore carbon capture and storage from surface deformation measurement and geo-mechanical modeling
- 16:15–16:30 EGU2012-2946
R. Castaldo, P. Tizzani, A. Manconi, M. Manzo, S. Pepe, A. Pepe, and R. Lanari
 3D time dependent thermo-fluid dynamic model of ground deformation at Campi Flegrei caldera
- 16:30–16:45 EGU2012-4654
 V. Poncos, **F. Serban**, D. Teleaga, V. Ciocan, M. Sorin, D. Caranda, F. Zamfirescu, M. Andrei, S. Copaescu, M. Radu, and V. Raduca
 Water induced geohazards measured with spaceborne interferometry techniques
- 16:45–17:00 EGU2012-9299
J. Ruch, J. Warren, F. Risacher, T.R. Walter, and R. Lanari
 Salt lake deformation detected from space

TS9.5/G3.5/GD8.6/GM3.6/GMPV6.20/SM3.5 – Crustal faulting and deformation processes observed by InSAR, GPS and modelling techniques (co-organized) – Posters

Convener: T. R. Walter | Co-Conveners: R. Malservisi, R. Lanari, T. Dixon, F. Zucca, M. Shirzaei

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: T. R. Walter , R. Malservisi , R. Lanari , T. Dixon , F. Zucca

- A501 EGU2012-1064
R. Eco, A.M.F. Lagmay, and M.G. Bato
 Investigating ground deformation and subsidence in Northern Metro Manila, Philippines using Persistent Scatterer Interferometric Synthetic Aperture Radar (PSInSAR)
- A502 EGU2012-1395
S.-B. Yu, Y.-J. Hsu, T. Bacolcol, C.-C. Yang, Y.-C. Tsai, and R. Solidum
 Present-day Crustal Deformation along the Philippine Fault in Luzon, Philippines
- A503 EGU2012-2176
E. Davis and S. Marsic
 Use of Deformation Based Reservoir Monitoring for Early Warning Leak Detection
- A504 EGU2012-2463
S. Zerbini, C. Prati, G. Cappello, M. Errico, and F. Novali
 Observing crustal deformation and atmospheric signals from COSMO-SKYMED and GPS data
- A505 EGU2012-2483
C. Tolomei, E. Trasatti, S. Atzori, J. Merryman, A. Antonioli, G. Pezzo, and S. Salvi
 The Mw 7.2 Van Earthquake (2011): co-seismic and post-seismic deformation imaged by DInSAR data, and source modeling
- A506 EGU2012-3479
Y.-J. Hsu, M. Simons, C.A. Williams, and E. Casarotti
 3-D FEM derived elastic Green's functions for the coseismic deformation of the 2005 Mw 8.7 Nias-Simeulue, Sumatra earthquake

- A507 EGU2012-3895
M. Rupprechter, A. Roepert, and G Hoffmann
Differential GPS measurements as a tool to quantify Late Cenozoic crustal deformation (Oman, Arabian Peninsula)
- A508 EGU2012-3992
Y.-A. Chen, C.-P. Chang, and J.-Y. Yen
Interferometric SAR time series analysis for measuring the surface deformation caused by the 1999 Chi-Chi earthquake in Taiwan
- A509 EGU2012-4159
J.-Y. Yen, C.-P. Chang, and Y.-I. Wen
Spatial and temporal variations of surface deformation along the Longitudinal Valley, eastern Taiwan, observed by Persistent SAR Interferometry using ERS, Envisat, and ALOS archives
- A510 EGU2012-4329
T. Yamasaki and G.A. Houseman
The crustal viscosity gradient measured from post-seismic deformation: a case study of the 1997 Manyi (Tibet) earthquake
- A511 EGU2012-2209
W.-J. Huang and K. M. Johnson
Strain accumulation across the Aksay segment of Altyn Tagh fault: Investigation of the influence of laterally varying lithospheric properties and a low-viscosity channel
- A512 EGU2012-5914
D.U. Sanli, K. Coban, V. Akarsu, and E. Arslan
Effect of Span of GPS Campaigns on Estimated Static Positioning Velocities
- A513 EGU2012-5940
M. Moreno, D. Melnick, M. Rosenau, J. C. Baez, J. Klotz, O. Oncken, A. Tassara, J. Chen, K. Bataille, M. Bevis, A. Socquet, C. Vigny, B. Brooks, I. Ryder, B. Smalley, M. Bartsch, V. Grund, and H. Hase
Tectonic control on the Mw 8.8 2010 Maule Chile earthquake
- A514 EGU2012-8444
C. Völksen and M. Hackl
Crustal Deformation and Seismicity in Southern Bavaria revealed by GNSS observations
- A515 EGU2012-10099
P. Kourkoulis, T. Strozzi, and U. Wegmüller
Ground-motion monitoring in the Venice Lagoon using combined DInSAR and Persistent Scatterer Interferometry
- A516 EGU2012-11035
R. Barzaghi, **A. M. Marotta**, R. Splendore, and A. Borghi
A new procedure to build a model covariance matrix: first results
- A517 EGU2012-11308
C. Bignami, M. Chini, C. Kyriakopoulos, and S. Stramondo
Seismic swarm detection by satellite DInSAR technique in the south-west Peloponnese, Greece
- A518 EGU2012-11474
A. Schenk and **M. Westerhaus**
Upgrading InSAR observations by combination with leveling data to understand small scale deformation processes
- A519 EGU2012-13947
J. Ha, K.-D. Park, J. Won, and M.-B. Heo
GPS-based Analysis of the Crustal Deformation of the Korean Peninsula due to the Tohoku-Oki Earthquake
- A520 EGU2012-12973
M. Mantovani and H.-G. Scherneck
Observation of Crustal Deformation around the Pärvie Postglacial Fault, Lapland, Sweden, using InSAR techniques
- A521 EGU2012-12176
A. Gualandi, E. Serpelloni, L. Anderlini, and M.E. Belardinelli
Space-time evolution of postseismic afterslip following the Mw 6.3, 2009 L'Aquila earthquake (central Italy) from principal component analysis inversion of GPS position time-series.
- A522 EGU2012-11428
C. Bignami, C. A. Brunori, M. Chini, C. Kyriakopoulos, D. Melini, M. Moro, M. Picchiani, M. Saroli, and S. Stramondo
DInSAR techniques for studying the October 23, 2011, Van earthquake (Turkey), and its relationship with neighboring structures
- A523 EGU2012-10733
K. Wiencke, T. R. Walter, M. Manzo, A. Manconi, G. Solaro, and R. Lanari
InSAR time series monitoring at Istanbul city shows faulting, landslides and soil compaction
- A524 EGU2012-12631
S. H. Jaramillo, G. Suárez, and P. López-Quiroz
Subsidence history of the city of Morelia, Mexico based on InSAR images processed as time series

- A525 EGU2012-1591
A. Caporali, F. Neubauer, G. Stangl, and D. Zuliani
Modeling surface velocities in the Southern and Eastern Alps by finite dislocations at crustal depths
- A526 EGU2012-4642
C.-C. Kang, C.-C. Chang, L.L. Siame, and J.-C. Lee
Recent surface deformation and its geodynamic insights for the Ilan Plain: an extensional basin in northern Taiwan orogenic belt
- A527 EGU2012-5130
Y.-C. Chan, K.-J. Chang, R.-J. Chen, J.-C. Lee, Y.-C. Hsieh, and K.-S. Chen
Evidence for Active Normal Faulting in Northern Taiwan and its Seismogenic Implications
- A528 EGU2012-6802
G. Lin, W.-L. Chang, C.-Y. Chiu, and C.-P. Chang
Transition of Ground Uplift and Kinematic Model in Southwestern Taiwan from PSI and GPS Observations
- A529 EGU2012-9846
Z. Mousavi, E. Pathier, A. Walpersdorf, C. Lassere, F. Tavakli, and H. Nankali
InSAR Time Series Analysis of Interseismic Deformation in Eastern Iran
- A530 EGU2012-11011
Z. Çakir, S. Ergintav, H. Ozener, U. Dogan, A.M. Akoglu, M. Meghraoui, and R. Reilinger
Fault weakening and onset of aseismic creep on mature strike-slip faults
- A531 EGU2012-12517
S.M. Razeghi, A.A. Amiri Simkooei, and M.A. Sharifi
Realistic Noise Assessment and Strain Analysis of Iranian Permanent GPS Stations

SM3.9 – Imaging the shallow subsurface with seismic and GPR methods – Orals

Convener: L. Nielsen | Co-Conveners: K. Holliger, MJY Yedlin, H. Maurer

Room: 26

Chairperson: L. Nielsen, M. Yedlin

- 13:30–13:45 EGU2012-8593
M. Oberroehrmann, A. Klotzsche, J. van der Kruk, and H. Vereecken
Optimizing acquisition setup for full-waveform inversion of cross-hole GPR data using checkerboard test
- 13:45–14:00 EGU2012-1541
C. Schmelzbach, J. Tronicke, and P. Dietrich
Impedance estimation from surface-based GPR reflection data
- 14:00–14:15 EGU2012-8966
J.S. Buchner, S. Schneider, X. Pan, U. Wollschläger, and K. Roth
Retrieving water content dynamics and complex subsurface structures from multi-offset GPR measurements
- 14:15–14:30 EGU2012-3323
L. Auer, S. A. Greenhalgh, H. R. Maurer, S. Marelli, and A. Nuber
A critical appraisal of asymptotic 3D-to-2D data transformation filters and the potential of complex frequency 2.5-D modeling in seismic full waveform inversion
- 14:30–14:45 EGU2012-2947
J. G. Rubino, L. B. Monachesi, L. Guarracino, T. M. Müller, and K. Holliger
Do seismic waves and fluid flow sense the same permeability in fluid-saturated porous rocks?
- 14:45–15:00 EGU2012-321
E. Lundberg, A. Malehmir, C. Juhlin, and M. Bastani
Investigating a clay landslide site using 3D P-wave reflection seismics in Lilla Edet, Sweden

SM3.9 – Imaging the shallow subsurface with seismic and GPR methods – Posters

Convener: L. Nielsen | Co-Conveners: K. Holliger, MJY Yedlin, H. Maurer

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: K. Holliger; H. Maurer

- XY505 EGU2012-2381
B. Quintal and **M. Frehner**
Effects of permeability barriers and pore fluids on S-wave attenuation
- XY506 EGU2012-1277
M. Er, D. Dondurur, and G. Çifçi
AVO Analysis of a Shallow Gas Accumulation in the Marmara Sea

- XY507 EGU2012-5704
M. Mele, A. Bini, S. Bassi, M. Giudici, M. Monti, and M. Azzola
 Single-Station Passive Seismic Stratigraphy for the characterization of subsurface structure of the Valtellina valley (central Alps, northern Italy)
- XY508 EGU2012-3175
 U. Polom, **C.M. Krawczyk**, A. Malehmir, and M. Bastani
 Reflection seismic mapping of shallow quick-clay landslides in Sweden - new insights from shear-wave surveying
- XY509 EGU2012-3918
H.S Kang, S.C Park, S.T Lee, B.G Jo, and Y.S Jeon
 Site characteristics of KMA seismic stations determined by ambient noise analysis
- XY510 EGU2012-3983
L. Lambrecht and W. Friederich
 Simulation of seismic wave propagation for reconnaissance in machined tunnelling
- XY511 EGU2012-6129
Q. Li and S. Dehler
 E-x method for seismic trace interpolation
- XY512 EGU2012-6394
M. Milani, J. G. Rubino, L. Baron, and K. Holliger
 Unraveling seismic attenuation mechanisms in saturated alluvial sediments
- XY513 EGU2012-5792
R. Sidler, K. Holliger, and J. M. Carcione
 Simulation of poro-elastic seismic wave propagation in axis-symmetric open and cased boreholes
- XY514 EGU2012-319
T. Akimova, J.-M. Marthelot, and M. Zillmer
 Shallow seismic exploration of the Keuper layers outcropping on the shoulders of the Rhine Graben using P and S waves
- XY515 EGU2012-1889
L. V. Socco, F. Garofalo, P. Bergamo, L. A. Konstantaki, and S. Carpentier
 Joint inversion of surface wave and body wave data for the characterisation of a fault system in New Zealand
- XY516 EGU2012-10593
 B. Heinze, **W. Wiyono**, U. Polom, and C.M. Krawczyk
 High-resolution reflection seismics in pyroclastic sediments - a case study from the SESaR-project in Indonesia
- XY517 EGU2012-6366
R. J. Ferguson, M.J. Yedlin, and L. Nielsen
 Prestack depth migration of bistatic georadar data
- XY518 EGU2012-9054
M.U. Hede, L. Nielsen, L.B. Clemmensen, N. Noe-Nygaard, and J.M. Hansen
 Testing sea-level markers observed in ground-penetrating radar data from Feddet, south-eastern Denmark
- XY519 EGU2012-7565
D. Wilken, E. Erkul, V. Glomb, and W. Rabbel
 Mapping buried parts of a megalithic tomb with multichannel analysis of Rayleigh-waves and GPR
- XY520 EGU2012-13067
P. Tábořík, M. Karousová, P. Štěpánčíková, and T. Fischer
 Subsurface image of the Mariánské Lázně Fault (Czech Republic) by 3-D GPR and DC resistivity measurement
- XY521 EGU2012-1412
 Y. Jeng*, **H.-M. Yu****, and C.-S. Chen
 Instantaneous attribute profiling of GPR data using the HHT technique
- XY522 EGU2012-11484
M. Ercoli, C. Pauselli, A. Frigeri, E. Forte, and C. Federico
 2D-3D GPR signature of shallow faulting in the Castelluccio di Norcia basin (Central Italy).

GD3.6/GMPV6.11/SM4.1/TS1.3 – The lithosphere-asthenosphere boundary (LAB) depth paradox (co-organized) – Orals

Convener: U. Achauer | Co-Conveners: J. Plomerova, M. Ballmer

Room: 30

Chairperson: Ballmer, Plomerova

- 13:30–14:00 EGU2012-1188
S. Karato and T. Olugboji
 On the origin of the asthenosphere

- 14:00–14:15 EGU2012-6947
J. C. Afonso, J. Fullea, Y. Yang, A. G. Jones, W. L. Griffin, J.A.D. Connolly, S. Y. O'Reilly, and S. Lebedev
 The compositional and thermal structure of the lithosphere from thermodynamically-constrained multi-observable probabilistic inversion
- 14:15–14:30 EGU2012-6735
 R J M Farla, **I Jackson**, J D Fitz Gerald, U H Faul, and M E Zimmerman
 Dislocation Damping and Anisotropic Seismic-wave Attenuation in the Earth's Upper Mantle
- 14:30–14:45 EGU2012-11738
M. D. Long
 Understanding the nature of the lithosphere, asthenosphere, and the boundary between them: Constraints from seismic anisotropy
- 14:45–15:00 EGU2012-7549
C A Rychert
 SS Precursor and Receiver Function Imaging of the Lithosphere Asthenosphere Boundary

GD3.6/GMPV6.11/SM4.1/TS1.3 – The lithosphere-asthenosphere boundary (LAB) depth paradox (co-organized) –

Posters

Convener: U. Achauer | Co-Conveners: J. Plomerova, M. Ballmer

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Achauer

- XL180 EGU2012-2063
F. Sodoudi, E. Kaestle, and R. Kind
 Imaging the Lithosphere-Asthenosphere Boundary beneath South Africa and Madagascar using S receiver functions
- XL181 EGU2012-3273
M. D. Ballmer, C. P. Conrad, and E. I. Smith
 Basaltic continental intraplate volcanism as sustained by shear-driven upwelling
- XL182 EGU2012-4994
N. Mohammadi, F. Sodoudi, and M.S Mirkamali
 Estimation of LAB depth in Zagros, Central Iran and Alborz zones using S receiver function method
- XL183 EGU2012-7832
 A. Souriau, L. Rivera, A. Maggi, and **J.-J. L  v  que**
 Attenuation in the Australian-Antarctic region from multiple ScS waves
- XL184 EGU2012-8860
L. Vecsey, J. Plomerova, V. Babuska, and PASSEQ working group
 Mantle lithosphere fabrics around the TESZ
- XL185 EGU2012-12358
A. Levander, K. Liu, R. Porritt, R. Allen, and Y. Yang
 The Seismic Structure of the Mantle Wedge under Cascade Volcanoes, Northwestern U.S.A.
- XL186 EGU2012-4996
R. Kind, P. Kumar, X. Yuan, J. Mechie, F. Sodoudi, and B. Heit
 The lithosphere-asthenosphere boundary observed with USArray receiver functions and comparison with other regions
- XL187 EGU2012-7381
G. Burgos, J.-P. Montagner, E. Beucler, J. Trampert, M. H. Ritzwoller, Y. Capdeville, and N. M. Shapiro
 Lithosphere/Asthenosphere Boundary depth inferred from global surface wave tomography
- XL188 EGU2012-8782
J. Plomerova, V. Babuska, L. Vecsey, and PASSEQ working group
 Lithosphere - asthenosphere boundary (LAB) around the Trans-European Suture Zone (TESZ)
- XL189 EGU2012-10191
J.R.R. Ritter, C. Seiberlich, and B. Wawerzinek
 The lithosphere-asthenosphere and crust-mantle boundaries in the region of the Upper Rhine Graben as seen by S-wave receiver functions
- XL190 EGU2012-10899
L. Fleitout, O Trubienko, J-D Garaud, and GEOTECDI team
 Far away motions associated with giant subduction earthquakes and the mechanical properties of the lithosphere-asthenosphere system

NH4.2/NP7.4/SM5.3/TS8.7 – Fracture and earthquake physics: modeling precursory phenomena and seismic hazard also with nonlinear seismology (including Plinius Medal Lecture) (co-organized) – Orals

Convener: F. Vallianatos | Co-Conveners: P. Sammonds, V. Lapenna, G. Marmureanu, R. Madariaga, GF Panza

Room: 1

Chairperson: G. Marmureanu

- 13:30–13:45 EGU2012-2243
G. Marmureanu, C.O. Cioflan, and A. Marmureanu
 Nonlinear seismology a reality. The quantitative data
- 13:45–14:00 EGU2012-14469
A.A. Skarlatoudis, C.B. Papazachos, B.N. Margaris, Ch. Ventouzi, I. Kalogeras, and D. Vambakaris
 Ground motion prediction equations for intermediate-depth earthquakes in the Southern Aegean Subduction Zone : Identification of significant along-arc/back-arc differences and their impact on seismic hazard
- 14:00–14:15 EGU2012-7713
G. A. Papadopoulos, M. Avlonitis, B. Di Fiore, and G. Minadakis
 The Predictive Value of Foreshocks
- 14:15–14:30 EGU2012-1790
R. Teisseyre
 Fracture Recess: Asymmetric Continuum Approach
- 14:30–14:45 EGU2012-8070
N.V. Sarlis and S.-R.G. Christopoulos
 Natural time analysis of global seismicity: the identification of magnitude correlations.
- 14:45–15:00 EGU2012-4986
P. Senatorski
 Seismic state equation and scaling relations for earthquake parameters
- Chairperson: n.n.
- 15:30–16:30 EGU2012-14456
T.J. Sullivan
 Towards Improved Considerations of Risk in Seismic Design (Plinius Medal Lecture)
- 16:30–17:00 EGU2012-7882
 N.V. Sarlis, E.S. Skordas, M.S. Lazaridou, and **P.A. Varotsos**
 Natural time analysis: An overview.
- 17:00–17:15 EGU2012-12421
F. Vallianatos
 From rock fracture to plate tectonics. Evidence of non extensive statistical mechanics in Earth physics, A review

NH4.2/NP7.4/SM5.3/TS8.7 – Fracture and earthquake physics: modeling precursory phenomena and seismic hazard also with nonlinear seismology (including Plinius Medal Lecture) (co-organized) – Posters

Convener: F. Vallianatos | Co-Conveners: P. Sammonds, V. Lapenna, G. Marmureanu, R. Madariaga, GF Panza

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: P. Sammonds, R. Madariaga, J. Panza

- XY250 EGU2012-678
N. Jorjishvili, T. Yokoi, and Z. Javakhishvili
 Uncertainties related to seismic hazard assessment
- XY251 EGU2012-3586
S. F. Balan, B.F. Apostol, and C.O. Cioflan
 Soil Deposit Response due to Crustal Seismogenic Zone of Fagaras-Campulung, Romania
- XY252 EGU2012-4265
A. Bala, A. Aldea, S.F. Balan, and C. Arion
 Geological and Geophysical Models Underneath Bucharest City Responsible for the Variability of Seismic Site Effects
- XY253 EGU2012-4600
D. Solakov, S. Simeonova, L. Christoskov, P. Trifonova, and I. Aleksandrova
 Probabilistic Seismic Hazard Assesment for Bulgaria as a Basis for a new National Building Code
- XY254 EGU2012-2757
G. Choularas, G. Drakatos, K. Makropoulos, and N.S. Melis
 Recent seismicity detection increase at Santorini' s volcanic islands
- XY255 EGU2012-5150
J. Trømborg, D. S. Amundsen, K. Thøgersen, J. Scheibert, and A. Malthé-Sørenssen
 Precursor evolution in recent dry friction experiments explained by 2D simulation
- XY256 EGU2012-9934
Ch. G. Gkarlaouni, V. G. Karakostas, E. E. Papadimitriou, and A. A. Kiliass
 Seismotectonic properties with implications on faulting identification revealed from recent seismicity in Greece

- XY257 EGU2012-11656
F. Vallianatos, V. Karakostas, and E. Papadimitriou
 Non extensive statistical physics properties of the 2003 (Mw6.2), Lefkada, Ionian island Greece, aftershock sequence
- XY258 EGU2012-11799
F. Vallianatos, G. Michas, G. Papadakis, and P. Sammonds
 Pore Pressure Diffusion as a possible mechanism for the Ag. Ioanis 2001 earthquake swarm activity (Gulf of Corinth, Central Greece).
- XY259 EGU2012-11835
F. Vallianatos, G. Papadakis, G. Michas, and P. Sammonds
 A non extensive statistical physics analysis of the Hellenic subduction zone seismicity
- XY260 EGU2012-13460
A. Cartwright-Taylor, F. Vallianatos, and P. Sammonds
 Non-extensive statistical physics properties of acoustic and pressure-stimulated current emissions measured concurrently during triaxial deformation experiments on marble and limestone samples
- XY261 EGU2012-11726
F. Vallianatos and D. Triantis
 Is Pressure Stimulated Current relaxation in amphibolite a case of non-extensivity ?
- XY262 EGU2012-257
O.A. Hachay, O.Y. Khachay, V.K. Klimko, and O.V. Shipeev
 Investigation of Non-Linear Dynamics of the Rock Massive, Using Seismological Catalogue data and Induction Electromagnetic Monitoring Data in a Rock Burst Mine.
- XY263 EGU2012-11760
R. Ditommaso and M. Mucciarelli
 Non-linearity is not only softening: examples from L'Aquila (2009) and Christchurch (2011) earthquakes
- XY264 EGU2012-8194
I. Stavrakas, G. Hloupis, D. Triantis, and F. Vallianatos
 Concurrent recordings of Electrical Current Emissions and Acoustic Emissions detected from marble specimens subjected to mechanical stress up to fracture
- XY265 EGU2012-1057
Closson, Abou Karaki, Pasquali, Holecz, Riccardi, Milisavljevic, and Bouaraba
 Earthquakes' local site effects in Christchurch revealed by Cosmo-Skymed and Envisat radar images

EMRP2.6/GMPV6.10/NH4.1/SM5.5/TS2.9 – Thermo-mechanical coupling and physical properties: implications to natural hazards (co-organized) – Orals

Convener: S. Vinciguerra | Co-Conveners: G. Di Toro, D. Faulkner, M. J. Heap, O. Lengliné

Room: 42

Chairperson: Vinciguerra

- 13:30–13:45 EGU2012-4392
R. Stefansson and M. Bonafede
 From a physical approach to earthquake prediction, towards long and short term warnings ahead of large earthquakes
- 13:45–14:00 EGU2012-314
B. Grzemba, V.L. Popov, J. Starcevic, and M. Popov
 Earthquake Dynamics in Laboratory Model and Simulation - Accelerated Creep as Precursor of Instabilities
- 14:00–14:15 EGU2012-582
A. Kushnir, L. Kennedy, S. Misra, and P. Benson
 Carbonates in thrust faults: High temperature investigations into deformation processes in calcite-dolomite systems
- 14:15–14:30 EGU2012-4495
A. Schubnel, N. Hilairet, F. Brunet, J. Gasc, P. Cordier, Y. Wang, and H.W. Green
 Seismicity triggered by the olivine-spinel transition: new insights from combined XRD and acoustic emission monitoring during deformation experiments in Mg₂GeO₄
- 14:30–14:45 EGU2012-5228
N. Brantut and J. Sulem
 Instabilities in strain-rate hardening, chemically-weakening rocks: revisiting the mechanism of "dehydration-embrittlement"
- 14:45–15:00 EGU2012-160
C. Scholz and J. Campos
 The Seismic Coupling of Subduction Zones Revisited

Chairperson: Heap

- 15:30–15:45 EGU2012-4176
F. Renard and M. Kobchenko
 4D imaging of fluid escape in low permeability shales during heating
- 15:45–16:00 EGU2012-13208
B. Carpenter, H. Kitajima, and D. Saffer
 Hydraulic and Acoustic Properties of Alpine Fault DFDP1a Core
- 16:00–16:15 EGU2012-3227
A. Ougier-Simonin and W. Zhu
 The role of fluid pressure on slip instability
- 16:15–16:30 EGU2012-7348
S. Smith, G. Di Toro, E. Spagnuolo, S. Nielsen, M. Violay, R. Spiess, and A. Billi
 Co-seismic frictional properties and microstructures of carbonate fault rocks in nature and experiment
- 16:30–16:45 EGU2012-12993
N. De Paola, I. Faoro, and R.E. Holdsworth
 The evolution of the frictional properties of faults during the seismic cycle
- 16:45–17:00 EGU2012-6985
O. Ben-David and J. Fineberg
 Slip stick and the rapid dynamics of static friction

EMRP2.6/GMPV6.10/NH4.1/SM5.5/TS2.9 – Thermo-mechanical coupling and physical properties: implications to natural hazards (co-organized) – Posters

Convener: S. Vinciguerra | Co-Conveners: G. Di Toro, D. Faulkner, M. J. Heap, O. Lengliné

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Lengliné

- A25 EGU2012-114
M.Sc. Fidiriková and D.Sc. Kubišár
 Moisture impact on building rocks - the laboratory and in situ investigations
- A26 EGU2012-299
E. Ferre, J.W. Geissman, and M.S. Zechmeister
 Coseismic paleomagnetic signal in fault pseudotachylytes?
- A27 EGU2012-514
M. Ikari, A. Niemeijer, C. Spiers, and A. Kopf
 Unstable slip behavior in sediments from the Costa Rica convergent margin
- A28 EGU2012-900
A. Hassanzadegan, G. Bloecher, H. Milsch, and G. Zimmermann
 The effect of temperature on mechanical and hydraulic properties of Flechtinger sandstone
- A29 EGU2012-1850
 Y. Lavallée, **M. J. Heap**, A. Laumann, K.-U. Hess, P. G. Meredith, and D. B. Dingwell
 How tough is tuff in the event of fire?
- A30 EGU2012-2831
I.G. Main, A.F. Bell, P.G. Meredith, N. Brantut, and M. Heap
 Scaling of coupled dilatancy-diffusion processes in space and time
- A31 EGU2012-2900
 E.H. Saenger, **M. Frehner**, C. Madonna, N. Tisato, M. Kuteynikova, N. Riahi, P. Sala, and B. Quintal
 Combining laboratory and computational rock physics
- A32 EGU2012-3018
P. Tizzani, R. Castaldo, S. Pepe, and G. Solaro
 3D Imaging of Brittle/Ductile transition of the crust beneath the resurgent calderas
- A33 EGU2012-3673
A. V. Smaglichenko and L. A. Sim
 Seismic analyze of satellite image and tomographic model: an example of the Nagano fault zone
- A34 EGU2012-4397
 A. Bizzarri, **P. Crupi**, S. de Lorenzo, and M. Loddo
 Thermal effects on the time occurrence of earthquake failures: a deterministic approach.
- A35 EGU2012-4457
B. Derode, F. Cappa, and Y. Guglielmi
 Different seismic signatures of fractures slip and their correlations with fluid pressures in in-situ rupture experiments
- A36 EGU2012-4847
N. Lesparre, A. Adler, F. Nicollin, D. Gibert, and C. Nussbaum
 Monitoring the Excavation Damaged Zone in Opalinus clay by three dimensional reconstruction of the electrical resistivity in the Mont Terri gallery G-04

- A37 EGU2012-5304
J. Chen, X. Yang, and C. J. Spiers
Coseismic thermal-mechanical-chemical processes on the Wenchuan Earthquake fault: constraints from experiments and numerical modeling
- A38 EGU2012-5571
S. Loaiza, J. Fortin, M. Adelinet, Y. Guéguen, and S. Violette
Hydrodynamic properties of the basal aquifer of Santa Cruz Island using seismic refraction, Galapagos - Ecuador
- A39 EGU2012-5934
C. Boulton, M. Villeneuve, and C. Goodin
Acoustic emissions generated during uniaxial compressive strength tests on Lyttelton volcano rocks, Christchurch, New Zealand
- A40 EGU2012-7076
S.A.M. den Hartog, A.R. Niemeijer, and C.J. Spiers
Frictional properties of megathrust fault gouges under true in-situ subduction zone conditions
- A41 EGU2012-7150
O. Lengliné, J. Schmittbuhl, J. Elkhoury, J.-P. Ampuero, K. J. Maloy, A. Cochard, and R. Toussaint
Influence of temperature in interfacial crack propagation in a heterogeneous medium
- A42 EGU2012-8830
M. Moreira and N Wallenstein
Evolution of elastic properties and acoustic emission, during uniaxial loading of rocks, from the Fogo Volcano in the island of Sao Miguel, Azores; Preliminary results.
- A43 EGU2012-8882
R.J. Wall, C.R.J. Kilburn, and P.G. Meredith
Seismic Precursors to Eruptions at Volcanoes in Extensional Stress Fields
- A44 EGU2012-9327
M. Bourcier, A. Dimanov, E. Héripré, M. Bornert, and J. Raphanel
Effects of microstructure and temperature on the plastic deformation mechanisms of synthetic halite : a micromechanical approach
- A45 EGU2012-10337
J. Scheibert, C. Guerra, D. Bonamy, and D. Dalmas
Understanding fast macroscale fracture from microcrack post mortem patterns
- A46 EGU2012-11127
M. Krumbholz, S. Burchardt, D. C. Tanner, and H. Koyi
On the scale-invariance of fractures and fracture patterns in the Transscandinavian Igneous Belt, Southeast Sweden
- A47 EGU2012-12527
J.M. Azañón, E. Puertas, **C. Ureña**, R. Gallego, and F. Romero-Gómez
Collapse in a rock massif induced by lateral confinement loss: the case of Montegolf (Málaga, Spain)
- A48 EGU2012-13592
M. J. Werner and A. M. Rubin
Numerical Simulations of Mechanical Erosion from below by Creep on Rate-State Faults
- A49 EGU2012-6336
M.-L. Bernard and M. Zamora
Seismic properties of volcanic rocks from Montagne Pelée (Martinique, Lesser Antilles) and their relations to transport properties

EMRP2.2/GMPV6.21/SM5.6/TS3.3 – A tribute to Luigi Burlini (co-organized) – Orals

Convener: A. Schubnel | Co-Conveners: S. Vinciguerra

Room: 42

Chairperson: Schubnel, Vinciguerra

- 08:30–08:45 EGU2012-8697
G. di Toro and **P. Meredith**
The physics of non-volcanic tremor: insights from laboratory-scale earthquakes
- 08:45–09:00 EGU2012-2696
A. Barnhoorn
Microstructural changes, steady-state deformation and strain localisation during large strain deformation of rocks
- 09:00–09:15 EGU2012-12538
R.H.C. Bruijn, C. Delle Piane, and W.S. de Raadt
Rheology of deformed Carrara marble: Insights from torsion experiments

- 09:15–09:30 EGU2012-11483
R. Pini and M. Mazzotti
CO₂ sequestration in deep coal seams: experimental characterization of the fundamental underlying mechanisms
- 09:30–09:45 EGU2012-7314
N. Tisato, C. Madonna, and E.H. Saenger
Measurements and mechanisms investigation of seismic wave attenuation for frequencies between 1 and 100 Hz
- 09:45–10:00 EGU2012-2920
Y. Gueguen
Attenuation and Dispersion in Earth's Materials

Wednesday, 25 April

SM1.3/GI1.7 – Improving seismic networks performances: from site selection to data integration (co-organized) –

Orals

Convener: D. Pesaresi | Co-Conveners: F. Vernon

Room: 26

Chairperson: D. Pesaresi

08:30–08:45 EGU2012-10770

F. Vernon, J. Tytell, M.A.H. Hedlin, K. Walker, R. Busby, and R. Woodward
Integration of Infrasound, Atmospheric Pressure, and Seismic Observations with the NSF EarthScope
USArray Transportable Array

08:45–09:00 EGU2012-9257

N.S. Melis, C.P. Evangelidis, K. Boukouras, I.S. Kalogeras, and K. Makropoulos
The Hellenic Seismic Network (HL): Recent Upgrades and Developments

09:00–09:15 EGU2012-3615

S. Lebedev, C. Horan, P. W. Readman, A.J. Schaeffer, M.R. Agius, L. Collins, F. Hauser, B. M. O'Reilly,
and T. Blake
Ireland Array: A new broadband seismic network targets the structure, evolution and seismicity of Ireland
and surroundings

09:15–09:30 EGU2012-7107

K. Plenkers, T. Kraft, F. Bethmann, S. Husen, and M. Schnellmann
Optimizing Site Selection in Urban Areas in Northern Switzerland

09:30–09:45 EGU2012-3881

H. Rademacher, **D. Hart**, and C. Guralp
A Technique to Determine the Self-Noise of Seismic Sensors for Performance Screening

09:45–10:00 EGU2012-11345

A. Brisbourne, **J. Clinton**, G. Hetenyi, C. Pequegnat, M. Wilde-Piorko, A. Villasenor, P. Comelli, and the
AlpArray Working Group
AlpArray - technical strategies for large-scale European co-operation in broadband seismology

SM1.3/GI1.7 – Improving seismic networks performances: from site selection to data integration (co-organized) –

Posters

Convener: D. Pesaresi | Co-Conveners: F. Vernon

Hall XL | Display Time 08:00–19:30

Author in Attendance: 10:30–12:00

Chairperson: F. Vernon

XL294 EGU2012-1077

S. I. Kaka

Seismic noise study for a new seismic station at King Fahd University of Petroleum and Minerals in Saudi
Arabia

XL295 EGU2012-2272

A.-A Mohamed

Role of the Egyptian National Seismological Network to mitigate the seismic hazard in Egypt

XL296 EGU2012-2614

M.-T. Apoloner and G. Bokelmann

Improving identification of regional depth phases in sparse networks

XL297 EGU2012-3072

Dr. L. Zimakov and P. Passmore

HIGH-RESOLUTION, LOW POWER, INTERGRATED AFTERSHOCK and MICROZONATION SYSTEM

XL298 EGU2012-3376

S. Hirahara, N. Uchida, and J. Nakajima

Autonomous telemetry system by using mobile networks for a long-term seismic observation

XL299 EGU2012-3924

Y. Jia, N. Horn, and W. Lenhardt

Site effects in seismic data acquisition

XL300 EGU2012-5052

A. Ala Amjadi, Z. H. Shomali, and M. R. Hatami

Real-time seismic data processing using seiscomp3 in Central Alborz region/Iran

XL301 EGU2012-6598

J. Bajc, Ž. Zaplotnik, M. Živčič, and M. ?arman

Local magnitude scale in Slovenia

- XL302 EGU2012-7310
P. L. Bragato, **D. Pesaresi**, A. Saraò, P. Di Bartolomeo, and G. Duri
OGS improvements in the year 2011 in running the Northeastern Italy Seismic Network
- XL303 EGU2012-7717
M. Cantarero, S. Di Prima, **M. Mattia**, D. Patanè, and M. Rossi
Geophysical monitoring of a complex geologic framework: the multi-disciplinary sensor networks in Sicily (Italy)
- XL304 EGU2012-7830
C. Baillard, W. Crawford, V. Ballu, and C. Hibert
Kurtosis based automated P-S phase picking procedure for hypocenter determination: Vanuatu region case study
- XL305 EGU2012-8121
O. Valtonen, M. Uski, A. Korja, T. Tiira, and J. Kortström
Simulations of a Microearthquake Network
- XL306 EGU2012-8654
A. Lois, E. Sokos, P. Paraskevopoulos, and G-A. Tselentis
S-onset time automatic picking based on polarization analysis and higher order statistics
- XL307 EGU2012-9374
J.-J. Lévêque, M. Bès de Berc, A. Maggi, and J.-Y. Thoré
Broad-band seismometers in the extreme cold: what we learn from the observatory station CCD (Concordia, Antarctica)
- XL308 EGU2012-9468
D. Spallarossa, L. Tiberi, and G. Costa
Comparison of manual and automatic onset Time picking for local earthquake in North Eastern Italy.
- XL309 EGU2012-9523
I.S. Kalogeras, C.P. Evangelidis, N.S. Melis, and K. Boukouras
The Athens Acropolis Strong Motion Array
- XL310 EGU2012-9764
R. Steiner, **G. Costa**, W. Lenhardt, N. Horn, and P. Suhadolc
Rigorous noise test and calibration check of strong-motion instrumentation at the Conrad Observatory in Austria.
- XL311 EGU2012-10922
T. Demachi, S. Miura, Y. Ohta, K. Tachibana, S. Ueki, T. Sato, M. Ohzono, and N. Umino
Continuous GPS observations in Tohoku University and recovery effort after the 2011 off the Pacific coast of Tohoku Earthquake
- XL312 EGU2012-11006
A. Tramelli, G. De Natale, C. Troise, and M. Orazi
A new integrated approach to seismic network optimization
- XL313 EGU2012-11620
M. Langlais, B. Vial, and O. Coutant
A noise comparison between two different types of sensor installation
- XL314 EGU2012-12370
J. Reyes, R. Newman, F. Vernon, and G. van den Hazel
Moment Tensor code for the Antelope Environmental Monitoring System
- XL315 EGU2012-12521
F. Vallianatos, G. Hloupis, and I. Papadopoulos
Evaluation results after seven years of operation for the permanent Hellenic Seismological Network of Crete (HSNC).

SM2.4/G3.7/NH4.8/TS8.6 – Investigating earthquake physics through source imaging and scaling studies (co-organized) – Orals

Convener: G. Kwiatek | Co-Conveners: H. Sudhaus, R. M. Harrington, P.M. Mai, A. Piatanesi

Room: 26

Chairperson: n.n.

- 15:30–15:45 EGU2012-3790
A.M.G. Ferreira, J. Weston, and G.J. Funning
Joint earthquake source inversions of InSAR and seismic data using 3D Earth models
- 15:45–16:00 EGU2012-12258
J. R. Elliott, Z. Li, E. K. Nissen, J. A. Jackson, S. Lamb, B. Parsons, and R. A. Sloan
Recent continental earthquakes constrained by InSAR: determining source complexity
- 16:00–16:15 EGU2012-4604
G.C. Feng, S. Jónsson, X.L. Ding, and Z. Li
The coseismic deformation and fault slip distribution of the Mw9.0 Tohoku-Oki earthquake estimated from GPS and InSAR

- 16:15–16:30 EGU2012-8546
V. Dionicio, C. Satriano, E. Kiraly, J.-P. Vilotte, and P. Bernard
 Broadband characterization of large subduction earthquakes through the combination of coherent rupture imaging and kinematic modeling
- 16:30–16:45 EGU2012-9989
E. Tinti, L. Scognamiglio, A. Cirella, M. Cocco, and A. Piatanesi
 Complex earthquake directivity during the 2009 L'Aquila mainshock
- 16:45–17:00 EGU2012-8578
P.M. Mai, D. Schorlemmer, and M. Page
 The Source Inversion Validation (SIV) Initiative: A Collaborative Study on Uncertainty Quantification in Earthquake Source Inversions

SM2.4/G3.7/NH4.8/TS8.6 – Investigating earthquake physics through source imaging and scaling studies

(co-organized) – Posters

Convener: G. Kwiitek | Co-Conveners: H. Sudhaus, R. M. Harrington, P.M. Mai, A. Piatanesi

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XL317 EGU2012-2731
R. M. Harrington and G. Kwiitek
 Volcanic seismic earthquakes at Mount St. Helens exhibit a constant seismically radiated energy per unit size.
- XL318 EGU2012-7183
 E Popescu, M Radulian, **M Craiu**, A Craiu, I. A Moldovan, and A. O Placinta
 Source characteristics of the crustal moderate earthquakes occurred between 2007 and 2011, in the South Carpathians and Romanian Plain
- XL319 EGU2012-7118
 E. Popescu, A Craiu, **M Craiu**, M Popa, and M Radulian
 Earthquake sequence in western getic depression (Romania), December 2011 - January 2012: source characteristics and seismotectonics
- XL320 EGU2012-12042
G. Kwiitek and Y. Ben-Zion
 Assessment of radiated P and S wave energy from shear and tensile picoseismicity in the Mponeng deep gold mine, South Africa
- XL321 EGU2012-788
A. Barth
 Spatial b-value variations in the Upper Rhine Graben
- XL322 EGU2012-4020
Y.-T. Ko, B.-Y. Kuo, and S.-H. Hung
 The source scaling and depth-dependent stress drops for subduction zone events
- XL323 EGU2012-8479
M.D. Martinez, M. Monterrubio, and X. Lana
 Time behavior of aftershock series simulated by using a modified version of the Dynamic Fiber Bundle (FBM) model
- XL324 EGU2012-8919
F. N. Bekler, N.M. Ozel, and G.B. Tanircan
 Kinematic Rupture Process Of Karakocan-Elazig Earthquake, Eastern Turkey
- XL325 EGU2012-7539
A. Demirci, T. Bekler, and S. Ozden
 The 19 May 2011 Simav Earthquake (Mw=5.8) and its aftershocks, Western Turkey: Source mechanisms and spectral source parameters
- XL326 EGU2012-11208
M.-A. Schröter, C. Weimann, H. Sturm, and M. Holschneider
 Bridging the scales: Direct SEM imaging of micrometer vibrations for the analysis of stick-slip behavior at microscale
- XL327 EGU2012-382
O. Castro-Artola and A. Iglesias Mendoza
 Simplified Scheme for the Kinematic Inversion of the Rupture Process: Application to Mexican Earthquakes.
- XL328 EGU2012-4256
F. Gallovi?, J. Zahradník, and K. Vachek
 Complexity of the Mw6.3, 2009 L'Aquila (Central Italy) earthquake rupture
- XL329 EGU2012-5459
C.-F. Chen, J.B.H. Shyu, and Y.-M. Wu
 Seismotectonic characteristics of the northernmost part of the Longitudinal Valley suture, eastern Taiwan

- XL330 EGU2012-7153
A. Gallo, G. Costa, and P. Suhadolc
Strong motion inversion for slip distribution on a finite fault using strong motion data: L'Aquila 2009 earthquake
- XL331 EGU2012-9116
S. Ruiz and R. Madariaga
Kinematic inversion of Maule 2010, Chile and Tohoku 2011, Japan earthquakes using cGPS and Strong Motion data
- XL332 EGU2012-9386
J.A. López-Comino, F. Mancilla, J. Morales, and **D. Stich**
Source parameters of the 2011, Mw 5.2 Lorca earthquake (Spain)
- XL333 EGU2012-9719
M. Hensch, Th. Árnadóttir, B. Lund, and B. Brandsdóttir
Spatial stress variations in the aftershock sequence following the 2008 M6 earthquake doublet in the South Iceland Seismic Zone
- XL334 EGU2012-10383
H. Razafindrakoto and M. Mai
Uncertainty Quantification of Kinematic Source Parameters using a Bayesian Approach
- XL335 EGU2012-11610
C.P. Evangelidis and H. Kao
Rupture plane identification of intermediate depth earthquakes in the Hellenic arc by back projection of local seismic waveforms
- XL336 EGU2012-12071
C. Kyriakopoulos, T. Masterlark, M. Chini, C. Bignami, and S. Stramondo
Post-seismic deformation of the 2011 Tohoku earthquake, Japan
- XL337 EGU2012-9945
A. Cirella, A. Piatanesi, E. Tinti, M. Chini, and M. Cocco
Rupture process of the 2009 L'Aquila, central Italy, earthquake, from the separate and joint inversion of Strong Motion, GPS and DInSAR data.
- XL338 EGU2012-13355
H. Sudhaus and S. Heimann
Data Democracy in Simultaneous Monte Carlo Optimizations of Geodetic and Seismological Data

TS8.1/SM2.6 – Active tectonics along continental faults (co-organized) – Orals

Convener: M. Ferry | Co-Conveners: K. Vanneste, I. T. Kukkonen, MVS Ask, Dr. Olesen

Room: 11

Chairperson: K. Vanneste

- 08:30–08:45 EGU2012-4208
S. Toda, H. Tsutsumi, N. Sugito, and H. Yasuda
Reactivated inland normal faults due to the 2011 Mw=9.0 Tohoku, Japan, earthquake
- 08:45–09:00 EGU2012-7332
T. Ishiyama, N. Sugito, T. Echigo, H. Sato, and T. Suzuki
Rare normal faulting earthquake induced by subduction megaquake: example from 2011 Tohoku-oki earthquake
- 09:00–09:15 EGU2012-9184
S. Beaupretre, I. Manighetti, S. Garambois, J. Malavieille, G. Sénéchal, and M. Chatton
Finding the buried record of past earthquakes with GPR-based paleoseismology
- 09:15–09:30 EGU2012-10839
R. Vassallo, V. Vignon, J-L. Mugnier, R. Jayangondaperumal, P. Srivastava, M. A. Malik, M. Mouchéné, and F. Jouanne
A future big one in the North-West Himalayan syntax ?
- 09:30–09:45 EGU2012-8588
H. Li, **J. van der Woerd**, Z. Sun, J. Si, P. Tapponnier, J. Pan, D. Liu, and M.-L. Chevalier
Co-seismic and cumulative offsets of the recent earthquakes along the Karakax left-lateral strike-slip fault in western Tibet
- 09:45–10:00 EGU2012-5739
M. Ferry, R. D. Gold, and M. Meghraoui
Slip history of the Dead Sea fault system since 100 ka

COFFEE BREAK

Chairperson: M. Ferry and I. T. Kukkonen

- 10:30–10:45 EGU2012-6919
I. T. Kukkonen, M.S.V. Ask, and O. Olesen
Project DAFNE - Drilling Active Faults in Northern Europe
- 10:45–11:00 EGU2012-13080
O. Olesen, M. Brönnner, J. Dehls, C. Lindholm, H. Bungum, H.P. Kierulf, and L. Bockmann
Neotectonics and strandflat formation in Nordland, northern Norway
- 11:00–11:15 EGU2012-4745
C. Brandes, J. Winsemann, J. Roskosch, J. Meinsen, D. Tanner, M. Frechen, H. Steffen, and P. Wu
Young glacially-induced tectonic activity of the Osning Thrust in Central Europe
- 11:15–11:30 EGU2012-5121
F. Storti, **F. Balsamo**, L. Aldega, S. Corrado, L. Di Paolo, M. Mastalertz, and M. Tallini
Evidence of strong Quaternary earthquakes in the epicentral area of the April 6th 2009 L'Aquila seismic event from sediment paleofluidization and overconsolidation
- 11:30–11:45 EGU2012-9050
P. Boncio, P. Galli, G. Naso, and A. Pizzi
Zoning surface rupture hazard along normal faults: Insight from L'Aquila, 2009 (Mw 6.3, Central Italy) and other global earthquakes
- 11:45–12:00 EGU2012-12392
J. Woessner, L. Danciu, D. Giardini, and the SHARE consortium
Harmonized Probabilistic Seismic Hazard Assessment in Europe: Earthquake Geology Applied

TS8.1/SM2.6 – Active tectonics along continental faults (co-organized) – Posters

Convener: M. Ferry | Co-Conveners: K. Vanneste, I. T. Kukkonen, MVS Ask, Dr. Olesen

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: M. Ask and O. Olesen

- A479 EGU2012-9163
G. Valensise, S. Barba, and R. Basili
Introducing individual seismogenic sources and geology-derived strain rates into Europe's new seismic hazard model
- A480 EGU2012-8021
C.H. Grützner, **K. Reicherter**, and J. Winandy
A 13 km Long Paleoseismological Trench in Western Germany
- A481 EGU2012-6170
J.J. Martínez-Díaz, M. Béjar-Pizarro, **J.A. Álvarez-Gómez**, F.L. Mancilla, D. Stich, G. Herrera, and J. Morales
Seismic and tectonic implications of an intersegment rupture. The damaging May 11th 2011 MW 5.2 Lorca, Spain, earthquake.
- A482 EGU2012-12283
S. Silva, P. Terrinha, L. Matias, W. Geissler, N. Zitellini, M. Romsdorf, and NEAREST Working Group
Seismotectonics of the Gulf of Cadiz based on the NEAREST OBS experiment: mechanisms and faults
- A483 EGU2012-5775
M. Ferry, J. Carvalho, J. Borges, and D. Fitzenz
Searching for Earthquake Sources in the Lower Tagus Valley (Portugal): First Results
- A484 EGU2012-7956
D. Fang and W. Xue-Ze
The Post-seismic Slip of the 1973 M7.6 earthquake on the Luhuo Segment of the Xianshuihe Fault Zone, Sichuan, China
- A485 EGU2012-5508
L. Xiaofan
The analysis of observed coseismic deformation and dynamic triggering of Ms 8.0 Wenchuan Earthquake
- A486 EGU2012-7677
W. Xue-ze and D. Fang
Correlation of major earthquake sequences on the eastern and northern boundaries of the Bayanhar block, China, and the tectonic dynamics of the block
- A487 EGU2012-3291
C.-P. Chang, X.-W. Xu, R.-M. Yuan, K. Li, X.-Z. Sun, and W.-S. Chen
Tectonic evolution of the frontal Longmen Shan thrust belt
- A488 EGU2012-11075
J.-F. Ritz, C. Larroque, **R. Vassallo**, A. Arzhannikova, S. Arzhannikov, and M. Jolivet
Holocene kinematics and slip rate of the Sayan fault (Southern Siberia, Russia)
- A489 EGU2012-8568
M. Etchebes, P. Tapponnier, Y. Klinger, J. Van Der Woerd, X. Xu, S. Xinzhe, T. Xibin, M. Rizza, and T. Lok Hang
Slow late quaternary slip rate and long earthquake recurrence time along the Fuyun fault, Xinjiang, China

- A490 EGU2012-5803
M. Ferry, A. Schlupp, U. Munkhuu, M. Munsch, and S. Fleury
Tectonic Morphology of the Hustai Fault (Northern Mongolia)
- A491 EGU2012-8027
J.-R. Dujardin, M. Bano, M. Gillard, A. Schlupp, M. Ferry, U. Munkhuu, and T.-A. Nyambayar
Characterization of the Emeelt active fault by 2D and 3D GPR survey for seismic hazard assessment of Ulaanbaatar, capital of Mongolia.
- A492 EGU2012-5596
S. Fleury, M. Munsch, A. Schlupp, M. Ferry, and U. Munkhuu
High Resolution Magnetic surveys across the Emeelt and Hustai faults near Ulaanbaatar, Mongolia
- A493 EGU2012-1860
J. Alonso-Henar, W. Montero, J.J. Martínez-Díaz, J.A. Álvarez-Gómez, and J.M. Insua-Arévalo
Paleoseismic evidence of the most destructive earthquake in Costa Rica history: 4th May 1910 Cartago earthquake.
- A494 EGU2012-2377
S.-F. Xue, F. Sun, and B. Zhou
Relationship between the reservoir-induced seismic activity and the role of reservoir fluid - A case study of Zipingpu Reservoir, China
- A495 EGU2012-266
N. Deseta, **L. Ashwal**, and T.B. Andersen
Intermediate-depth earthquake generation: what hydrous minerals can tell us
- A496 EGU2012-684
F.L. Bonali, A. Tibaldi, C. Corazzato, F. Lanza, A. Cavallo, and A. Nardin
Elastic stress interaction between faulting and volcanism in the Olacapato-San Antonio de Los Cobres area (NW Argentina)
- A497 EGU2012-9545
M. Chatton, J. Malavieille, S. Dominguez, I. Manighetti, C. Romano, S. Beauprêtre, S. Garembois, and C. Larroque
Interaction between slip events, erosion and sedimentation along an active strike-slip fault: Insights from analog models
- A498 EGU2012-9370
M. Bavec, T. Ambrožič, J. Atanackov, I. Ceci, B. Celarc, A. Gosar, P. Jamšek, J. Jež, D. Kogoj, B. Koler, M. Kuhar, B. Milani, M. Novak, P. Pavlov, Prešeren, S. Savšek, O. Sterle, B. Stopar, M. Vrabec, M. Zajc, and M. Živčič
Some seismotectonic characteristics of the Ljubljana Basin, Slovenia
- A499 EGU2012-10731
H. Mejri, R. Ghribi, S. Bouaziz, and S. Balescu
Post Tyrrhénian deformation analysis in the Sahel coast (Eastern Tunisia): seismotectonic events implication
- A500 EGU2012-13091
D. Kalafat, R. Polat, S. Altuncu Poyraz, K. Kekovali, and M.F. Akkoyunlu
19 May 2011 Simav Earthquake Sequence : Western Turkey
- A501 EGU2012-12048
L. Drab, A. Hubert-Ferrari, S. Schmidt, and P. Martinez
The earthquake sedimentary record in marine sediment from cores in the western part of the Marmara Sea, Turkey
- A502 EGU2012-13131
S. Uskuplu and O. Tuysuz
Earthquake Scenarios and Comparison with Historical Earthquakes, Hatay Region, SE Turkey
- A503 EGU2012-12591
A. Bäckström, N. Rantakokko, and M.V.S. Ask
Fault-slip analyses of brittle structures in the Corruvage valley along the Pärvie fault in North Sweden
- A504 EGU2012-11597
E. Kozlovskaya, O. Usoltseva, N. Konstantinovskaya and the POLENET/LAPNET Working Group Team
Local seismicity in the area of Tornio River (northern Fennoscandia) revealed by analysis of local events registered by the POLENET/LAPNET array
- A505 EGU2012-9076
B. Lund, E. Lindblom, A. Tryggvason, and R. Bödvarsson
What do earthquakes on the endglacial faults tell us about the current stress field?
- A506 EGU2012-8446
I. Smedberg, M. Uski, T. Tiira, K. Komminaho, and A. Korja
Intraplate earthquake swarm in Kouvola, south-eastern Finland
- A507 EGU2012-8096
M. Uski, **T. Tiira**, M. Grad, and J. Yliniemi
Seismicity and depth of faulting in the Archean Kuusamo region based on relocation of earthquakes with new velocity models

- A508 EGU2012-6117
C. Lindholm, D. Lang, O Olesen, and J. Gellein
 A temporary seismic small-sized network around Masi, Finnmark, for monitoring the Stuoragurra micro-seismicity.
- A509 EGU2012-13872
E. Roaldset
 The postglacial Stuoragurra Fault, North Norway - A textural and mineralogical study.

TS8.2/G3.8/NH4.4/SM2.11 – Seismotectonics and crustal deformation in Africa (co-organized) – Orals

Convener: M. Meghraoui | Co-Conveners: R. Durrheim, A. AYELE, V. Midzi

Room: 27

Chairperson: Mustapha Meghraoui and Vunganai Midzi

- 15:30–15:45 EGU2012-14089
T. Wright, A. Ayele, T. Barnie, M. Belachew, E. Calais, L. Field, I. Hamling, J. Hammond, D. Keir and the Afar Rift Consortium Team
 Witnessing the birth of a new ocean? The first 6 years of the Dabbahu rifting episode, and other activity in Afar
- 15:45–16:00 EGU2012-1474
A. Deprez, C. Doubre, F. Masson, A. Socquet, P. Ulrich, C. Vigny, and J.C. Ruegg
 Evidence of changes in the velocity field in the Asal-Ghoubbet rift using GPS data: results of repeated GPS campaigns over a 13-year period.
- 16:00–16:15 EGU2012-11567
A. Tokam Kamga, C. T. Tabod, A. A. Nyblade, and S. S. Nguiya
 Imaging the Lithosphere beneath Cameroon and implications to the origin of the Cameroon Volcanic Line
- 16:15–16:30 EGU2012-7588
R.M.S. Fernandes, M. Meghraoui, J.M. Miranda, M.S. Bos, A. Radwan, A. Tahayt, and M. Muhammad
 Constraints to the strain field of Africa from geodetic solutions: a contribution for the Seismotectonic Map of Africa
- 16:30–16:45 EGU2012-14174
M. Bezzeghoud, C. Adam, E. Buorn, J.F. Borges, and B. Caldeira
 Seismicity along the western part of the Eurasia-Nubian plate boundary
- 16:45–17:00 EGU2012-11779
A. Ayele
 Earthquake and Volcanic Hazard Mitigation and Capacity Building in Sub-Saharan Africa

TS8.2/G3.8/NH4.4/SM2.11 – Seismotectonics and crustal deformation in Africa (co-organized) – Posters

Convener: M. Meghraoui | Co-Conveners: R. Durrheim, A. AYELE, V. Midzi

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Atalay Ayele and Ray Durrheim

- A510 EGU2012-474
E. Saria, E. Calais, Z. Altamimi, P. Willis, R. Fernandes, S. Stamps, and H. Farah
 Rigidity of Nubia from combined GPS and DORIS solutions: Implication to Africa Reference Frame (AFREF)
- A511 EGU2012-1551
M. Lindenfeld, G. Rumpker, I. Wölbern, A.G. Batte, and A. Schumann
 Complex seismicity patterns in the Rwenzori region: insights to rifting processes at the Albertine Rift.
- A512 EGU2012-5849
D. Delvaux, F. Kervyn, A.S. Macheyeki, and E.B. Temu
 Geodynamic significance of the TRM segment in the East African Rift: active tectonics and paleostress in western Tanzania
- A513 EGU2012-5931
J.-L. Mulumba and D. Delvaux
 Pre-instrumental seismicity in Central Africa using felt seisms recorded mainly at the meteorological stations of DRC, Rwanda and Burundi during the colonial period
- A514 EGU2012-10491
M. Singh
 Seismotectonic Analysis for the KZN region of South Africa
- A515 EGU2012-14093
V Midzi
 Status of Seismotectonic and seismic hazard studies in South Africa

- A516 EGU2012-14203
D. Keir, M. Belachew, C. Ebinger, M. Kendall, J. Hammond, G. Stuart, A. Ayele, and J. Rowland
Mapping the evolving strain field during continental breakup from crustal anisotropy in the Afar Depression
- A517 EGU2012-1425
A. Deprez, F. Masson, C. Doubre, and P. Ulrich
African plate motions constraining and Euler pole determination using permanent GPS data
- A518 EGU2012-1529
A. Ahmed, **C. Doubre**, S. Leroy, J. Perrot, L. Audin, F. Rolandone, D. Keir, I. Al-Ganad, K. Khanbari, K. Mohamed, J. Vergne, E. Jacques, and A. Nercessian
Seismic constraints on a large dyking event in Western Gulf of Aden
- A519 EGU2012-3334
M. Meghraoui and A. Ayadi
Seismotectonics of North Africa
- A520 EGU2012-3350
R. Ghedhoui, B. Deffontaines, and M.C Rabia
Lateral extrusion of Tunisia : Contribution of Jeffara Fault (southern branch) and Petroleum Implications
- A521 EGU2012-6540
A. Ben-Suleman
reevaluation of seismicity and seismotectonics of Libya
- A522 EGU2012-13155
J. Kacem and M. Hfaiedh
Importance of macroseismic data from moderate local earthquakes for seismic microzoning effects distribution during the 2003 Bardo, Tunisia, earthquake
- A523 EGU2012-14204
S. Maouche, A. Abtout, N. Merabet, T. Aïfa, A. Lamali, B. Bouyahyaoui, S. Boughchiche, and M. Ayache
Tectonic and hydrothermal activities in Debbagh, Guelma Basin, Eastern Algeria

SM3.1/AS4.20 – Research and Development in Nuclear Explosion Monitoring (co-organized) – Orals

Convener: A. Becker | Co-Conveners: B. Kalinowski, L. Ceranna, D. BROWN, Y. Jia

Room: 26

Chairperson: Y. Jia

- 10:30–10:45 EGU2012-1366
S. J. Gibbons
The Applicability of Incoherent Array Processing to IMS Seismic Array Stations
- 10:45–11:00 EGU2012-6763
N. Arora and S. Russell
A model of seismic coda arrivals to suppress spurious events.
- 11:00–11:15 EGU2012-6817
S. Ballard, M. L. Begnaud, C. J. Young, J. R. Hipp, A. V. Encarnacao, E. P. Chael, W. S. Phillips, and L. K. Steck
Improving Event Locations Using a Global 3D P-Velocity Model of the Earth's Crust and Mantle
- 11:15–11:30 EGU2012-6831
T. J. Draelos, **S. Ballard**, C. J. Young, M. Gonzales, and R. Brogan
A Seismic Event Detection and Signal Association Algorithm
- 11:30–11:45 EGU2012-12700
S. myers, N. Simmons, G. Johannesson, and E. Matzel
Improved Seismic Event Location and Prediction of P-wave Travel Times using the LLNL_G3D Global Earth Model
- 11:45–12:00 EGU2012-5518
Y. Gitterman
Effects of charge design features on parameters of acoustic and seismic waves and cratering, for SMR chemical surface explosions

LUNCH BREAK

Chairperson: A. Becker, M. Kalinowski

- 13:30–13:45 EGU2012-12092
J. Lonzaga, R. Waxler, P. Blom, and J. Assink
Comparison of nonlinear infrasound propagation models with observations

- 13:45–14:00 EGU2012-13174
B. Sick and M. Joswig
 Unsupervised clustering of seismic events in an On-Site-Inspection scenario
- 14:00–14:15 EGU2012-9463
G. Wotawa
 Meteorological analysis of the spring-2010 radionuclide measurements in Eastern Asia
- 14:15–14:30 EGU2012-11845
O. Ross, C. Bönemann, L. Ceranna, N. Gestermann, G. Hartmann, and T. Plenefisch
 NPE 2010 results - Independent performance assessment by simulated CTBT violation scenarios
- 14:30–14:45 EGU2012-339
M. Yamauchi, M. Takeda, M. Makino, and T. Owada
 Re-suspension of the radioactive fallout after the Fukushima accident: risk of internal dose during the first week and the first two months
- 14:45–15:00 EGU2012-13602
A. Yatagai, Y. Onda, and A. Watanabe
 Quantitative analysis of precipitation over Fukushima to understand the wet deposition process in March 2011

SM3.1/AS4.20 – Research and Development in Nuclear Explosion Monitoring (co-organized) – Posters

Convener: A. Becker | Co-Conveners: B. Kalinowski, L. Ceranna, D. BROWN, Y. Jia

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: D. Brown, L. Ceranna

- XL339 EGU2012-1573
Y. Ben Horin and D. M. Steinberg
 Scoring IDC SEL1 events for identifying miss-formed events
- XL340 EGU2012-4089
T. Kvaerna, F. Ringdal, and J. Given
 Application of Detection Probabilities in the IDC Global Association Process
- XL341 EGU2012-5977
M. J. Yedlin, Y. Ben Horin, and J. D. Fraser
 Seismological Applications of the Stockwell Transform
- XL342 EGU2012-10846
Y. Cano and Y. Ben-Horin
 Integration of PMCC detector in seismic operational automatic processing chain. Validation on MMAI array.
- XL343 EGU2012-11702
J. H. Lee and J. Coyne
 Time Series Analysis of the Seismic Events Worldwide
- XL344 EGU2012-5540
I. Kitov, D. Bobrov, J. Coyne, and G. Turyomurugyendo
 On comprehensive recovery of an aftershock sequence with cross correlation
- XL345 EGU2012-4242
V. Pinsky, Y. Gitterman, Y. Ben-Horin, and S. Arrowsmith
 Seismo-acoustic analysis for series of ammunition demolition explosions at Sayarim, Israel
- XL346 EGU2012-11204
J. Marty, P. Martysevich, A. Kramer, and G. Haralabus
 Engineering and development projects for the sustainment and enhancement of the IMS infrasound network
- XL347 EGU2012-11860
P. Mialle, P. Bittner, D. Brown, and J. Given
 IDC Infrasound Pipeline development
- XL348 EGU2012-6821
H.A. Kuzma, E. Arehart, J.N. Louie, and J.L. Witzleben
 The ear, the eye, earthquakes and feature selection: listening to automatically generated seismic bulletins for clues as to the differences between true and false events.
- XL349 EGU2012-11993
 M. Liebsch, J. Altmann, and **F. Gorschlüter**
 Investigations of Periodic Disturbances on SAMS Recordings
- XL350 EGU2012-11672
N. Gestermann, C. Bönemann, L. Ceranna, O. Ross, and C. Schlosser
 Scenario details of NPE 2012 - Independent performance assessment by simulated CTBT violation
- XL351 EGU2012-12019
M. Schoeppner, F. Postelt, M. Kalinowski, and W. Plastino
 Categorisation of nuclear explosions from legitimate radionuclide sources with atmospheric transport modelling

- XL352 EGU2012-6034
D. Morton and M. Krysta
Analysis of FLEXPART performance in an operational atmospheric transport modeling environment at CTBTO
- XL353 EGU2012-7270
M. Krysta, J. Coyne, M. Nikkinen, A. Gheddou, and U. Stöhlker
Atmospheric Transport Modelling Activities at CTBTO in the Aftermath of the Fukushima Release
- XL354 EGU2012-6303
V. Simsek, T. Kindap, A. Unal, L. Pozzoli, and M. Karaca
Estimation Of 137Cs Using Atmospheric Dispersion Models After A Nuclear Reactor Accident
- XL355 EGU2012-342
M. Takeda, **M. Yamauchi**, M. Makino, T. Owada, and I. Miyagi
Radioactive contamination processes during 14-21 March after the Fukushima accident: What does atmospheric electric field measurements tell us?
- XL356 EGU2012-11479
A. Becker, L. Ceranna, O. Ross, U. Schneider, A. Meyer-Christoffer, M. Ziese, K. Lehner, and B. Rudolf
Towards a new daily in-situ precipitation data set supporting parameterization of wet-deposition of CTBT relevant radionuclides

SM3.3 – Seismic imaging and tomography: theory and practice – Orals

Convener: I. Koulakov | Co-Conveners: E. Kissling

Room: 27

Chairperson: n.n.

- 08:30–08:45 EGU2012-3976
S. Jang and C. Ko
Imaging steep-dips by prestack reverse time migration
- 08:45–09:00 EGU2012-5551
J. Charléty, G. Nolet, S. Voronin, I. Loris, F.J. Simons, I. Daubechies, and K. Sigloch
Inversion with a sparsity constraint: Application to mantle tomography
- 09:00–09:15 EGU2012-2518
A. Swidinsky and M. Jegen
Joint inversion of controlled-source electromagnetic and full waveform seismic data for gas hydrate assessment
- 09:15–09:30 EGU2012-8767
A. Meléndez, J. Korenaga, V. Sallarès, and C. R. Ranero
tomo3d: a new 3-D joint refraction and reflection travel-time tomography code for active-source seismic data
- 09:30–10:00 EGU2012-13588
R.D. van der Hilst, M.V. de Hoop, S.H. Shim, X. Shang, P. Wang, and Q. Cao
Global Scale Exploration Seismics: Mapping Mantle Discontinuities with Inverse Scattering Methods and Millions of Seismograms

COFFEE BREAK

Chairperson: n.n.

- 10:30–10:45 EGU2012-2015
S. Pilia, N. Rawlinson, and P. Cummins
3D Structure of Flinders Ranges from Local Earthquake Tomography
- 10:45–11:00 EGU2012-4990
B. Braeuer, G. Asch, R. Hofstetter, Ch. Haberland, D. Jaser, R. El-Kelani, and M. Weber
Local earthquake tomography model for the southern Dead Sea area
- 11:00–11:15 EGU2012-2910
C. Chiarabba, P. De Gori, R. Di Stefano, L. Chiaraluce, and L. Valoroso
Time-repeated (pseudo-4D) seismic tomography: The example of the 2009 L'Aquila earthquake
- 11:15–11:30 EGU2012-4734
S. Hada, **J. Nakajima**, N. Uchida, N. Umino, and E. Hayami
Seismic attenuation structure in the mantle wedge of NE Japan: Implications for arc magmatism and fluids
- 11:30–11:45 EGU2012-4845
D. Rivet, M. Campillo, D. Zigone, M. Radiguet, V. Cruz-Atienza, and N. Shapiro
Relation between velocity changes, strain rate and non-volcanic tremors during the 2009-2010 slow slip event in Guerrero, Mexico

11:45–12:00 EGU2012-2583

I. Koulakov, E.I. Gordeev, M. West, A.G. Yeguas, B.-G. Luehr, and A. Jakovlev
Tomography studies of volcanic complexes

LUNCH BREAK

Chairperson: n.n.

13:30–13:45 EGU2012-8251

C. Legendre, **T. Meier**, S. Lebedev, W. Friederich, and L. Viereck-Götte
A shear-wave velocity model of the European upper mantle from automated inversion of seismic shear and surface waveforms

13:45–14:00 EGU2012-10567

J. Verbeke, D.A. May, L. Boschi, F. Deschamps, and **E. Kissling**
Azimuthal anisotropy in the central European lithosphere from seismic ambient noise

14:00–14:15 EGU2012-2517

S.M. Greve and **H. Paulssen**
Anomalous upper mantle structure around the Tyrrhenian Sea imaged from Rayleigh wave tomography

14:15–14:30 EGU2012-5292

T. Mumladze and Y.M. Wu
Crustal P and Pn Wave Velocity Perturbations Beneath Caucasus Region

14:30–14:45 EGU2012-13854

I. Amanatashvili, Sh. Adamia, N. Lursmanashvili, N. Sadradze, V. Meskhia, I. Koulakov, I. Zabelina, and A. Jakovlev
Tectonics, Deep-Seated Structure and Recent Geodynamics of the Caucasus

14:45–15:00 EGU2012-12976

S. Lloyd, S. Van der Lee, M. Assumpcao, M. Feng, and G. S. Franca
Craton Heterogeneity in the South American Lithosphere

SM3.3 – Seismic imaging and tomography: theory and practice – Posters

Convener: I. Koulakov | Co-Conveners: E. Kissling

Hall XL | Display Time 08:00–19:30

Author in Attendance: 15:30–17:00

Chairperson: n.n.

XL357 EGU2012-12701

Nam-Hyung Koo, Wonsik Kim, Snons Cheong, Byoung Yeop Kim, Ho-Young Lee, Changsoo Shin, and Colin A. Zelt
Application of cosine similarity for updating velocity model in seismic inversion

XL358 EGU2012-218

S. Nakhaee and R. Sprik
Interferometric imaging with seismis and seismo-electromagnetic waves

XL359 EGU2012-4403

B. Hejrani, B. H. Jacobsen, and N. Balling
Finite frequency effects in crooked line teleseismic tomography

XL360 EGU2012-9141

A. Köhler, C. Weidle, and V. Maupin
On the effect of topography on short-period ambient noise tomography

XL361 EGU2012-8687

A. Meléndez, V. Sallarès, C. R. Ranero, and J. Kormann
Origin and application of anomalously large-amplitude multiple phases in near-seafloor seismic recordings

XL362 EGU2012-10060

D. Köhn, **D. Wilken**, and W. Rabbel
Application of an elastic 2D tube-waveform tomography to estimate the shear modulus in the vicinity of the FINO3 offshore platform

XL363 EGU2012-13083

K. Liu and A. Levander
3-D Inverse Teleseismic Scattered Wave Imaging using the Kirchhoff Approximation

XL364 EGU2012-12720

N. Simmons, **S. Myers**, G. Johannesson, and E. Matzel
The importance of event locations in global tomography

- XL365 EGU2012-3110
B. Mei, H. Zhou, Y. Xu, Z. Zou, Y. Zhang, A. Bian, and G. Zhang
Seismic tomography of the upper crust beneath the Three Gorges reservoir, China
- XL366 EGU2012-4928
N. A. Moghadasi and M.R Gheitanchi
Determining 1 and 3 D velocity models in the region of Lorestan
- XL367 EGU2012-5579
Y. Ma, A. Brüstle, L. Küperkoch, and W. Friederich
Crustal structure of the Aegean area obtained by traveltimes tomography
- XL368 EGU2012-1470
C. Alexandrakis, M. Calo, F. Bouchaala, and V. Vavrycuk
Natural microseismicity investigated using double-difference tomography: a 3D look at the 2008 swarm in the Novy Kostel area, Czech Republic
- XL369 EGU2012-4129
O. Novotny, E. Sokos, V. Plicka, and J. Jansky
Upper crustal structure of the western Corinth Gulf, Greece, and re-location of the 2010 earthquake sequence
- XL370 EGU2012-7617
Y.-N. Chen, Y. Gung, S.-J. Lee, L.-Y. Chiao, W.-T. Liang, and C.-H. Lin
Shallow Structure of Taiwan using Ambient Noise Tomography with Empirical Topography Correction
- XL371 EGU2012-4316
L.Q. Zhou and **P. Ji**
Ambient noise Rayleigh wave tomography across Taiwan
- Hall XL | Display Time 08:00–19:30**
Author in Attendance: 17:30–19:00
Chairperson: Ivan Koulakov
- XL372 EGU2012-12149
C. Corela, G. Silveira, L. Matias, M. Schimmel, and W. Geissler
Broadband ambient noise surface wave tomography with OBS's in the Gulf of Cadiz (offshore SW Iberia and NW of Moroccan margin)
- XL373 EGU2012-13431
R.J.G. Torres, J.A. Furtado, H.G. Silva, J.F. Borges, B. Caldeira, M. Bezzeghoud, C. Cancela Pinto, and J. Carvalho
Validation of the Lower Tagus Valley velocity and structural model using ambient noise broadband measurements
- XL374 EGU2012-11849
A. García-Jerez, A. Jiménez, F. Luzón, F.J. Sánchez-Sesma, and E. Carmona
Analysis of array records of ambient noise at Low Andarax River Valley (SE Spain)
- XL375 EGU2012-4615
A. Jiménez, A. García-Jerez, and **F. Luzón**
Determining the S-wave velocity model for the Low Andarax River Valley (SE Spain) by means of the coherence function of the ambient noise
- XL376 EGU2012-404
X. Zhang, J. Liu, Z. Huang, Z. Yang, H. Shi, X. Wei, W. Yang, and L. Zhou
Dynamic Surface Wave Tomography in the China North-South Seismic Belt from Ambient Seismic Noise
- XL377 EGU2012-7320
W.-T. Liang and Y.-C. Gung
Surface Wave Tomography of South China Sea from Ambient Seismic Noise and Two-station Measurements
- XL378 EGU2012-5563
A. Garcia-Yeguas, I. Koulakov, A. Jakovlev, and J. M. Ibáñez
From 3D to 4D seismic tomography at El Hierro Island (Canary Islands, Spain)
- XL379 EGU2012-5561
B.-G. Luehr, I. Koulakov, H. Kopp, W. Rabbel, and J. Zschau
Ascent paths of fluids and partial melts at the Sunda Arc compared with other subduction zones by geophysical parameters
- XL380 EGU2012-9254
E. Giampiccolo, P. De Gori, C. Chiarabba, O. Cocina, and D. Patanè
Body wave attenuation heralds surfacing magma at Mount Etna (Italy): the 2001-2003 and 2007 - 2008 case studies
- XL381 EGU2012-7790
G. Barberi, O. Cocina, C. Chiarabba, P. De Gori, and **D. Patane'**
Time-resolved velocity tomography at Mount Etna (Italy) volcano during 2000-2008
- XL382 EGU2012-1549
L. De Siena, E. Del Pezzo, C. Thomas, A. Curtis, and L. Margerin
Boundary conditions in the stochastic description of the scattered wave-field: checking tomographic structures in an active caldera.

- XL383 EGU2012-12058
Á. Benediktsdóttir, Ó. Guðmundsson, A. Tryggvason, R. Böðvarsson, B. Brandsdóttir, K. Vogfjörð, and F. Sigmundsson
 Resolution for a local earthquake arrival time and ambient seismic noise tomography around the Eyjafjallajökull volcano
- XL384 EGU2012-1426
Ö. Çakır, A. Erduran, E. Kırkaya, Y.A. Kutlu, and M. Erduran
 Two-station Rayleigh and Love surface wave phase velocities between stations in Europe
- XL385 EGU2012-1429
Ö. Çakır, A. Erduran, E. Kırkaya, Y.A. Kutlu, and M. Erduran
 P and S receiver functions observed at stations in Europe
- XL386 EGU2012-8737
H. Karousova, J. Plomerova, L. Vecsey, and H. Munzarova
 Seismic tomography of the upper mantle beneath the Bohemian Massif (central Europe)

GD6.1/GMPV6.13/SM4.5 – Whole mantle and transition zone structure, dynamics and evolution: multidisciplinary perspectives (co-organized) – Orals

Convener: P. Tackley | Co-Conveners: C. Thomas, J. H. Davies

Room: 30

Chairperson: n.n.

- 13:30–13:45 EGU2012-9145
N. Coltice, T. Rolf, P.J. Tackley, and S. Labrosse
 Dynamic causes of the relation between area and age of the ocean floor
- 13:45–14:00 EGU2012-1513
S. King and H. Samuel
 Combine Effects of Plate Motions and Small-Scale Convection on Mantle Stirring Efficiency
- 14:00–14:15 EGU2012-13811
T. Geenen, T. Heister, A.P. van den Berg, M. Jacobs, and W. Bangerth
 3D high resolution mineral phase distribution and seismic velocity structure of the transition zone: predicted by a spherical-shell compressible mantle convection model.
- 14:15–14:30 EGU2012-7220
T. Nakagawa and P. Tackley
 Influence of magmatism on mantle cooling, surface heat flow and Urey ratio
- 14:30–14:45 EGU2012-4700
P. J. Webb, J. H. Davies, and D. R. Davies
 Using high-resolution mantle circulation models to understand the origin of fast seismic anomalies in the Tethyan mantle.
- 14:45–15:00 EGU2012-5101
H. Cizkova, A.P. van den Berg, W. Spakman, and C. Matyska
 The viscosity of Earth's lower mantle inferred from sinking speed of subducted lithosphere
- Chairperson: n.n.
- 15:30–15:45 EGU2012-5288
 F. Touthou, **A. Davaille**, G. Brandeis, I. Kumagai, and J. Vatterville
 Transient mantle plumes: hot heads and cold stems
- 15:45–16:00 EGU2012-3359
H. Samuel and N. Tosi
 The influence of post-perovskite strength on mantle thermo-chemical evolution
- 16:00–16:15 EGU2012-6309
R. Gassmüller and B. Steinberger
 Modelling the interaction between subducted slabs and thermo-chemical piles
- 16:15–16:30 EGU2012-8630
S. Hempel, T. Nissen-Meyer, and C. Thomas
 Lateral heterogeneities in the lowermost mantle - To what detail can we resolve them seismically?
- 16:30–16:45 EGU2012-10467
H. L. M. Benthien and S. Rost
 Deep mantle seismic heterogeneities in Western Pacific subduction zones
- 16:45–17:00 EGU2012-6500
 M.K. Young, **H. Tkalcic**, and T. Bodin
 Short-scale Heterogeneity in the Lowermost Mantle Revealed Through Partition Modeling of Seismic Body Waves

EMRP2.2/GMPV6.21/SM5.6/TS3.3 – A tribute to Luigi Burlini (co-organized) – Posters

Convener: A. Schubnel | Co-Conveners: S. Vinciguerra

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Zappone

- A62 EGU2012-1167
R.H.C. Bruijn, B.S.G. Almqvist, A. Biedermann, M.I. Erni, N. Tisato, B. Tripoli, and A.S. Zappone
 The Swiss Atlas of Physical Properties of Rocks (SAPHYR): progress and developments
- A63 EGU2012-2294
A.M. Hirt, Q. Wang, and A.R. Biedermann
 Relationship among petrofabric, magnetic anisotropy and seismic anisotropy in dunite
- A64 EGU2012-2450
L. Caricchi, C. Annen, A. Rust, and J. Blundy
 Reconstructing modalities of magma storage in the crust by thermo-rheological modelling
- A65 EGU2012-2788
P. Benson and A. Zappone
 Seismic properties of Southalpine metapelite at high temperatures and pressures: revisiting the alpha-beta quartz phase transition
- A66 EGU2012-3380
M. Pistone, L. Caricchi, P. Ulmer, E. Reusser, F. Marone, and L. Burlini
 Rheology of Three-Phase Magmas
- A67 EGU2012-4428
S. Vinciguerra, P. Benson, P.G. Meredith, G. Di Toro, G. De Natale, J.P. Burg, P.R. Young, and L. Caricchi
 Understanding pre-eruptive patterns: the rock physics interpretation
- A68 EGU2012-4515
A. Schubnel, J. Fortin, L. Burlini, and Y. Guéguen
 How Luigi saved our (experimental) life?
- A69 EGU2012-6727
 H Schijns, **I Jackson**, and D R Schmitt
 Laboratory Measurements of Frequency-Dependent Seismic Properties of Cracked and Fluid-Saturated Media
- A70 EGU2012-10012
C. Madonna, N. Tisato, C. Delle Piane, and E. H. Saenger
 Measurements of seismic wave attenuation for frequencies between 0.1 and 100 Hz in a Paterson Rig
- A71 EGU2012-12326
B. Cordonnier, B. Kaus, M. Manga, L. Caricchi, M. Pistone, J. Castro, K.-U. Hess, S. Gottschaller, D.B. Dingwell, and L. Burlini
 Brittle onset of monodispersed magmatic suspensions: from spheres to spheroid
- A72 EGU2012-12876
B.S.G. Almqvist, M. Herwegh, A.M. Hirt, A. Ebert, J. Linckens, J. Precigout, B. Leiss, J.M. Walter, and J.-P. Burg
 Laboratory seismic anisotropy in mylonites

Thursday, 26 April

SM1.1 – Open Session on Seismology (including Beno Gutenberg Medal Lecture) – Orals

Convener: C.M. Krawczyk | Co-Conveners: M. Cocco

Room: 27

Chairperson: CharLotte Krawczyk and Massimo Cocco

- 13:30–13:45 EGU2012-7050
T. Fischer, J. Horálek, F. Bouchaala, A. Boušková, H. ?ermáková, and J. Michálek
 Earthquake swarm 2011 in West Bohemia - new insights to the old problems
- 13:45–14:00 EGU2012-7142
I. tiberi, g. costa, and p. suhadolc
 Ground shaking scenarios for historical earthquakes in the southeastern Alps
- 14:00–14:15 EGU2012-8761
M. Yousof, H. Thybo, A. Levander, and I. Artemieva
 Why is the Kaapvaal different from other cratons?
- 14:15–14:30 EGU2012-4450
Nasim Karamzadeh, Gholam D. Javan, and Peter H. Voss
 Automatic earthquake detection and P- and S- phase picking for local seismic networks
- 14:30–14:45 EGU2012-6752
P. Arroucau, J. Davies, T. Bodin, M. Sambridge, and G. Vlahovic
 A Bayesian transdimensional algorithm for earthquake location and 1D velocity model determination
- 14:45–15:00 EGU2012-3219
A. Mignan
 The Earthquake Frequency-Magnitude Distribution Functional Shape
- Chairperson: CharLotte Krawczyk and Massimo Cocco
- 15:30–15:45 EGU2012-1883
M. Obrebski, F. Ardhuin, M. Schimmel, and E. Stutzmann
 Location, size and shape of ocean sources for Rayleigh and compressional (P) waves contained in microseisms.
- 15:45–16:00 EGU2012-11535
F. Ardhuin, T. H. C. Herbers, L. Marié, J. Y. Royer, M. Obrebski, E. Stutzmann, and M. Schimmel
 Low frequency noise generated by ocean waves: a consistent theory from surface gravity waves to seismic Rayleigh and waves.
- 16:00–17:00 EGU2012-14460
M. Campillo
 To what extent can seismology image the structures and the continuous deformation of the Earth? (Beno Gutenberg Medal Lecture)

GD5.1/GMPV6.2/SM2.2/TS6.5 – Subduction dynamics from surface to deep mantle (co-organized) – Orals

Convener: S. Buitier | Co-Conveners: F. Funicello, J. van Hunen

Room: 30

Chairperson: Susanne Buitier and Jeroen van Hunen

- 13:30–13:45 EGU2012-5291
S. Goes, F.A. Capitanio, G. Morra, and L. Fourel
 Subduction dynamics: effects of downgoing-plate density and strength
- 13:45–14:00 EGU2012-11837
M. D. Long, K. Paczkowski, L. Montesi, C. Lynner, and B. Foley
 Mantle flow beneath subducting slabs from seismological observations and geodynamical models
- 14:00–14:15 EGU2012-2913
A. Paul, G. Salaün, H. Karabulut, H.A. Pedersen, and A. Kömec Mutlu
 Traces of subduction and their relation to seismic anisotropy beneath Greece and Turkey: new evidences and questions from seismic tomography
- 14:15–14:30 EGU2012-11873
W. Stratford, C. Peirce, T. Knight, A. Watts, I. Grevemeyer, M. Paulatto, D. Bassett, J. Hunter, and L. Kalnins
 Louisville Ridge subduction at the Tonga-Kermadec trench: preliminary velocity models from wide-angle seismics

- 14:30–14:45 EGU2012-3385
R. Klemm, T. John, E.E. Scherer, S. Rondenay, and J. Gao
 Changes in dip of subducted slabs at great depth: Petrological and geochronological evidence from oceanic eclogite-facies rocks in the Chinese Tianshan
- 14:45–15:00 EGU2012-7615
R. Khabbaz Ghazian and S. Buiter
 A numerical investigation of the sensitivity of continental collision styles
- Chairperson: Francesca Funiciello and Susanne Buiter
- 15:30–15:45 EGU2012-14232
A. Rietbrock
 Structure, seismogenic properties, and aftershock distribution in the rupture area of the 2010 Maule, Chile, earthquake
- 15:45–16:00 EGU2012-2308
F. Corbi, F. Funiciello, M. Moroni, Y. van Dinther, and C. Faccenna
 Scaled models of the subduction interplate seismic cycle
- 16:00–16:15 EGU2012-9766
M. Thielmann and B.J.P. Kaus
 Shear heating induced lithospheric localization: Does it result in subduction?
- 16:15–16:30 EGU2012-3875
TW Becker, LA Alpert, IW Bailey, and MS Miller
 Slab deformation and seismicity
- 16:30–16:45 EGU2012-11690
K. P. Furlong and R. Govers
 Partitioning subduction deformation throughout the earthquake cycle: Why Pre-earthquake and co-earthquake deformation patterns don't agree.
- 16:45–17:00 EGU2012-5511
B. Guillaume, C. Gautheron, T. Simon-Labric, J. Martinod, M. Roddaz, and E. Douville
 Relief evolution above Patagonian slab window inferred from low-temperature thermochronology: subduction or climate?

SM2.4/G3.7/NH4.8/TS8.6 – Investigating earthquake physics through source imaging and scaling studies (co-organized) – Orals

Convener: G. Kwiatek | Co-Conveners: H. Sudhaus, R. M. Harrington, P.M. Mai, A. Piatanesi

Room: 26

Chairperson: n.n.

- 08:30–08:45 EGU2012-5287
G.A. Prieto, M. Florez, S.A. Barrett, G.A. Lopez, and G.C. Beroza
 Earthquake source scaling, stress drops and seismic efficiency of intermediate-depth earthquakes
- 08:45–09:00 EGU2012-1471
R. Davi and V. Vavrycuk
 Moment tensor inversion using uncalibrated sensors
- 09:00–09:15 EGU2012-4321
A. Oth
 Lateral stress drop variations and the Tohoku aftershocks in the context of earthquake source characteristics in Japan
- 09:15–09:30 EGU2012-1708
V.M. Zobin
 Source scaling of volcanic eruption seismicity
- 09:30–09:45 EGU2012-5349
 K. Chanard, **A. Schubnel**, S. Nielsen, S. Vinciguerra, J. Tadeucci, and R. Madariaga
 Radiation of kinked faults in laboratory earthquakes
- 09:45–10:00 EGU2012-11388
S. Latour, T. Gallot, S. Catheline, F. Renard, C. Voisin, M. Campillo, E. Larose, B. Vial, and A. Richard
 Dynamic friction of soft solids studied by ultrasonic speckle interferometry: slow slip and supershear rupture

GD3.5/SM2.7/TS10.8 – The Circum-Arctic region: Interplays between plate motions, mantle dynamics and the evolution of basins, margins and microcontinents (co-organized) – Orals

Convener: C. Gaina | Co-Conveners: R. D. Müller, J. Knies, K. Sigloch

Room: 30

Chairperson: Carmen Gaina and Jochen Knies

- 08:30–08:45 EGU2012-4752
V.A. Vernikovsky, D.V. Metelkin, A.E. Vernikovskaya, N.Yu. Matushkin, L.I. Lobkovsky, and E.V. Shipilov
 The Neoproterozoic-Paleozoic Arctic Margins: early stages of geodynamic evolution and plate reconstructions
- 08:45–09:00 EGU2012-5390
M. Tuchkova
 Triassic and Jurassic-Cretaceous deposits in the Western Chukotka: geodynamic implications, provenance studies and deformation
- 09:00–09:15 EGU2012-7707
V. Verzhbitsky, N. Kosenkova, R. Murzin, V. Vasilyev, S. Malysheva, D. Komissarov, V. Ananyev, Yu. Roslov, and A. Khudoley
 Tectonic structure, seismic stratigraphy and hydrocarbon potential of the North Kara Basin (Russian Arctic)
- 09:15–09:30 EGU2012-13474
S. Drachev, V. Pease, and R. Stephenson
 The Arctic lithosphere: an overview
- 09:30–09:45 EGU2012-9608
K. Piepjohn, W. von Gosen, and F. Tessensohn
 The structure of Ellesmere Island - a 400 km long transect across the northern margin of North America
- 09:45–10:00 EGU2012-6281
E.L. Miller, T. Dumitru, K. Brumley, E. Gottlieb, K. Meisling, and V. Akinin
 Propagating Atlantic rifts and Pacific slabs battle it out in the Arctic: A summary of extensional provinces in the Alaskan-Russian Arctic

COFFEE BREAK

Chairperson: Dietmar Müller and Karin Sigloch

- 10:30–10:45 EGU2012-1649
T. Dahl-Jensen, T.B. Larsen, and P. Voss
 Sedimentary thickness from Receiver Function analysis - a simple approach. Case study from North Greenland.
- 10:45–11:00 EGU2012-1447
T. Hermann and W. Jokat
 Crustal structure of the Boreas Basin formed at ultraslow spreading Knipovich Ridge - Northern North Atlantic
- 11:00–11:15 EGU2012-12868
A. Døssing, H.R. Jackson, J. Matzka, I. Einarsson, A.V. Olsen, J.M. Brozena, and T.M. Rasmussen
 New aerogeophysical results from the Lomonosov Ridge (Greenland side) and adjoining Amerasia and Eurasia Basins
- 11:15–11:30 EGU2012-3145
I. Koulakov, N.L. Dobretsov, A. Jakovlev, and N. Bushenkova
 Regional tomography reveals mantle traces of tectonic processes in the Circum-Arctic region
- 11:30–11:45 EGU2012-8302
E. Halvorsen, R. Løvlie, A. Andresen, S. Polteau, H. Walderhaug, and J. Faleide
 Complete Cenozoic remagnetization of Cretaceous sills and lavas from the High Arctic Large Igneous Province (HALIP) on Svalbard imposed during faulting and burial/ uplift.
- 11:45–12:00 EGU2012-7006
O. Petrov, N. Sobolev, A. Morozov, G. Grikurov, S. Shokalsky, S. Kashubin, and E. Petrov
 Modern Geodynamic Model of the Arctic Ocean

TS10.4/GD5.7/SM2.9 – Structure and evolution of the greater Alpine area (co-organized) – Orals

Convener: G. Hetényi | Co-Conveners: A. Paul, S. Schmid

Room: 20

Chairperson: Anne Paul, Stefan Schmid

- 08:30–08:45 EGU2012-6391
 M. Wagner, E. Kissling, and **S. Husen**
 A new crustal model of the western Alpine region derived by combining controlled-source seismology and local earthquake tomography data

- 08:45–09:00 EGU2012-8432
E. Kissling, R. Bousquet, M. Ford, and S. Schmid
 Formation of the arc of the Western Alps and Alps-Appennines transition in the light of new geophysical data on the lithospheric architecture around the Ligurian knot
- 09:00–09:15 EGU2012-5455
S. Favaro, M. R. Handy, A. Scharf, R. Schuster, and G. Pestal
 Exhumation structures in the Tauern Window and their relation to present-day crust-mantle structure in the Eastern Alps
- 09:15–09:30 EGU2012-7657
P. Hrubcova, P. Sroda, and Celebration 2000 and Sudetes 2003 Working Groups
 Contact of the Western Carpathians with the European Platform in the light of seismic refraction data
- 09:30–09:45 EGU2012-9176
M.R. Handy, K. Ustaszewski, E. Kissling, W. Spakman, and C.L. Rosenberg
 Kinematic model for decoupling orogenic crust from upper mantle during a switch in subduction polarity at the junction of the Alps, Carpathians and Dinarides
- 09:45–10:00 EGU2012-10178
F. Horváth, O. Sztanó, A. Uhrin, L. Fodor, A. Balázs, M. Kóbor, and G. Wórum
 Towards a dynamic model for the formation of the Pannonian basin

TS10.4/GD5.7/SM2.9 – Structure and evolution of the greater Alpine area (co-organized) – Posters

Convener: G. Hetényi | Co-Conveners: A. Paul, S. Schmid

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: György Hetényi

- A484 EGU2012-2786
U. Blaha, H. v. Rochow, M. Freimoser, and U. Teipel
 Reconstruction of the Tectonic Evolution of the Helvetic Zone between Lake Chiemsee and Saalach River, East Upper Bavaria, Germany
- A485 EGU2012-7378
S. Cao, F. Neubauer, J. Liu, and J. Genser
 Microfabrics and textures of the Rechnitz window, Eastern Alps
- A486 EGU2012-7443
M. Schulz, H. Pomella, M. Zerlauth, H. Ortner, and B. Fügenschuh
 The Helvetic nappes in the boundary area between Eastern and Western Alps
- A487 EGU2012-7579
D. Egli and N. Mancktelow
 Neogene Tectonic Evolution of the Mont Blanc Area
- A488 EGU2012-8435
 S. P. Jourdan, M.B. Bernet, T.D. Dumont, **S.G. Guillot**, S.S. Schwartz, and P.T. Tricart
 Oligocene - early Miocene evolution of the Western Alps drainage divide: constraints from multidisciplinary provenance analysis
- A489 EGU2012-8520
J. Pleuger, H. Zwingmann, N. Mancktelow, and M. Manser
 K-Ar age data of clay fault gouges from some major Nealpine faults
- A490 EGU2012-10371
S. Favaro, R. Schuster, M.R. Handy, A. Scharf, and G. Pestal
 The Mallnitz synform and its relation to the Mölltal fault (Tauern Window, Eastern Alps, Austria)
- A491 EGU2012-11096
T. Dumont, V. Franzi, and S. J. Matthews
 Gravity sliding in basinal setting, a surficial record of tectonic and geodynamic evolution; examples from the southern W. Alps and their foreland
- A492 EGU2012-4317
S. Kilian, M. Bischof, C. Garber, A. Kositz, J. Mackowitz, P. Sommer, H. Ortner, and B. Fügenschuh
 Structural synthesis of the western Northern Calcareous Alps
- A493 EGU2012-5360
 N. Vouillamoz, **C. Sue**, J.D. Champagnac, and P. Calcagno
 3D cartography of the Alpine Arc
- A494 EGU2012-12402
S. Lloyd and G. Bokelmann
 Ambient Noise Classification in the Vienna Basin
- A495 EGU2012-13391
C. Baranaba, A. Saraò, and M. Plasencia Linares
 Seismicity of North East Italy and data quality of the broadband network managed by OGS

- A496 EGU2012-12383
Y. Ren, B. Grecu, G. W. Stuart, G. A. Houseman, C. Ionescu, E. Hegedus, S. Radovanovic, and South Carpathian Project Working Group
 Ambient noise tomography in the Carpathian-Pannonian region
- A497 EGU2012-10058
G. Hetényi and the AlpArray Working Group
 AlpArray - an initiative to advance understanding of Alpine geodynamics
- A498 EGU2012-9077
J. Plomerova, V. Babuska, L. Vecsey, H. Munzarova, and H. Karousova
 Regional models of the upper mantle structure in the greater Alpine area
- A499 EGU2012-7888
E. Márton, V. ?osovi?, and D. Zampieri
 The Northern segment of the External Dinarides (Croatia) in relation to stable Adria: paleomagnetic constraints
- A500 EGU2012-8527
 J. Stipcevic, Lj. Vucic, **M. Herak**, and D. Herak
 Structure of the crust and upper mantle in the Southern External Dinarides as derived from receiver function analysis
- A501 EGU2012-9965
M. Trajanova
 Neogene evolution of the Slovenj Gradec Basin, Northern Slovenia (preliminary results)
- A502 EGU2012-8478
E. Brueckl, J. Brueckl, G.R. Keller, and B. Dando
 Coherent features of the Alpine mantle slabs imaged by recent seismic tomography studies
- A503 EGU2012-4413
G. Giacomuzzi, M. Civalleri, P. De Gori, and C. Chiarabba
 Vs and Vp/Vs models of the upper mantle beneath Italy: Insight into the geodynamics of central Mediterranean

TS10.2/GD3.10/GMPV6.19/SM2.10 – Geodynamics of the westernmost Mediterranean and NW Africa (co-organized) – Posters

Convener: C. J. Garrido | Co-Conveners: G. Booth-Rea, J. Galindo-Zaldivar, A. Chalouan, R. Carbonell, A. Levander, C. R. Ranero, V. Sallares, R. de Franco, N. Zitellini

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: G.V. Sallares, Galindo-Zaldivar, A. Chalouan, A. Levander, R. de Franco, N. Zitellini

- A455 EGU2012-4793
F. Mancilla, D. Stich, J. Morales, J. Julià, J. Diaz, A. Pazos, D. Córdoba, J. A. Pulgar, P. Ibarra, M. Harnafi, and F. Gonzalez-Lodeiro
 Crustal Thickness in the Ibero-Maghrebian region I: Northern Morocco
- A456 EGU2012-11349
 F. Mancilla, D. Stich, **J. Morales**, R. Martin, J. Diaz, A. Pazos, D. Córdoba, J. A. Pulgar, P. Ibarra, M. Harnafi, and F. Gonzalez-Lodeiro
 Crustal Thickness in the Ibero-Maghrebian region II: Southern Iberia Peninsula
- A457 EGU2012-8281
I. Jiménez-Munt, M Fernandez, and S. Zlotnik
 Combined underthrusting and mantle dripping - lateral dragging controlling the lithosphere structure of the NW-Moroccan margin and the Atlas Mountains
- A458 EGU2012-5607
 A. Siniscalchi, **G. Romano**, A. Jones, J. Ledo, J. Campanyà, and D. Kiyan
 Electrical signature of the Marrakech High Atlas: new insights from the TopoMed broad band magnetotelluric experiment.
- A459 EGU2012-7105
D. Bosch, R. Maury, M. El Azzouzi, F. Parat, and H. Bellon
 Neogene-Quaternary Middle Atlas basaltic province (Morocco): Isotope constraints
- A460 EGU2012-7294
A. M. Alvarez-Valero, O. Jagoutz, and C. Manthei
 Rapid crustal exhumation and mantle-melt extraction: Where has the crust gone?
- A461 EGU2012-3893
J.M González-Jiménez, C Marchesi, W.L. Griffin, R Gutiérrez-Narbona, J.-P Lorand, S.Y O'Reilly, C.J. Garrido, F Gervilla, and N.J. Pearson
 A 1-Ga history of melting in the western Mediterranean Subcontinental Lithospheric Mantle recorded in chromitites from the Ojén Ultramafic Massif (SW Spain)

- A462 EGU2012-12929
Z. Konc, C. Marchesi, C. J. Garrido, J. M. González-Jiménez, W. L. Griffin, O. Alard, K. Hidas, S. Y. O'Reilly, and N. Pearson
 Provenance and evolution of the western Mediterranean lithospheric mantle beneath the eastern Betics (S. Spain): insights from in-situ analyses of Os isotopes and platinum-group elements in sulphides from the Tallante mantle xenoliths
- A463 EGU2012-9056
Z. Konc, C. J. Garrido, A. Tommasi, J. A. Padron Navarta, K. Hidas, D. Bosch, C. Marchesi, and Cs. Szabó
 Age, origin and significance of SKS splitting in SE Iberia: insights from mantle xenoliths from Neogene alkaline basalts
- A464 EGU2012-2545
 L. Alpert, **T.W. Becker**, M. Miller, and A. Allam
 Mantle structure beneath the Alboran Sea from shear wave splitting
- A465 EGU2012-7719
A. Martí, O. Rosell, P. Queralt, J. Ledo, A. Marcuello, and E. Roca
 Are the geoelectric structures of the Betics lithosphere anisotropic? Insights from a complete dimensionality analysis of magnetotelluric data
- A466 EGU2012-2004
L. Bonatto, M. Schimmel, J. Gallart, and J. Morales
 Using Cross-Correlation to Detect Upper Mantle Phases beneath Spain and Morocco
- A467 EGU2012-8387
A. Carballo, M. Fernández, and I. Jiménez-Munt
 A lithospheric cross-section in the Western Mediterranean: from the Aquitanian/Ebro basins to north Algeria
- A468 EGU2012-5847
J. Gallart, R. Carbonell, J. Diaz, A. Gil, M. Ruiz, M. Harnafi, L. Elmoudhib, D. ElOuai, A. Levander, I. Palomeras, D. Cordoba, and FJ. Alonso-Chaves
 Crustal structure beneath the Rif Cordillera, North Morocco, from active seismic profiling
- A469 EGU2012-6474
A. Villaseñor, M. Maceira, J. Gallart, and TOPO-IBERIA Working Group
 Crustal structure of the Iberian Peninsula and Morocco obtained by joint inversion of seismic and gravity data
- A470 EGU2012-9114
L. Cowie and N. Kuszniir
 Crustal Thickness and the Distribution of Oceanic Lithosphere in the Western Mediterranean from Gravity Inversion
- A471 EGU2012-12180
 F. Mancilla, **B. Heit**, D. Stich, X. Yuan, J. Morales, and R. Kind
 HiRe: a High Resolution seismological project to study the crustal structure variations underneath Sierra Nevada Mountains and the surrounding areas, Betic range, Southern Spain.
- A472 EGU2012-10323
M. Prada, V. Sallares, C.R. Ranero, M. Guzman, N. Zitellini, I. Grevemeyer, R. de Franco, and MEDOC Cruise Party
 Deep structure of the Tyrrhenian basin from 2-D joint refraction and reflection travel-time tomography of wide angle seismic data
- A473 EGU2012-12990
C. R. Ranero, E. Gràcia, and T h e Geomargen-I cruise party
 Tectonic Structure of the Imbricated Wedge of the Gulf of Cadiz (Gibraltar Arc) revealed from new seismic images of the Geomargen-I cruise.
- A474 EGU2012-13023
C. R. Ranero, E. Gràcia, and T h e TOPOMED-GASSIS cruise party
 Imaging the Gibraltar Arc system across the Alboran Sea and South Balearic Basin (South Iberia): Results of the TOPOMED-GASSIS cruise
- A475 EGU2012-8795
 I. Grevemeyer, **C.R. Ranero**, D. Pesquer, and J. Gallart
 Slab rollback and continental break-up in a convergent setting - seismic structure of passive continental margins in the Western Mediterranean Sea
- A476 EGU2012-11994
F. Giaconia, M. Guzman Vendrell, G. Booth-Rea, C.R. Ranero, E. Gràcia, C. Lo Iacono and the TOPOMED survey party Team
 Structure of the Palomares margin from preliminary results of the TOPOMED-GASSIS seismic survey (Algero-Balearic basin, Western Mediterranean)
- A477 EGU2012-6159
G. Booth-Rea, F. Giaconia, J.M. Martínez-Martínez, J.M. Azañón, and C. R. Ranero
 Late Miocene east- to southeast-directed extension in the Betics and its role in the development of the Algero-Balearic basin (Southeastern Betics).

- A478 EGU2012-6083
K. Hidas, C.J. Garrido, G. Booth-Rea, J.M. Martínez-Martínez, J.A. Padrón-Navarta, Z. Konc, F. Giaconia, E. Frets, and C. Marchesi
 Backarc basin inversion leading to folding, shearing and intracrustal emplacement of the subcontinental lithospheric mantle: a structural study from the Ronda Peridotite Massif (Betic Cordillera, Southern Spain)
- A479 EGU2012-7792
A. Jabaloy Sánchez, G. Booth-Rea, A. Azdimousa, L. Asebriy, M. Vázquez-Vílchez, J. M. Martínez-Martínez, and J. Gabites
 40Ar/39Ar constraints on the activity of the Temsamane extensional detachment (eastern Rif, Morocco)
- A480 EGU2012-9783
 E. d'Acremont, C. Gorini, M. El Abbassi, M. Farran, S. Leroy, B. Mercier de Lépinay, S. Migeon, **J. Poort**, A. Ammar, J. Smit, D. Do Couto, G. Ercilla, and B. Alonso
 Past and present active sedimentation and tectonics in the South Alboran Sea
- A481 EGU2012-12746
D. Do Couto, C. Gorini, L. Jolivet, J. Letouzey, J. Smit, E. d'Acremont, J.L. Auxietre, L. Le Pourhiet, F. Estrada, M. Elabassi, A. Ammar, H. Jabour, and B. Vendeville
 Evolution of a Miocene sag basin in the Alboran Sea
- A482 EGU2012-12306
F. J. González, L. Somoza, T. Medialdea, R. León, T. Torres, J. E. Ortiz, and J. A. Martín-Rubí
 Discovery of ferromanganese hydrocarbon-related nodules associated with the Meknes mud volcano (Western Moroccan margin)
- A483 EGU2012-7180
C. Caricchi, L. Aldega, F. Cifelli, S. Corrado, M. Mattei, and F. Speranza
 First results from paleomagnetic and paleothermal analyses on internal Tertiary deposits (Tuscan Unit) of the Northern Apennines Chain

ERE2.6/SM3.8 – Geophysical imaging of CO2 geological storage sites (co-organized) – Orals

Convener: S. Lüth | Co-Conveners: S. Buske, R. Pevzner, C. Juhlin

Room: 19

Chairperson: Stefan Lüth, Christopher Juhlin

- 08:30–08:45 EGU2012-2101
F. Wagner, M. Möller, C. Schmidt-Hattenberger, T. Kempka, and H. Maurer
 Monitoring brine migration in analog transport models using surface-to-hole ERT
- 08:45–09:00 EGU2012-2690
A. Ivanova, T. Kempka, B. Norden, S. Lüth, and Ch. Juhlin
 Seismic modeling based on reservoir simulation for quantitative interpretation of 3D time-lapse seismic measurements at the Ketzin pilot site
- 09:00–09:15 EGU2012-10758
X. Zhang, D. Santonico, J.A.C. Meekes, A.R. Verdel, and R.J. Arts
 Passive and Active Seismic Monitoring of CO2-Storage at Ketzin
- 09:15–09:30 EGU2012-4327
J. Alcalde, D. Martí, C. Juhlin, A. Malehmir, A. Calahorrano, P. Ayarza, A. Pérez-Estaún, and R. Carbonell
 Characterization of the Hontomín Research Facility for Geological Storage of CO2: 3D Seismic Imaging Results
- 09:30–09:45 EGU2012-5957
G. Rossi, R.A. Chadwick, and G.A. Williams
 Sleipner CCS site: velocity and attenuation model from seismic tomography
- 09:45–10:00 EGU2012-12933
 V. Oye, **P. Zhao**, I. Lecomte, A. Braathen, and S. Olaussen
 Microseismic monitoring and velocity model building at the Longyearbyen CO2-Lab, Svalbard

ERE2.6/SM3.8 – Geophysical imaging of CO2 geological storage sites (co-organized) – Posters

Convener: S. Lüth | Co-Conveners: S. Buske, R. Pevzner, C. Juhlin

Hall XL | Display Time 08:00–19:30

Author in Attendance: 13:30–15:00

Chairperson: Stefan Buske, Stefan Lüth

- XL1 EGU2012-336
M. Gil, J. Götz, A. Ivanova, C. Juhlin, C.M. Krawczyk, S. Lüth, and C. Yang
 Enhanced imaging of CO2 at the Ketzin storage site: Inversion of 3D time-lapse seismic data

- XL2 EGU2012-6620
M. Ivandic, C. Yang, S. Lüth, C. Cosma, and C. Juhlin
Time-lapse analysis of sparse 3D seismic data from the CO₂ storage pilot site at Ketzin, Germany
- XL3 EGU2012-4659
A. Calahorrano, D. Martí, J. Alcalde, I. Marzán, P. Ayarza, R. Carbonell, and A. Pérez-Estaún
The Hontomin CO₂ geologic storage site: results from 2D seismic survey
- XL4 EGU2012-5272
M. Escalas, P. Queralt, J. Ledo, and A. Marcuello
Detection and characterization of cultural noise sources in magnetotelluric data: individual and joint analysis of the polarization attributes of the electric and magnetic field time-series in the time-frequency domain
- XL5 EGU2012-5297
X. Ogaya, P. Queralt, J. Ledo, A. Marcuello, and A.G. Jones
Preliminary results of the 3D magnetotelluric characterization of the Research Laboratory on Geological Storage of CO₂ in Hontomín (Burgos, Spain)
- XL6 EGU2012-5425
E. Vilamajó, P. Queralt, J. Ledo, and A. Marcuello
A detectability study of CO₂ migration at the Research Laboratory on Geological Storage of CO₂ in Hontomín (Burgos, Spain) using a deep controlled electromagnetic source
- XL7 EGU2012-5657
M. Möller, C. Schmidt-Hattenberger, F. Wagner, and S. Schröder
First results of an integrated monitoring concept to detect brine migration processes in freshwater aquifers
- XL8 EGU2012-10118
E. Roux and **X. Garcia**
Optimizing an experimental design for an electromagnetic experiment
- XL9 EGU2012-12807
G. Muñoz and O. Ritter
Electromagnetic monitoring of CO₂ dissemination: a case study in the North Eastern German Basin
- XL10 EGU2012-13054
A. Romdhane, C. Ravaut, and E. Querendez
CO₂ Monitoring at the Sleipner Field with Full Waveform Inversion

GD3.1/GM3.7/SM4.4/TS1.6 – Plate kinematics, mantle convection, paleogeography and sea level (co-organized) – Posters

Convenor: R. D. Müller | Co-Conveners: H.-P. Bunge, J. Golonka, M. Seton, S. Brune, L. Quevedo, G. Helffrich, G. Laske, Y. Ricard

Hall XL | Display Time 08:00–19:30

Author in Attendance: 15:30–17:00

Chairperson: n.n.

- XL163 EGU2012-5692
B. Guillaume, L. Husson, and G. Choblet
Freeboard, sea level and dynamic topography during aggregation of a supercontinent
- XL164 EGU2012-6101
M. W?osi?ska, T. Niedzielski, I. G. Priede, and P. Migo?
On a goodness-of-fit between theoretical hypsometric curve and its empirical equivalents derived for various depth bins from 30 arc-second GEBCO bathymetry
- XL165 EGU2012-6897
L. G. Yeo, C. Heine, and R. D. Müller
Using global paleogeographic datasets towards ground-truthing dynamic topography models
- XL166 EGU2012-9517
S. M. Masterton, P. Markwick, R. Bailiff, D. Campanile, E. Edgecombe, D. Eue, A. Galsworthy, and K. Wilson
The integration of palaeogeography and tectonics in refining plate tectonic models: an example from SE Asia
- XL167 EGU2012-5537
E. Ostanciaux, C. Robin, F. Guillocheau, G. Trotin, and **L. Husson**
The eustatic chimera: isn't the Cenomanian maximum flood a dynamic topography puzzle?
- XL168 EGU2012-12121
A. Rozel, T.W. Becker, C. Faccenna, F. Funiciello, and L. Husson
Scaling laws of dynamic topography and uplift-rate in 3D spherical geometry
- XL169 EGU2012-10926
L. Anderson, F. Ferraccioli, G. Eagles, B. Steinberger, and J. Ritsema
Spatial and Temporal variability in Dynamic Topography in East Antarctica
- XL170 EGU2012-4670
L. Quevedo, C. Heine, and R. D. Müller
Reconstructing global grids of oceanic and continental lithospheric thickness

- XL171 EGU2012-6981
M. Seton and R.D. Muller
Long-term sea level and the cycle of supercontinent formation and dispersal
- XL172 EGU2012-1208
H. Zhang and J.M. Zhao
P-wave velocity structure under Tibetan plateau revealed by seismic tomography
- XL173 EGU2012-1219
J.M. Zhao
Where Has the Shortened Lithosphere Gone —Mantle Flow below the Tibet
- Hall XL | Display Time 08:00–19:30**
Author in Attendance: 17:30–19:00
Chairperson: n.n.
- XL174 EGU2012-3942
V. Puchkov
Lithospheric response to plume- and plate-tectonic interactions
- XL175 EGU2012-4885
S. Brune and C. Heine
3d Numerical Modeling of the Equatorial Atlantic Break-Up
- XL176 EGU2012-5433
C. Cadio, M. Ballmer, **I. Panet**, N. Ribe, and M. Diament
New constraints on the Hawaiian swell origin using wavelet analysis of the geoid to topography ratio
- XL177 EGU2012-6145
J. Reyes and **L.E. Lara**
Juan Fernández Ridge (Nazca Plate): petrology and thermochronology of a rejuvenated hot spot trail
- XL178 EGU2012-7692
E. Koivisto and R.G. Gordon
A Globally Self-Consistent Model of Plate Motions Relative to the Hotspots for the Past 48 Million Years
- XL179 EGU2012-3262
M. D. Ballmer, G. Ito, C. J. Wolfe, C. Cadio, and S. C. Solomon
Double layering of a thermochemical plume in the upper mantle beneath Hawaii
- XL180 EGU2012-8537
M. Pears and C. Lithgow-Bertelloni
Can plumes collapse?: Experimental results and applications to Iceland.
- XL181 EGU2012-8601
R. Govers, K. Warners-Ruckstuhl, C. Hochard, P. Webb, R. Wortel, G. Stampfli, C. van Oosterhout, and H. Davies
Evolution of forces on Eurasia since the Miocene
- XL182 EGU2012-8930
Á. Benediktsdóttir, R.N. Hey, F. Martinez, and Á. Höskuldsson
Tectonic Evolution of the Reykjanes Ridge During the Past 15
- XL183 EGU2012-11400
P. Szatmari
Rifting by continental rotation, mantle flow and hotspot volcanism in the salt-depositing South Atlantic

GD6.1/GMPV6.13/SM4.5 – Whole mantle and transition zone structure, dynamics and evolution: multidisciplinary perspectives (co-organized) – Posters

Convener: P. Tackley | Co-Conveners: C. Thomas, J. H. Davies

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XL193 EGU2012-9256
C. Thomas
Lower mantle scattering observations at temporary arrays
- XL194 EGU2012-12020
P. J. Tackley
The Death of Slabs and Segregation of Basalt at the Core Mantle Boundary: Influence of Crustal Thickness, Viscosity and Thermal Conductivity
- XL195 EGU2012-11466
U. Hansen and S. Dudge
Self organized layering in the Earth's mantle, phase- and compositional boundary layers
- XL196 EGU2012-6310
J. Dannberg and S.V. Sobolev
Dynamics of thermo-chemical mantle plumes and their influence on surface topography

- XL197 EGU2012-7776
N. Tosi, D. Yuen, R. Wentzcovich, and N. deKoker
Mantle Dynamics Studied with Parameterized Prescription From Mineral Physics Database
- XL198 EGU2012-5664
A. Biggin, B. Steinberger, J. Aubert, N. Suttie, R. Holme, T. Torsvik, D. van der Meer, and D. van Hinsbergen
Long term geomagnetic variations and whole-mantle convection processes
- XL199 EGU2012-3182
J. Julià and A.A. Nyblade
Probing the upper mantle transition zone under Africa with P520s conversions: Implications for temperature and composition.
- XL200 EGU2012-7903
L. Vinnik, G. Silveira, S. Kiselev, V. Farra, M. Weber, and E. Stutzman
Architecture of the Cape Verde hotspot: implications for properties of the transition zone
- XL201 EGU2012-10045
B. Knappmeyer-Endrun, F. Krüger, and PASSEQ Working Group
Changes in the mantle transition zone from central Europe to the East European Craton as seen by receiver functions
- XL202 EGU2012-4606
M. Dec, M. Malinowski, B. Nita, and E. Perchuc
Seismic imaging of the upper mantle beneath the border of the North American Craton based on USArray data
- XL203 EGU2012-7740
F. Cramer, P.J. Tackley, I. Meilick, T.V. Gerya, and B.J.P. Kaus
Slab-mantle interactions in simulations of self-consistent mantle convection with single-sided subduction
- XL204 EGU2012-6051
T. Rolf, N. Coltice, and P. J. Tackley
Linking continental drift, plate tectonics and the thermal state of the Earth's mantle
- XL205 EGU2012-2170
M.F. Osmaston
Did clockwise rotation of Antarctica cause the break-up of Gondwanaland? An investigation in the 'deep-keeled cratons' frame for global dynamics

SM5.1/NH4.7 – Anthropogenic seismicity and seismic hazard: methods, observations and modeling (co-organized) – Posters

Convener: S. Cesca | Co-Conveners: B. Orlecka-Sikora, A. F. do Nascimento, S. Turuntaev, J. Suckale

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: S.B. Turuntaev

- A345 EGU2012-8158
A.V. Kononov, V.N. Patrikeev, D.A. Safonov, and T.V. Nagornyh
The 12 June 2005 Mw 5.6 seismic event near the offshore Piltun-Astokhskoye oil field production area, Northeastern Sakhalin Island (Russia): was it induced?
- A346 EGU2012-9964
D. Kraaijpoel and B. Dost
Analysis of subsalt induced seismicity in the Netherlands
- A347 EGU2012-1972
F. Grigoli, S. Cesca, T. Braun, J. Philipp, and T. Dahm
Automated seismic event location by arrival time stacking: Applications to local and micro-seismicity
- A348 EGU2012-5333
L. Rudzinski and W. Debski
Extending the Double Difference location technique - improving depth resolution
- A349 EGU2012-3622
S.V. Vorokhobina and S.B. Turuntaev
Investigation of the seismic activity under the blasting influence
- A350 EGU2012-1477
S. Cesca, S. Monna, D. Kaiser, and T. Dahm
Imaging velocity and attenuation anomalies in mining environments using Acoustic Emissions
- A351 EGU2012-1500
S. Maghsoudi, S. Cesca, S. Hainzl, D. Kaiser, and T. Dahm
Spatiotemporal patterns of acoustic emission (AE) activity in salt mine
- A352 EGU2012-4738
Y. Xu and C.H. Zhang
Seismic responses of Baozhushi gravity dam upon MS 8.0 Wenchuan Earthquake

- A353 EGU2012-2009
K. Pavlou, V. Kouskouna, K. Makropoulos, G. Drakatos, and P. Petrou
 Pournari Dam (W. Greece) Impoundment and Triggered Seismicity
- A354 EGU2012-5973
G. Yfantis, S. Pytharouli, R. Lunn, A.F. Do Nascimento, and M. Takeya
 Towards the optimisation of landslide monitoring using short-period seismometers.

SM5.2/ERE5.6 – Induced Seismicity: Theory and Observation (co-organized) – Posters

Conveners: J. C. Groos, P. Jousset | Co-Conveners: G. Kwiitek, M. Bohnhoff, J.R.R. Ritter, R. Gritto

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: P. Jousset

- A355 EGU2012-686
E. Bazhenova, A. Troyanov, Yu. Astrakhsantsev, N. Nachapkin, and A. Vdovin
 Seismoacoustic Emission and Lunar-Solar Tidal Deformation Processes in the Geo-Environment Volume
- A356 EGU2012-652
E. Bazhenova, A. Troaynov, Yu. Astrakhsantsev, N. Beloglazova, A. Vdovin, and N. Nachapkin
 Results of researches Seismoacoustic Emission and Electromagnetic Radiation of Fractured Rocks in Deep Wells
- A357 EGU2012-5589
J. Vlcek and T. Fischer
 Seismicity induced by hydraulic stimulation - seismic efficiency of injection and spatiotemporal analysis
- A358 EGU2012-12050
M. Bischoff, M. Keyser, T. Plenefisch, U. Wegler, E. Wetzig, L. Ceranna, and C. Bönnemann
 Microseismic survey at the geothermal site GeneSys in Hannover, Germany
- A359 EGU2012-9039
E.A. Gudnason, K. Agustsson, and O.G. Flovenz
 The GEISER project: Analysis of induced seismicity in the Reykjanes geothermal system, SW-Iceland
- A360 EGU2012-2956
N. Sharma, V. Convertito, N. Maercklin, and A. Zollo
 Modeling of Strong Ground Motion in "The Geysers" Geothermal Area
- A361 EGU2012-6690
R. Gritto and S. Jarpre
 Reservoir Changes Derived from Seismic Observations at The Geysers Geothermal Field, CA, USA
- A362 EGU2012-6609
 M. L. Andersen, **T. B. Larsen**, and M. Nettles
 Analysis of seismogenic rumblings from Helheim Glacier, South East Greenland
- A363 EGU2012-5806
 L. Dimitrova, G. Georgieva, S. Nikolova, **D. Solakov**, S. Simeonova, I. Asparuhova, and I. Popova
 Tectonic and induced seismicity in the region of Mirovo salt deposit, NE Bulgaria
- A364 EGU2012-6936
 A. Kozyrev, Iu. Fedotova, and **O. Zhuravleva**
 Methods of seismic zone localization in the highly stressed geological environment in mining natural-engineering system
- A365 EGU2012-6975
 Iu.V Fedotova and **S. A. Zhukova**
 Interrelation of rock mass seismicity change and subsoil hydrogen emanation
- A366 EGU2012-8758
N. Gestermann and T. Plenefisch
 Microseismic events in the vicinity of the natural gas fields of Verden in Northern Germany
- A367 EGU2012-10482
J. C. Groos, M. Grund, and J. R. R. Ritter
 Automated detection of microseismic events in the Upper Rhine valley near the city of Landau/South Palatinate
- A368 EGU2012-1660
B. Homuth, G. Rumpker, and M. Kracht
 Microseismic monitoring in the northern Upper-Rhine Graben
- A369 EGU2012-11183
K. Plenkens, J. Ritter, and M. Schindler
 Detecting weak seismicity in urban areas using waveform stacking and cross correlation: Application to a stimulation experiment
- A370 EGU2012-10190
E. Gaucher
 Effective sensitivity estimate of the microseismic monitoring network deployed in Bruchsal geothermal field

- A371 EGU2012-11827
T. Megies and J. Wassermann
 Microseismicity Observed at a Non-Pressure-Stimulated Geothermal Plant
- A372 EGU2012-2957
T. Kraft, S. Wiemer, and S. Husen
 GeoBest - A contribution to the long term development of deep geothermal energy in Switzerland.

SM5.4/NH4.6 – Time-dependent earthquake occurrence and seismic hazard: physics and statistics (co-organized) –

Orals

Convener: G. Zöller | Co-Conveners: S. Hainzl, M. Cocco, M. Naylor

Room: 26

Chairperson: Sebastian Hainzl

- 10:30–11:00 EGU2012-8976
J. Schmittbuhl, M. Bouchon, H. Karabulut, M. Aktar, S. Özalaybay, O. Lengliné, V. Durand, and M.P. Bouin
 Micro-Seismicity and Large Earthquake nucleation in Marmara Sea Region
- 11:00–11:15 EGU2012-8003
V. Durand, M. Bouchon, H. Karabulut, D. Marsan, and J. Schmittbuhl
 Link between Coulomb stress changes and seismic activation in the Marmara sea after the Izmit (Turkey) earthquake
- 11:15–11:30 EGU2012-10344
S. S. Nalbant, J. McCloskey, S. Murphy, N. Simao, and T. Lindsay
 Modelling Long-term Stress on the Sunda Megathrust and Implications for Earthquake Forecasting
- 11:30–11:45 EGU2012-10462
J. McCloskey, S. S. Nalbant, N. Simao, and T. Lindsay
 Long Term Slip Deficit Modelling for the Sunda Megathrust beneath the Mentawai Islands, Sumatra
- 11:45–12:00 EGU2012-9357
K. Koketsu, Y. Yokota, N. Kato, and T. Kato
 Identification and simulation of seismic supercycles along the Japan Trench including the 2011 Tohoku earthquake

LUNCH BREAK

Chairperson: Gert Zöller

- 13:30–13:45 EGU2012-10109
G. B. Brietzke, S. Hainzl, and G. Zöller
 Synthetic Earthquake Statistics From Physical Fault Models for the Lower Rhine Embayment
- 13:45–14:00 EGU2012-2677
I. Mosca, R. Console, and G. D'Addezio
 Renewal models of seismic recurrence applied to paleoseismological and historical observations
- 14:00–14:15 EGU2012-9029
B. Mena Cabrera, S. Wiemer, and C. E. Bachmann
 Building robust models to forecast the induced seismicity related to geothermal reservoir enhancement
- 14:15–14:30 EGU2012-9778
C. Bach and S. Hainzl
 Improving empirical aftershock modeling using additional source information
- 14:30–14:45 EGU2012-12936
S. Steacy, M. Gerstenberger, C. Williams, D. Rhoades, and A. Christophersen
 Statistical and hybrid statistical/Coulomb modelling of the Canterbury earthquake sequence
- 14:45–15:00 EGU2012-3536
 M. Holschneider, **C. Narteau**, P. Shebalin, Z. Peng, and D. Schorlemmer
 Bayesian analysis of the modified Omori law
- Chairperson: Massimo Cocco
- 15:30–16:00 EGU2012-13170
M. J. Werner and A. M. Rubin
 Spatial Distributions of Foreshocks and Aftershocks: Static or Dynamic Triggering
- 16:00–16:15 EGU2012-2403
Dr. M. Baiesi, Dr. J. Davidsen, and C. Gu
 Triggering cascades and statistical properties of aftershocks

- 16:15–16:30 EGU2012-5007
M. Holschneider, G. Zöller, and S. Hainzl
 On the statistical analysis of maximal magnitude
- 16:30–16:45 EGU2012-4350
N. Hirata, S. Yokoi, K.Z. Nanjo, and H. Tsuruoka
 A forecast experiment of earthquake activity in Japan under Collaboratory for the Study of Earthquake Predictability (CSEP)
- 16:45–17:00 EGU2012-13297
D. Albarello and M. Mucciarelli
 Empirical testing of earthquake recurrence models at source and site

SM5.4/NH4.6 – Time-dependent earthquake occurrence and seismic hazard: physics and statistics (co-organized) –

Posters

Convener: G. Zöller | Co-Conveners: S. Hainzl, M. Cocco, M. Naylor

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Mark Naylor

- A373 EGU2012-1291
E. Sasorova and B. Levin
 The comparative analysis of the seismicity in subduction and spreading zones.
- A374 EGU2012-1624
P. Paradisopoulou, E. Papadimitriou, J. Mirek, and V. Karakostas
 Probability distribution on faults near the city of Thessaloniki (Northern Greece)
- A375 EGU2012-2325
G. Vergos, D.N. Arabelos, and M. E. Contadakis
 Evidence for Tidal triggering on the earthquakes of the Hellenic Arc, Greece.
- A376 EGU2012-7248
O. Lengliné, J. Schmittbuhl, G. Daniel, H. Karabulut, V. Durand, M. Bouchon, and M.-P. Bouin
 Recent seismicity in the Cinarcik basin, east Marmara: swarm activity on localized earthquake clusters
- A377 EGU2012-9202
K. Leptokaropoulos, E. Papadimitriou, B. Orlecka-Sikora, and V. Karakostas
 Stress Field Variation after the 2001 Skyros Earthquake, Greece, Derived from Seismicity Rate Changes
- A378 EGU2012-9650
D. De Gaetano, J. McCloskey, and S. Nalbant
 The systematic study of the stability of forecasts in the rate- and state-dependent model.
- A379 EGU2012-11320
M. Nic Bhloscaidh, J. McCloskey, S. S. Nalbant, and C. J. Bean
 Statistical quantification of time-dependence in the static Coulomb model
- A380 EGU2012-2584
F. Maccaferri, E. Rivalta, L. Passarelli, and S. Jonsson
 The stress shadow induced by the 1975-1984 Krafla rifting event
- A381 EGU2012-5593
G. Zöller and Y. Ben-Zion
 Modeling spatio-temporal variations of seismicity in the San Jacinto Fault Zone
- A382 EGU2012-7266
S. Hainzl and D. Marsan
 Seismicity driven by transient aseismic processes: Detection and statistical modeling
- A383 EGU2012-8602
A.K. Adamaki, E.E. Papadimitriou, V.G. Karakostas, and G.M. Tsaklidis
 Statistical Analysis Of Seismicity Rate Changes As Precursors Of Strong Earthquakes
- A384 EGU2012-4517
 G. Georgoulas, **A. Konstantaras**, E. Maravelakis, E. Katsifarakis, and C.D. Stylios
 On the problem of earthquake correlation in space and time over large distances
- A385 EGU2012-8645
T. Harada and K. Ishibashi
 Remarkable recurrence of M~7- intermediate-depth earthquakes beneath the Hindu Kush
- A386 EGU2012-3443
M. Imoto, H. Fujiwara, and B. Enescu
 M8 earthquakes in Kanto likely triggered by large events along the Japan Trench
- A387 EGU2012-9564
I Votsi, N Limnios, G Tsaklidis, and E Papadimitriou
 Estimation of the occurrence rate of strong earthquakes based on hidden semi-Markov models

- A388 EGU2012-11579
A. Tzanis and F. Vallianatos
 Multidimensional earthquake frequency distributions consistent with self-organization of complex systems: The interdependence of magnitude, interevent time and interevent distance
- A389 EGU2012-13708
 A. Ramírez-Rojas, E. L. Flores-Marquez, and **S. Valverde-Esparza**
 Weibull Characterization of inter-event lags of Earthquakes occurred in the Pacific Coast of Mexico
- A390 EGU2012-11791
 P. Shebalin, **C. Narteau**, J. Zechar, and M. Holschneider
 Combining earthquake forecast models using differential probability gains
- A391 EGU2012-12888
R.A. Clements, Á. González, and D. Schorlemmer
 The Testability of Mmax Estimates
- A392 EGU2012-14379
D. Vamvakaris, C.B. Papazachos, Ch. Papaioannou, E.M. Skordilis, and G.F. Karakaisis
 Time-dependent seismic hazard using synthetic catalogs for the broader Aegean area: Quantifying the effect of uncertainty of time-dependent mainshock predictions on seismic hazard
- A393 EGU2012-7737
B. Polidoro, I. Iervolino, E. Chioccarelli, and M. Giorgio
 Time dependent seismic hazard
- A394 EGU2012-9152
D.H. Rood, R. Anooshehpour, G. Balco, J. Brune, R. Brune, L. Grant Ludwig, K. Kendrick, M. Purvance, and I. Saleeby
 Testing seismic hazard models with Be-10 exposure ages for precariously balanced rocks
- A395 EGU2012-3836
M. Chavez, M. Ashworth, E. Cabrera, D. Emerson, A. Salazar, N. Perea, and Ch. Moulinec
 HPC modeling of the wave propagation of extreme magnitude earthquakes
- A396 EGU2012-6842
C. H. Sung and C.-T. Lee
 Analysis of Single-Path Sigma Using SMART-1 Array Data in Taiwan
- A397 EGU2012-13666
C. Abril, M.L. Bermúdez, and M.C. Dimaté
 Attenuation Relationships for Colombian Seismic Hazard Assessment
- A398 EGU2012-9451
S. Lennartz, I. G. Main, M. Zaiser, and F. Kun
 Effect of ageing in fibre bundle models on the evolution of acoustic and silent damage in time-dependent failure
- A399 EGU2012-3322
W B Shen, D Wang, C Hwang, and H Ding
 Detecting anomalous gravity signals prior to earthquakes larger than Mw7.0 based on a superconducting gravimeter records in recent four years
- A400 EGU2012-4080
E. Tsiapas, D. Soumelidou, and C. Tsiapas
 EARTHQUAKES - VOLCANOES(Causes - Forecast - Counteraction)

SM5.7/GMPV6.14/NH2.3 – Electromagnetic, seismic and other geophysical methods applied to volcano imaging and monitoring for hazard assessment (co-organized) – Orals

Convener: M. Miensopust | Co-Conveners: M. Hensch, A. G. Jones

Room: 2

Chairperson: Marion Miensopust, Martin Hensch

- 13:30–13:45 EGU2012-249
S. Aivazpourporgou, S. Thiel, P. Hayman, L. Moresi, and G. Heinson
 Thermal structure of the Newer Volcanic Province, Western Victoria, Australia from a long period Magnetotelluric (MT) array
- 13:45–14:00 EGU2012-12153
P. Wawrzyniak, J. Zlotnicki, P. Sailhac, and G. Marquis
 Resistivity variations associated with the 1998 large eruption at La Fournaise volcano inferred by continuous MT monitoring
- 14:00–14:15 EGU2012-8423
M. Hensch, B. Brandsdóttir, Th. Árnadóttir, and S. Cesca
 Intrusive activity beneath Eyjafjallajökull: Moment- and Stress-Tensor-Inversion of volcanic earthquakes to constrain driving forces of the 2010 eruption

- 14:15–14:30 EGU2012-9804
F. Fuchs, M. Lupi, S. S. Jakobsdóttir, T. Thordarson, and S. A. Miller
 Seismicity revealed in the Snaefellsnes Volcanic Zone, Iceland
- 14:30–14:45 EGU2012-2039
C. Huebscher, M. Ruhnau, and G.A. Dehghani
 Frequent underwater volcanism in the central Aegean Sea
- 14:45–15:00 EGU2012-14405
C.B Papazachos, D. Panagiotopoulos, A.V. Newman, S. Stiros, G. Vougioukalakis, M. Fytikas, T. Laopoulos, K. Albanakis, D. Vamvakaris, E. Karagianni, L. Feng, P. Psimoulis, and F. Moschas
 Quantifying the current unrest of the Santorini volcano: Evidence from a multiparametric dataset, involving seismological, geodetic, geochemical and other geophysical data

SM5.7/GMPV6.14/NH2.3 – Electromagnetic, seismic and other geophysical methods applied to volcano imaging and monitoring for hazard assessment (co-organized) – Posters

Convener: M. Miensopust | Co-Conveners: M. Hensch, A. G.. Jones

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Marion Miensopust, Martin Hensch

- A401 EGU2012-13537
 M. G. Di Giuseppe, A. Troiano, C. Troise, and **G. De Natale**
 Cluster analysis applied to multiparameter geophysical dataset
- A402 EGU2012-10082
K. Meier, M. Hort, and J. Wassermann
 Non-Poissonian Nature of Strombolian Surface Activity at Yasur Volcano, Vanuatu
- A403 EGU2012-5281
A. Siniscalchi, S. Tripaldi, M. Neri, M. Balasco, G. Romano, J. Ruch, and D. Schiavone
 Flank instability structure of Mt Etna inferred by a magnetotelluric survey
- A404 EGU2012-11673
A. Efstathiou, A. Tzanis, S. Chailas, E. Lagios, and M. Stamatakis
 High resolution imaging of the Methana volcanic complex, Greece, with magnetotelluric and aeromagnetic data
- A405 EGU2012-7637
A. Novák, Sz. Harangi, B. Kiss, L. Szarka, and Cs. Molnár
 Combined magnetotelluric and petrologic constrains for the nature of the magma storage system beneath the Ciomadul volcano (SE Carpathians)
- A406 EGU2012-9377
M. Neukirch, X. Garcia, S. Galiana, and E. Roux
 GarField - A MT Survey of the Crustal Structure of the Intraplate Volcanic Region La Garrotxa, Northwestern Spain
- A407 EGU2012-5861
M.P. Miensopust, A.G. Jones, G.P. Hersir, and A.M. Vilhjálmsson
 The resistivity structures around and beneath the Eyjafjallajökull volcano, Southern Iceland: first insides from electromagnetic investigations
- A408 EGU2012-6814
T. J. Lee, J. Yang, J. Choi, S. K. Lee, and Y. Song
 The sea effect in 3D magnetotelluric data obtained in Jeju Island, Korea
- A409 EGU2012-7101
S. Ballmer, C.J. Wolfe, P.G. Okubo, M.M. Haney, and C.H. Thurber
 Studying temporal velocity changes with ambient seismic noise at Hawaiian volcanoes
- A410 EGU2012-1312
K. Whaler, N.E. Johnson, M. Desissa, S. Hautot, S. Fisseha, and G.J.K. Dawes
 Large mantle magma volumes imaged magnetotellurically beneath an active magmatic segment in Afar, Ethiopia
- A411 EGU2012-4870
J. Zlotnicki, F. Li, and M. Parrot
 Detection of electromagnetic anomalies related to volcanic eruptions by DEMETER micro-satellite: August 2004 - December 2010
- A412 EGU2012-5762
H. Brenot, N. Theys, J. van Gent, M. Van Roozendaal, R. van der A, L. Clarisse, D. Hurtmans, Y. Ngadi, P.-F. Coheur, and C. Clerbaux
 Global multi-sensor satellite monitoring of volcanic SO₂ and ash emissions in support to aviation control

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

Convener: F. Storti | Co-Conveners: S. Buiter

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Fabrizio Storti and Susanne Buiter

- A413 EGU2012-2078
I.D. Bastow, R.S.M. De Plaen, and R.J. Gallacher
The Nature of the Cameroon Volcanic Line: Evidence from Seismic Anisotropy and Receiver Functions
- A414 EGU2012-5053
H. Otsuka, J. Ashi, S. Morita, and M. Tanahashi
Attempt to estimate uplift process of outer ridge taking account of distribution and geometry of Foldback Reflectors
- A415 EGU2012-9801
C.-Y. Hsieh, K.-M. Yang, and B.-I. Chuang
Trishear model and kinematics of a fault-related structure in the frontal part of Fault-and-thrust belt, NW Taiwan
- A416 EGU2012-2555
Y.T. Lo and H.Y. Yen
Gravity data inversion for 3D topography of the Moho discontinuity by separation of sources in Taiwan region
- A417 EGU2012-8177
K.-M. Yang, J.-C. Wu, E.-W. Cheng, Y.-R. Chen, W.-C. Huang, C.-C. Tsai, J.-B. Wang, and H.-H. Ting
Development of Tectonostratigraphy in Distal Part of Foreland Basin in Southwestern Taiwan
- A418 EGU2012-492
J. Ukass, T. Saks, and K. Popovs
Thickness Reconstruction of Layers by 3D Geometrical Model to Characterize Caledonian Tectonic Complex and Data in Latvia
- A419 EGU2012-4846
H. Kranis, E. Skourtsos, L. Gouliotis, and S. Lozios
Structural Setting and Upper Quaternary landscape evolution at Delphi, Central Greece
- A420 EGU2012-5032
J. Scheibz, H. Haeusler, F. Kohlbeck, W. Chwatal, and C. Koenig
High resolution geophysics reveal a new Neogene basin southeast of the Leitha Mountains - The Winden Syncline (Burgenland, Austria)
- A421 EGU2012-5201
H. Häusler
Contribution to the discussion of folded Pannonian strata in the Southern Vienna Basin
- A422 EGU2012-2623
J. E. Reber, O. Galland, M. Dabrowski, D. W. Schmid, and P. R. Cobbold
On the usefulness of sheath folds as kinematic indicators
- A423 EGU2012-5359
L. Rodriguez, J. Cuevas, and J. M. Tubía
Paleozoic-involving thrust array in the central Sierras Interiores (South Pyrenean Zone, Central Pyrenees): regional implications
- A424 EGU2012-5422
L. Rodriguez, J. Cuevas, and J. M. Tubía
Structure of the Anayet Permian basin (Axial Zone, Central Pyrenees)
- A425 EGU2012-8223
C. García-Lasanta, B. Oliva-Urcia, T. Román-Berdiel, A. Casas-Sainz, I. Gil-Peña, Y. Sánchez-Moya, and A. Sopeña
Tectonically controlled magnetic fabrics in the Iberian Triassic basin
- A426 EGU2012-10979
M.R. Barchi, G. Lena, W. Alvarez, F. Felici, and A. Lupattelli
Mesoscopic S-C fabrics in shallow fault zones: a case history from the Umbria-Marche Apennines (Central Italy)
- A427 EGU2012-11423
F. Bucci, R. Novellino, I. Adurno, E. Gueguen, F. Guzzetti, M. Cardinali, E. Tavarnelli, P. Guglielmi, and G. Prosser
Low Angle Extensional Faults in a Thrusting/Compressive Regime
- A428 EGU2012-7977
L. Gonzalez and **O.A. Pfiffner**
The Central Andes of Peru: Structure and Evolution
- A429 EGU2012-10923
J.M. Tubía, F.D. Hongn, A. Aranguren, and N. Vegas
Inversion tectonics in the pre-andean basement of the Sierra de Cachi (Salta, Argentina)

- A430 EGU2012-4811
O. Bolle, H. Diot, J. Bascou, and B. Charlier
Anisotropy of magnetic susceptibility in the giant Lac Tio hemo-ilmenite ore body (Quebec Province, Canada): source and geological implications
- A431 EGU2012-10272
T. Torvela, J. Moreau, R.W.H. Butler, A. Korja, and P. Heikkinen
Toward detailed structural analysis of seismic reflection data from crystalline basement: the seismic attribute approach
- A432 EGU2012-3518
G. Berberich, D. Klimetzek, C. Wöhler, and A. Grumpe
Statistical Correlation between Red Wood Ant Sites and Neotectonic Strike-Slip Faults
- A433 EGU2012-9123
D. Herwartz, T.J. Nagel, S. Sandmann, A. Vitale Brovarone, S. Rexroth, Y. Rojas-Agramonte, N. Froitzheim, A. Kröner, S.G. Skublov, and C. Münker
Traditional applications and novel approaches in Lu-Hf geochronology
- A434 EGU2012-11615
M. Leitner, S. Tschürtz, G. Kirchengast, H. Kranzelbinder, B. Prügger, R.A. Krause, M. Kalliokoski, and E. Thórhallsdóttir
Greenland Expeditions by Alfred Wegener - A photographic window to past

Friday, 27 April

SM1.1 – Open Session on Seismology (including Beno Gutenberg Medal Lecture) – Posters

Convener: C.M. Krawczyk | Co-Conveners: M. Cocco

Hall X/Y | Display Time 08:00–17:00

Author in Attendance: 10:30–12:00

Chairperson: Massimo Cocco and Charlotte Krawczyk

- XY492 EGU2012-3890
M. Salmon and B. Kennett
AuSREM - Australian Seismological Reference Earth Model
- XY493 EGU2012-837
C. Buffoni, N. C. Sabbione, M. Schimmel, and M. L. Rosa
Teleseismic receiver function analysis in Tierra del Fuego Island: an estimation of crustal thickness and Vp/Vs velocity ratio
- XY494 EGU2012-1281
B. Heit, X. Yuan, W. Geissler, B. Lushetile, M. Weber, and W. Jokat
The WALPASS - Walvis Ridge Passive-Source Seismic Experiment in Namibia
- XY495 EGU2012-7064
M Craiu, A Craiu, Gh Marmureanu, and M Radulian
Reevaluation of earthquakes magnitude for the main seismic zones of Romania
- XY496 EGU2012-4389
D. Tataru, G. Stuart, and **B. Grecu**
Revealing the crust of western Romania using CCP techniques
- XY497 EGU2012-4608
L. A. Ardeleanu
Estimation of focal mechanism of low magnitude crustal earthquakes from Vrancea region
- XY498 EGU2012-8015
M. Rogozea, Gh. Marmureanu, and M Radulian
Reevaluation of the macroseismic effects of the 23 January 1838 Vrancea earthquake
- XY499 EGU2012-7947
J. Trojanowski, B. Plesiewicz, J. Wiszniowski, J. Suchcicki, and A. Tokarz
Seismic monitoring of Poland - temporary seismic project - first results
- XY500 EGU2012-2682
R. Gazdova, T. Fischer, P. Kolinsky, and O. Novotny
Tidal analysis of groundwater level variations and CO2 flow fluctuation in the seismically active region of western Bohemia
- XY501 EGU2012-5699
M. Hrdliřková and **T. Fischer**
Earthquake swarms in West Bohemia / Vogtland: at present and one century ago
- XY502 EGU2012-7915
S. Barani, D. Spallarossa, D. Scafidi, G. Ferretti, R. De Ferrari, and **M. Pasta**
Analysis of the October-November 2010 seismic swarm in the Sampeyre area (Piedmont, Italy)
- XY503 EGU2012-5485
M. Godano, A. Deschamps, S. Lambotte, H. Lyon-Caen, and P. Bernard
Focal mechanisms of earthquake multiplets in the western part of the Corinth rift (Greece)
- XY504 EGU2012-12532
S. Lambotte, H. Lyon-Caen, P. Bernard, and A. Deschamps
Multiplet analysis and microseismicity structure in the Western part of Corinth Rift (Greece) from 2000 to 2007
- XY505 EGU2012-7990
A. Zunino, G. Ferretti, D. Scafidi, S. Barani, M. Pasta, and D. Spallarossa
Microseisms and sea wave height in the Ligurian Sea: a preliminary analysis.
- XY506 EGU2012-2621
E. Buforn, C. Pro, M. Carranza, A. Zollo, A. Pazos, L. Lozano, and F. Carrilho
Estimation of Pd y İ,c parameters for earthquakes of the SW Iberia (S. Vicente Cape)
- XY507 EGU2012-10151
C. Cancela Pinto, **J. Carvalho**, S. Vilanova, and J. Borges
Estimating site effects for seismic hazard assessment in Portugal using shear wave and geotechnical data
- XY508 EGU2012-6757
M. Y. Walling, K. Megawati, and C. Zhu
ESTIMATION OF Vs30 SOIL PROFILE STRUCTURE OF SINGAPORE FROM MICROTREMOR RECORDS

- XY509 EGU2012-8093
L. W. Bjerrum, M. B. Sørensen, T. Lutro, L. Ottemöller, C. Sari, and K. Atakan
 Predicting Surface Ground Motions during Earthquakes near Izmir, Turkey - H/V Measurements and Soil Response Modeling
- XY510 EGU2012-9969
H.-C. Huang and C.-Y. Lin
 Strong Ground Motion Simulation and Source Modeling of the December 16, 1993 Tapu Earthquake, Taiwan, Using Empirical Green's Function Method
- XY511 EGU2012-6238
Q. Rodriguez-Perez, L. Ottemöller, and M. Raeesi
 Study of two intermediate earthquakes in the Guerrero seismic gap, Mexico.
- XY512 EGU2012-3951
G. Yi, F. Long, and Z. Zhang
 Seismogenic structures in Wenchuan aftershock region from focal mechanism solutions
- XY513 EGU2012-11630
F. Waldhauser, J.D. Zechar, D.P. Schaff, and P. Friberg
 Real-Time Double-Difference Location and Monitoring of Fine-Scale Seismogenic Properties, with Application to Northern California
- XY514 EGU2012-8453
M. Vallée and E.M. Dunham
 Observation of far-field Mach waves generated by the 2001 Kokoxili supershear earthquake
- XY515 EGU2012-2186
 C.-H. Chang, **Y.-F. Chang**, P.-Y. Tseng, and C.-M. Lin
 Potential Pitfalls in Seismic Interpretation for Transversely Isotropic Media - A Physical Model Study
- XY516 EGU2012-4104
J. Jansky, V. Plicka, and J. Zahradnik
 Re-evaluating possibilities of the Source Scanning Algorithm
- XY517 EGU2012-4002
K. Emoto, H. Sato, and T. Nishimura
 Stochastic synthesis of vector wave envelopes in layered random media based on the improved Markov approximation
- XY518 EGU2012-4620
L. De Siena, E. Del Pezzo, C. Thomas, A. Curtis, and L. Margerin
 Seismic envelope reconstruction in a volcanic caldera: theory, data, and modeling.
- XY519 EGU2012-954
M. K. Sayankina, A. V. Smaglichenko, and A. A. Lukianitsa
 Modification of Gaussian elimination to identify hydrocarbon reservoir (the thin-bed model reconstruction)

GD5.1/GMPV6.2/SM2.2/TS6.5 – Subduction dynamics from surface to deep mantle (co-organized) – Posters

Convener: S. Buiter | Co-Conveners: F. Funiciello, J. van Hunen

Hall XL | Display Time 08:00–17:00

Author in Attendance: 10:30–12:00

Chairperson: Jeroen van Hunen, Francesca Funiciello and Susanne Buiter

- XL53 EGU2012-1680
C. Schmelzbach, J. Kummerow, P. Wigger, A. Reshetnikov, and S. A. Shapiro
 Microseismic reflection imaging of the Precordillera crust, forearc of the North-Chilean subduction
- XL54 EGU2012-2447
I. Wölbern and G. Rüpker
 Seismic anisotropy of the Central Andean subduction zone derived from shear-wave splitting
- XL55 EGU2012-6017
W Rabbel, Y Dzierma, M Thorwart, T Wunderlich, I Koulakov, K Hoernle, and H. Wehrmann
 Seismic evidence of a link between subducted oceanic faults and volcanism: A case study from South Central Chile
- XL56 EGU2012-2960
N.W. Bloch, J. Kummerow, P. Wigger, S.A. Shapiro, and P. Salazar
 Crustal and Slab Related Seismicity in the Northern Chilean Coastal Cordillera
- XL57 EGU2012-13761
M. Contreras, A. Tassara, R. Araya, and K. Bataille
 Interseismic strain accumulation at the Mw8.8 2010 Maule earthquake by means of finite element modeling
- XL58 EGU2012-2291
F. Funiciello, F. Corbi, A. Heuret, Y. van Dinther, D. Presti, L. Sandri, W. Marzocchi, M. Moroni, T. Gerya, M. May, L. Dalguer, C. Piromallo, S. Lallemand, C.P. Conrad, V. Acocella, G. Ranalli, and C. Faccenna
 Five years of EURYI project on subduction and interplate seismicity: What have we learnt?

- XL59 EGU2012-2286
W. Marzocchi, L. Sandri, A. Heuret, and F. Funiciello
On the frequency-magnitude distribution of subduction interplate earthquakes
- XL60 EGU2012-2281
A. Heuret, C.P. Conrad, F. Funiciello, S. Lallemand, and L. Sandri
Relation between subduction megathrust earthquakes, trench sediment thickness and upper plate strain
- XL61 EGU2012-2277
D. Presti, A. Heuret, F. Funiciello, and C. Piromallo
A new database on subduction seismicity at the global scale
- XL62 EGU2012-8088
Y. van Dinther, T. Gerya, **F. Corbi**, F. Funiciello, P. M. Mai, and L. A. Dalguer
The seismic cycle at subduction thrusts: benchmarking geodynamic numerical simulations and analogue models
- XL63 EGU2012-6675
M. Faccenda and F.A. Capitanio
Synthetic SKS splitting at subduction zones: reconciling observations with mantle flow
- XL64 EGU2012-2090
A. Simakin
Numerical modeling of the subduction initiation after accretion of oceanic island.
- XL65 EGU2012-3384
G. Lu, B. Kaus, L. Zhao, and T. Zheng
On the initiation of subduction by plume-induced compression: a numerical study
- XL66 EGU2012-2576
M. Yoshida and F. Tajima
3D numerical modeling of subduction dynamics: plate stagnation and segmentation, and crustal advection in the mantle transition zone
- XL67 EGU2012-2453
T. Duretz, S.M Schmalholz, and T.V. Gerya
Dynamics of slab detachment
- XL68 EGU2012-3525
B. Hillebrand, T. Geenen, W. Spakman, and A.P. van den Berg
Using the level set method in slab detachment modeling
- XL69 EGU2012-7430
S. Buiter and S. Ellis
Testing the role of rheology with simple subduction models
- XL70 EGU2012-13259
L. Fourel, G. Morra, and S. Goes
Visco-elasto-plastic rheology effects on free subduction dynamics
- XL71 EGU2012-9967
R. Hassani, **M. Gerbault**, E. Tric, and G. Gibert
Cyclic arc regimes over subduction zones at constant plate motion, due to folding over the 660 km transition zone. Insight from numerical models.
- XL72 EGU2012-10396
C. Malatesta, T. Gerya, M. Scambelluri, L. Crispini, L. Federico, and G. Capponi
3D Numerical simulations of oblique subduction
- XL73 EGU2012-4607
St. Zeumann, R. Sharma, T. Jahr, and G. Jentzsch
New 3D Finite Element models of the central Andes using realistic geometry
- XL74 EGU2012-10568
C. Malatesta, T. Gerya, L. Crispini, L. Federico, M. Scambelluri, and G. Capponi
The exhumation of an HP ophiolitic massif (Voltri Massif, Western Alps): insight from 3D numerical models
- XL75 EGU2012-8014
M. Roda, M. I. Spalla, and A. M. Marotta
Integration of natural data within a numerical model of ablative subduction: A possible interpretation for the Alpine dynamics of the Austroalpine crust.
- XL76 EGU2012-7611
B. von Niederhausern, M. Engi, and D. Rubatto
Subduction of continental crust in the Sesia Zone: Constraints on dynamics from in-situ U-Th-Pb dating of accessory phases (Western Alps, Italy)
- XL77 EGU2012-3623
A. Kozhurin and T. Pinegina
From arc-normal extension above the subduction zone to arc-normal contraction just beyond its lateral edge: the case of the Kamchatka-Aleutian junction

- XL78 EGU2012-5640
B. Guillaume, F. Funiciello, C. Faccenna, L. Husson, and L.H. Royden
 Deformation and topography above the lateral transition from continental to oceanic subduction in three-dimensional laboratory models: what can we learn on the Hellenic subduction?
- XL79 EGU2012-6546
S.W Luth, E. Willingshofer, and D. Sokoutis
 Orogenic Wedges and Subduction in Analogue Models: Expressions of Rheology Induced Plate Decoupling
- XL80 EGU2012-6490
P. Agard, X. Zuo, F. Funiciello, N. Bellahsen, C. Faccenna, and D. Savva
 Analog modelling of obduction processes
- XL81 EGU2012-5999
E. Amiguet, B. Reynard, R. Caracas, B. Van De Moortèle, N. Hilaret, and Y. Wang
 Creep of phyllosilicates at the onset of plate tectonics
- XL82 EGU2012-12506
A. Shulgin, H. Kopp, D. Klaeschen, C. Papenberg, F. Tilmann, E.R. Flueh, D. Franke, U. Barckhausen, and A. Krabbenhoft
 Sunda Subduction Zone: What causes differences in the 2004 and 2005 Sumatra earthquakes ruptures?
- XL83 EGU2012-13257
T. Knight, C. Peirce, A. B. Watts, W. Stratford, I. Grevemeyer, M. Paulatto, D. Bassett, J. Hunter, and L. Kalnins
 Louisville Ridge subduction at the Tonga-Kermadec trench: preliminary models to compare pre- and post collision zone crustal velocity structure.
- XL84 EGU2012-6643
F. Martinez, K. A. Kelley, and R. J. Stern
 Creation and Deformation of Hydrous Lithosphere at the Southern Mariana Margin
- XL85 EGU2012-6863
T. Iwasaki, E. Kurashimo, T. Iidaka, R. Arai, A. Kato, H. Sato, T. Ito, A. Nakanishi, S. Kodaira, Y. Kaneda, and K. Ito
 Lateral Structural Variation of the Downgoing Philippine Sea Plate beneath the SW Japan Arc
- XL86 EGU2012-2199
B.-Y. Kuo
 Rapid rotation of shear-wave splitting at the edge of the Ryukyu subduction zone and its dynamic implications
- XL87 EGU2012-1272
W.-B. Cheng, S. -K. Hsu, and C. -H Chang
 Tomography of subduction zone in southern Taiwan: an implication of subducting seamount beneath the forearc
- XL88 EGU2012-4052
Yi-Wei Lin, Cheng-Chien Peng, and Ban-Yuan Kuo
 Structure of the subduction zone south of Taiwan constrained by OBS data
- XL89 EGU2012-1138
E. Király, I. Bianchi, and G. Bokelmann
 Seismic anisotropy in the south western pacific region from shear wave splitting
- XL90 EGU2012-167
M. Hata, N. Oshiman, R. Yoshimura, Y. Tanaka, and M. Uyeshima
 Imaging of Upwelling Fluids and Partial Melt in the Subduction Zone with 3D Regional Electrical Resistivity Structure by the Network-MT Data
- XL91 EGU2012-2562
I. Chuvashova and S. Rasskazov
 Propagating pull-down effects of triangular paleoslab fragments at a convergent zone: magmatic evolution beneath Central Mongolia in the past 90 Ma
- XL92 EGU2012-2529
M.F. Osmaston
 Is subduction really in the plate tectonics driving seat, or do two other global mechanisms do the driving? A review in the 'deep-keeled cratons' frame for global dynamics

GD3.5/SM2.7/TS10.8 – The Circum-Arctic region: Interplays between plate motions, mantle dynamics and the evolution of basins, margins and microcontinents (co-organized) – Posters

Convener: C. Gaina | Co-Conveners: R. D. Müller, J. Knies, K. Sigloch

Hall XL | Display Time 08:00–17:00

Author in Attendance: 08:30–10:00

Chairperson: Karin Sigloch

- XL35 EGU2012-6896
G. Shephard, R.D. Müller, and C. Heine
Testing the kinematics and timing of the opening of the Amerasia Basin through a new coupled plate kinematic and mantle convection model
- XL36 EGU2012-1561
K. Sigloch
Circum-Arctic mantle structure from global P-wave tomography - how consistent is it with plate-tectonic reconstructions?
- XL37 EGU2012-7228
S. Shokalsky, A. Morozov, O. Petrov, B. Belyatsky, P. Rekant, S. Shevchenko, and S. Sergeev
Detrital zircons of deep-sea sediments of the Arctic ocean - key to the understanding of High Polar Arctic tectonics
- XL38 EGU2012-11069
C. Tegner, M. Storey, P. M. Holm, S. B. Thorarinsson, X. Zhao, S. Tappe, L. Heaman, and M. F. Knudsen
Magmatism and Eureka deformation in the High Arctic Large Igneous Province: Age constraints from North Greenland
- XL39 EGU2012-7490
S. Suckro, K. Gohl, T. Funck, I. Heyde, A. Ehrhardt, B. Schreckenberger, and V. Damm
The evolution of Davis Strait, a polar gateway - seismic data and tectonic modelling
- XL40 EGU2012-6077
V. Damm, M. Block, K. Berglar, A. Ehrhardt, I. Heyde, M. Schnabel, B. Schreckenberger, **T. Altenbernd**, and S. Suckro
Crustal structure of the West Greenland margin in North Baffin Bay
- XL41 EGU2012-2826
P. Guarnieri
Late Cretaceous-Paleocene strike-slip faults along the East Greenland margin (63°N to 75°N): constraints for the North East Atlantic opening
- XL42 EGU2012-1621
M.F. Osmaston
Recognition of Intermediate Crust (IC), its construction and its distinctive epeirogenic behaviour: an exciting new tool for plate kinematic analysis (PKA) of the Arctic margins and western Siberia
- XL43 EGU2012-8197
S. Malysheva, V. Vasilyev, V. Verzhbitsky, V. Ananyev, R. Murzin, D. Komissarov, N. Kosenkova, and Yu. Roslov
Petroleum Systems of South Kara Basin: 3D stratigraphic simulation and basin modeling results

COFFEE BREAK

Hall XL | Display Time 08:00–17:00

Author in Attendance: 10:30–12:00

Chairperson: Jochen Knies

- XL44 EGU2012-5536
D. Franke, K. Piepjohn, C. Gaedicke, C. Brandes, N. Sobolev, and B. Mouly
On- Offshore correlation around the New Siberian Islands, Laptev and East Siberian Seas, Russian Arctic
- XL45 EGU2012-8507
C. Brandes and K. Piepjohn
Structural evolution and paleostress pattern of the New Siberian Islands and De Long Islands, NE Russia
- XL46 EGU2012-5026
C. Gaina and T. H. Torsvik
Relative and Absolute Plate Motions, Mantle Plumes and Volcanism in the Arctic region
- XL47 EGU2012-7819
K. Piepjohn, C. Brandes, C. Gaedicke, D. Franke, S. Mrugalla, N. Sobolev, and T. Tolmacheva
The tectonic evolution of the New Siberian Islands
- XL48 EGU2012-6240
K. brumley, E.L. Miller, L.A. Mayer, J. Wooden, and M. Grove
U-Pb zircon geochronology of Caledonian age orthogneisses dredged from the Chukchi Borderland, Arctic Ocean.
- XL49 EGU2012-2322
M.V. Luchitskaya, S.D. Sokolov, and A.V. Moiseev
Stages of Late Mesozoic granitoid magmatism of Chukotka (NE Russia)
- XL50 EGU2012-11876
E.S. Gottlieb, V.L. Pease, E.L. Miller, and V.V. Akinin
U-Pb zircon ages of Neoproterozoic granitoid magmatism on the Arctic coast of Chukotka and Wrangel Island

- XL51 EGU2012-3876
V.V. Akinin, E.L. Miller, E. Gottlieb, and G. Polzunenkov
 Geochronology and geochemistry of Cretaceous magmatic rocks of Arctic Chukotka: An update of GEOCHRON2.0
- XL52 EGU2012-6195
G.V. Ledneva, B.A. Bazylev, D. Kuzmin, A. Ishiwatari, N.N. Kononkova, and S.D. Sokolov
 Plutonic ultramafic-mafic complexes of the Vel'may terrane, eastern Chukotka (Russia): first petrological results and preliminary geodynamic interpretations

TS10.2/GD3.10/GMPV6.19/SM2.10 – Geodynamics of the westernmost Mediterranean and NW Africa (co-organized) – Orals

Convener: C. J. Garrido | Co-Conveners: G. Booth-Rea, J. Galindo-Zaldivar, A. Chalouan, R. Carbonell, A. Levander, C. R. Ranero, V. Sallares, R. de Franco, N. Zitellini

Room: 29

Chairperson: C.J. Garrido & R. Carbonell

- 08:30–08:45 EGU2012-8716
P. Ayarza, R. Carbonell, A. Teixell, A. Kchikach, M. Harnafi, D. Marti, I. Palomeras, A. Levander, J. Gallart, M.L. Arbolea, M. Charroud, and M. Amrahr
 Constrains on the topography of the Moroccan High Atlas: Contribution of the SIMA (Seismic Imaging across the Moroccan Atlas) project
- 08:45–09:00 EGU2012-11915
D. Kiyani, A. Jones, J. Ledo, J. Fulla, A. Sinischalchi, G. Romano, J. Campaña and the TopoMed MT Team
 3D structures of the crust and upper mantle in Atlas Mountains of Morocco from magnetotelluric data
- 09:00–09:15 EGU2012-12969
E Gracia, C. R. Ranero, I. Grevemeryer, and T h e WestMed, TopoMed, and Geomargen-1 cruise parties
 Seismic Images and Wide-angle Velocity constrains of the structure and geodynamic origin of the Gibraltar Arc system: A geological interpretation of the Gulf of Cadiz imbricated wedge, the western and eastern Alboran basins, and the South-Balearic basin.
- 09:15–09:30 EGU2012-11961
I. Palomeras, S. Thurner, A. Levander, E. Humphreys, M.S. Miller, R. Carbonell, and J. Gallart
 PICASSO: Lithosphere Structure in the Western Mediterranean from Ps Receiver Functions and Rayleigh Wave Tomography
- 09:30–09:45 EGU2012-10197
X. Garcia, R. Evans, J. Elsenbeck, and M. Jegen
 Imaging the Alboran Domain from a marine MT survey
- 09:45–10:00 EGU2012-5538
J. Diaz Cusí, J. Gallart and the TopoIberia Seismic Working Group Team
 Progress on the seismic anisotropy knowledge beneath Iberia and northern Morocco: the contribution of the second TopoIberia-Iberarray deployment

COFFEE BREAK

Chairperson: G. Booth-Rea & C. Ranero

- 10:30–10:45 EGU2012-14170
D. Garcia-Castellanos
 Tectonic uplift competing with erosion along the Betic-Rifean corridors: regulating the Messinian Salinity Crisis
- 10:45–11:00 EGU2012-12094
C. Gorini, E. d'Acremont, M. El Abbassi, D. Do Couto, S. Migeon, A. Ammar, F. Estrada, G. Ercilla, B. Alonso, J. Poort, and H. Jabour
 Giant slide in the South Alboran margin: Upper Miocene margin inversion or Messinian sea level fall?
- 11:00–11:15 EGU2012-13977
J. Vergés and M. Fernández
 Tethys-Atlantic Interaction along the Iberia-Africa Plate Boundary: the Betic-Gibraltar-Rif System
- 11:15–11:30 EGU2012-7940
L. Le Pourhiet, D. Do Couto, R. Labayed, E. d'Acremont, J. Smitt, A. Ammar, H. Jabour, and C. Gorini
 Formation and deformation of the Alboran-Rif sytem? Insights from 3D thermo-mechanical modelling.

- 11:30–11:45 EGU2012-5185
G. Tango, R. de Franco, G. Caielli, G. Biella, G. Boniolo, A. Corsi, A. Morrone, A. Tento, and MEDOC group
 Wide angle reflection/Refraction seismic data processing and imaging of HG-MEDOC line in southern Tyrrhenian sea: evidences of a transitional Moho boundary?
- 11:45–12:00 EGU2012-13681
M.G. Vendrell, C.R. Ranero, V. Sallarès, M. Prada, S. Moeller, I. Grevenmeyer, and N. Zitellini
 The tectonic and sedimentary structures of the Tyrrhenian rifted basin from multichannel seismic images

SM3.10/EMRP2.10/ERE5.5 – Seismo-electromagnetic conversions: observations, theory and modelling (co-organized) – Orals

Convener: J. Holzhauer | Co-Conveners: E. Slob, M. Dietrich

Room: 2

Chairperson: n.n.

- 08:30–08:45 EGU2012-5255
S. Warden, S. Garambois, P. Sailhac, L. Jouniaux, M. Bano, and M. Dietrich
 Curvelet-based seismoelectric data processing
- 08:45–09:00 EGU2012-6725
H. Hu, W. Guan, and W. Zhao
 Theoretical studies of permeability inversion from seismoelectric logs
- 09:00–09:15 EGU2012-13450
P. Sammonds, D. Eccles, and P. Meredith
 Influence of elevated temperature and pore fluid chemistry on electrokinetic signals generated during the deformation of sandstone
- 09:15–09:30 EGU2012-1648
B. Kröger and A. Kemna
 Characteristics of seismoelectric interface responses at dipping boundaries
- 09:30–09:45 EGU2012-10011
N. Grobde, J.W. Thorbecke, and E.C. Slob
 ESSEMOD - Electroseismic and Seismoelectric Flux-Normalized Modeling for Horizontally Layered, Radially Symmetric Configurations
- 09:45–10:00 EGU2012-286
F. I. Zyserman, P. M. Gauzellino, and J. E. Santos
 Electroseismics as a methane hydrate prospecting tool

SM3.10/EMRP2.10/ERE5.5 – Seismo-electromagnetic conversions: observations, theory and modelling (co-organized) – Posters

Convener: J. Holzhauer | Co-Conveners: E. Slob, M. Dietrich

Hall X/Y | Display Time 08:00–17:00

Author in Attendance: 10:30–12:00

Chairperson: M. Dietrich & J. Holzhauer

- XY520 EGU2012-12652
V. Allègre, P. Sénéchal, C. Bordes, L. Jouniaux, and S. Warden
 On the use of a combined geophysical approach to estimate the seismoelectric amplitude dependence on water content
- XY521 EGU2012-12939
M. Dietrich, F. Delprat-Jannaud, and S. Garambois
 Transient electrokinetic response of finely layered, fluid-filled porous media
- XY522 EGU2012-6770
C. Yin, J. Wang, A. Qiu, X. Liu, and H. Hu
 A Circuit Model for the Measurement of the Streaming Potential in a Rock Sample
- XY523 EGU2012-8193
 P. Sénéchal and **C. Bordes**
 On the relevance of the acquisition configuration for seismoelectric recording
- XY524 EGU2012-7469
C. Bordes, P. Sénéchal, S. Garambois, J. Holzhauer, and D. Brito
 On the convenience of static and dynamic transfer functions in seismoelectric data: the role of permeability
- XY525 EGU2012-6792
 Z. Wang, **W. Guan**, Y. Gao, and H. Hu
 2-D FDTD computation of seismoelectric fields excited by an underground double couple in a horizontally layered formation

- XY526 EGU2012-13876
J. Holzhauer, T. Günther, and U. Yaramanci
 Consideration of the first Fresnel zone characterisation while investigating on seismoelectric interfacial conversions
- XY527 EGU2012-6253
J. Holzhauer, C. Bordes, F. Oppermann, D. Brito, and U. Yaramanci
 Impact of permeability on seismoelectric transfer function of P waves
- XY528 EGU2012-1676
B. Kröger and A. Kemna
 Anatomical and morphogenetic analysis of seismoelectric conversion patterns at geological units
- XY529 EGU2012-10636
N. Grobbe, F.C. Schoemaker, M.D. Schakel, S.A.L. de Ridder, E.C. Slob, and D.M.J. Smeulders
 Electrokinetic Fields and Waves: Theory, Experiments and Numerical Modeling
- XY530 EGU2012-3539
S. Park and N.H. Sung
 Induced Polarization Responses of the Specimen with Sulfide Ore Minerals

GD3.1/GM3.7/SM4.4/TS1.6 – Plate kinematics, mantle convection, paleogeography and sea level (co-organized) – Orals

Convener: R. D. Müller | Co-Conveners: H.-P. Bunge, J. Golonka, M. Seton, S. Brune, L. Quevedo, G. Helffrich, G. Laske, Y. Ricard

Room: 30

Chairperson: n.n.

- 08:30–08:45 EGU2012-9803
J. Braun, R. Moucha, A. M. Forte, A. B. G. Bush, D. B. Rowley, N. Insel, F. Guillocheau, S. Robin, and D. Rouby
 The Topographic evolution of the African continent, constraints from coupling deep mantle, climate and surface processes models
- 08:45–09:00 EGU2012-7986
R. D. Müller, N. Flament, and M. Gurnis
 The scale and time dependence of surface dynamic topography over the last 200 million years in the Atlantic and Indian ocean domains
- 09:00–09:15 EGU2012-1087
J.D. Paul, G.G. Roberts, and N. White
 Temporal and Spatial Evolution of Dynamic Support From River Profiles: A Framework for Madagascar and Africa
- 09:15–09:30 EGU2012-7936
X. Robert, P. Reinert, K.X. Whipple, R. Moucha, and A. Forte
 Dynamic uplift and erosion history of the Colorado Plateau: New insights from a SW-NE thermochronologic transect
- 09:30–09:45 EGU2012-11867
K. Czarnota, M. J. Hoggard, N. White, and J. Winterbourne
 Linking Observations of Dynamic Topography from Oceanic and Continental Realms around Australia
- 09:45–10:00 EGU2012-4578
 E. Artyushkov and **P. Chekhovich**
 Rapid paleodepth changes in epeiric Paleozoic basins as a consequence of crustal uplift and subsidence

COFFEE BREAK

Chairperson: n.n.

- 10:30–10:45 EGU2012-5572
L. Husson
 The dynamics of convergent boundaries over a convecting mantle
- 10:45–11:00 EGU2012-6181
C. Faccenna and T.W. Becker
 Mantle conveyor beneath the Tethyan collisional belt
- 11:00–11:15 EGU2012-4977
C. Gaina, T. H. Torsvik, C. Labails, D. van Hinsbergen, S. Werner, and S. Medvedev
 The African Plate: A history of oceanic crust accretion and subduction since the Jurassic

- 11:15–11:30 EGU2012-12689
S.C. Cande and **D.R. Stegman**
Surface expression of the Reunion Plumehead as witnessed by tectonics in the Indian Ocean
- 11:30–11:45 EGU2012-4084
R. Ramalho
The evolution of ocean island volcanoes in a stationary plate environment and its implications concerning hotspot dynamics
- 11:45–12:00 EGU2012-5745
N. M. Ribe
Inferring Properties of the Hawaiian Plume from the Hawaiian Swell

GD7.1/EMRP1.9/SM4.6 – Earth's core dynamics: Observations and models (co-organized) – Orals

Convener: R. Deguen | Co-Conveners: A. Fournier, V. Lesur

Room: 32

Chairperson: Alexandre Fournier

- 08:30–09:00 EGU2012-12609
D.S. Zimmerman, S.A. Triana, and D.P. Lathrop
Turbulence, Waves, Transport (and perhaps Dynamo) in Laboratory Model Cores
- 09:00–09:15 EGU2012-7109
H.-C. Nataf, A. Figueroa, N. Schaeffer, and D. Schmitt
On the role of boundary layer instabilities in core dynamics
- 09:15–09:30 EGU2012-2021
P. Hejda and M. Reshetnyak
Kinetic energy cascades in quasi-geostrophic convection
- 09:30–09:45 EGU2012-7813
C. Demetrescu, V. Dobrica, and C. Stefan
On the evolution of high-frequency ingredients of the secular variation and of their expression at core surface, as inferred from observatory data and main field models
- 09:45–10:00 EGU2012-6593
M. H. Heimpel and M. E. Evans
The inclination test of the geomagnetic field: Insights from numerical dynamo models

COFFEE BREAK

Chairperson: Vincent Lesur

- 10:30–11:00 EGU2012-3679
B. A. Buffett
Tidal dissipation and the strength of the Earth's internal magnetic field
- 11:00–11:15 EGU2012-6841
K.D. Aldridge, D.G. McMillan, and S. Mikkola
Modulation of Geomagnetic Intensity by Elliptic Instability in Earth's Core
- 11:15–11:30 EGU2012-5606
P. Livermore and R. Hollerbach
Reconciling westward drift and inner-core super-rotation in very low viscosity models of the geodynamo
- 11:30–11:45 EGU2012-3923
H. Tkalcic, M. Young, T. Bodin, and M. Sambridge
Observations of Shuffling Rotation of the Earth's Inner Core and its Time Correlation With Geomagnetic Jerks
- 11:45–12:00 EGU2012-13202
R. Caracas and M. Verstraete
The light elements of the Earth's inner core

GD7.1/EMRP1.9/SM4.6 – Earth's core dynamics: Observations and models (co-organized) – Posters

Convener: R. Deguen | Co-Conveners: A. Fournier, V. Lesur

Hall XL | Display Time 08:00–17:00

Author in Attendance: 13:30–15:00

Chairperson: Alexandre Fournier

- XL93 EGU2012-2050
M. Evonuk and **H. Samuel**
Simulating rotating fluid bodies: When is vorticity generation via density-stratification important?
- XL94 EGU2012-4301
A. Fournier and J. Aubert
Revisiting the use of hyperdiffusivities in numerical dynamo models
- XL95 EGU2012-6243
A. Fournier, J. Aubert, E. Thebault, and N. Schaeffer
A database of synthetic observations for geomagnetic data assimilation practice
- XL96 EGU2012-7972
C. Stefan, V. Dobrica, and C. Demetrescu
On the ~80-year variation of the core surface geomagnetic field. Derivation and characteristics
- XL97 EGU2012-11638
J. Baerenzung, M. Holschneider, and V. Lesur
Bayesian inversion of the flow at the Earth's Core Mantle Boundary
- XL98 EGU2012-4202
M. Manda, I. Panet, V. Lesur, O. de Viron, and M. Diamant
Satellite measurements: a window to the Earth's core

SM5.1/NH4.7 – Anthropogenic seismicity and seismic hazard: methods, observations and modeling (co-organized) – Orals

Convener: S. Cesca | Co-Conveners: B. Orlecka-Sikora, A. F. do Nascimento, S. Turuntaev, J. Suckale

Room: 27

Chairperson: S. Cesca

- 13:30–13:45 EGU2012-1911
V. Vavrycuk and D. Kuehn
Determination of source parameters and full moment tensors of seismic events in a very heterogeneous mining environment
- 13:45–14:00 EGU2012-1595
WA Lenhardt
Rockburst Mechanisms at Great Depth
- 14:00–14:15 EGU2012-12960
S. Wehling-Benatelli, D. Becker, M. Bischoff, W. Friederich, and T. Meier
Cluster analysis and relative relocation of mining-induced seismicity using HAMNET data
- 14:15–14:30 EGU2012-2775
A. T. Sen, S. Cesca, M. Bischoff, T. Meier, T. Dahm, and D. Kühn
Full Moment Tensor Inversion and Rupture Modelling of Mining Induced Seismicity
- 14:30–14:45 EGU2012-5314
B. Orlecka-Sikora, S. Cesca, S. Lasocki, L. Rudzinski, L. Lizurek, P. Wójcicki, P. Urban, and M. Kozłowska
Complex source mechanisms of mining-induced seismic events - implications for surface effects
- 14:45–15:00 EGU2012-452
T. Zmushko, S.B. Turuntaev, and V.I. Kulikov
The influence of the mining operation on the mine seismicity of Vorkuta coal deposit
- Chairperson: B. Orlecka-Sikora
- 15:30–15:45 EGU2012-2336
S. Lasocki and B. Orlecka-Sikora
Prediction of ground motion due to mining seismic activity: a general prediction scheme applied to assess impacts on tailings pond in Legnica-Głogów Copper District in Poland in the years 2011-2050
- 15:45–16:00 EGU2012-5350
A. Milev, R. Durrheim, M. Nakatani, Y. Yabe, H. Ogasawara, and M. Naoi
Seismic risk mitigation in deep level South African mines by state of the art underground monitoring - Joint South African and Japanese study
- 16:00–16:15 EGU2012-2938
S.B. Turuntaev, O.Yu. Melchaeva, and S.V. Vorobina
Discrimination between induced and natural seismicity by means of nonlinear analysis
- 16:15–16:30 EGU2012-12435
D. Becker, D. Kaiser, S. Wehling-Benatelli, M. Bischoff, and T. Dahm
Frequency Magnitude Distribution of induced microseismicity - Lessons learned from the mining environment

- 16:30–16:45 EGU2012-11436
C. Dinske, F. Wenzel, and S. A. Shapiro
 Characterisation of the Seismotectonic State of Reservoir Locations Using the Magnitude Distribution of Earthquakes
- 16:45–17:00 EGU2012-5939
B. Nunes, A. do Nascimento, J. Ferreira, and F. Bezerra
 Reservoir-induced seismicity at Castanhao reservoir, NE Brazil

SM5.2/ERE5.6 – Induced Seismicity: Theory and Observation (co-organized) – Orals

Conveners: J. C. Groos, P. Jousset | Co-Conveners: G. Kwiitek, M. Bohnhoff, J.R.R. Ritter, R. Gritto

Room: 27

Chairperson: P. Jousset

- 08:30–08:45 EGU2012-2235
G. Kwiitek, F. Bulut, M. Bohnhoff, and G. Dresen
 High-resolution analysis of seismicity induced at Berlín geothermal field, El Salvador
- 08:45–09:00 EGU2012-11332
K. Ágústsson and Ó. Flóvenz
 Induced seismicity during circulation loss in geothermal drilling at Hengill, Iceland
- 09:00–09:15 EGU2012-12584
J. Albaric, N. Langet, M. Hasting, V. Oye, I. Lecomte, M. Messeiller, K. Iranpour, P. Reid, and E.M. Llanos
 Induced seismicity at the Paralana Enhanced Geothermal System, South Australia
- 09:15–09:30 EGU2012-2830
 N. Deichmann, **T. Kraft**, and K.F. Evans
 Mapping of faults activated by the stimulation of the Basel enhanced geothermal system
- 09:30–09:45 EGU2012-13298
D. Kraaijpoel, D. Nieuwland, B. Wassing, and B. Dost
 Induced seismicity at an underground gas storage facility in the Netherlands
- 09:45–10:00 EGU2012-855
P. Blascheck, M. Häge, and M. Joswig
 Monitoring hydrofrac-induced seismicity by surface arrays - the DHM-Project Basel case study

COFFEE BREAK

Chairperson: J. Groos

- 10:30–10:45 EGU2012-153
 P. Jousset and **J. Rohmer**
 Evidence for remotely triggered micro-earthquakes during salt cavern collapse
- 10:45–11:00 EGU2012-2758
 K. F. Evans, **A. S. Zappone**, T. Kraft, N. Deichmann, and F. Moia
 A survey of the induced seismic responses to fluid injection in geothermal and CO2 reservoirs in Europe
- 11:00–11:15 EGU2012-354
C. Meller, Th. Kohl, and E. Gaucher
 Estimation of the failure probability during EGS stimulation based on borehole data
- 11:15–11:30 EGU2012-4473
B. Derode, F. Cappa, and Y. Guglielmi
 Seismicity triggered by stress transfer from a fluid injection-induced fracture activation
- 11:30–11:45 EGU2012-7483
V. Gischig, B. P. Goertz-Allmann, C.E. Bachmann, and S. Wiemer
 Effect of non-linear fluid pressure diffusion on modeling induced seismicity during reservoir stimulation
- 11:45–12:00 EGU2012-10944
S. Murphy, G. O'Brien, C. Bean, J. McCloskey, and S. Nalbant
 Seismicity and fluid injections: numerical modelling of fault activation

