
EGU 2008 Meeting Programme

Seismology

Monday

SM1 Open session on seismology

Convener: Carbonell, R.
Co-Convener(s): Thybo, H.
Lecture Room 34
Chairperson: N.N.

8:30–8:45; EGU2008-A-00141; SM1-1MO1O-001
Hassoup, H.

Induced seismicity at lake Aswan reservoir, Egypt

8:45–9:00; EGU2008-A-03942; SM1-1MO1O-002
s. Hallier, s. H.; e. Chaljub, e. C.; m. Bouchon, m. B.; h. Sekiguchi, h. S.
Parametric study of the basin-edge effect, acting up to the Hyogo-Ken Nanbu earthquake.

9:00–9:15; EGU2008-A-06589; SM1-1MO1O-003
Beldjoudi, H.; Guemache, M. A.; Kherroubi, A.; Semmane, F.; Yelles-Chaouche, A.; Djellit, H.; Haned, A.
The Laalam (Bejaia, north-east Algeria) moderate earthquake (Mw = 5.3) on March 20th, 2006. Macro seismic effects, Seismology and Seismotectonic implications

9:15–9:30; EGU2008-A-11738; SM1-1MO1O-004
Ottemoller, L.; **Baptie, B.;** Smith, N.
Tectonic implications of the 28 April 2007 MW4.0 Dover Straits earthquake

9:30–9:45; EGU2008-A-07052; SM1-1MO1O-005
Jiang, C.; Li, Y.; **Wu, Z.**
Repeating Events in North China Recorded by the Beijing Capital Digital Seismograph Network

9:45–10:00; EGU2008-A-07026; SM1-1MO1O-006
Polat, G.
Preliminary statistical analysis of Kandilli earthquake catalog

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2008-A-10381; SM1-1MO2O-001
Galanis, O.; Papazachos, C.; Scordilis, E.; Hatzidimitriou, P.
Location of earthquakes in Greece and the surrounding areas using absolute and differential arrival times and a 3D velocity model

10:45–11:00; EGU2008-A-02230; SM1-1MO2O-002
Oth, A.; Bindi, D.; Parolai, S.; Wenzel, F.
Spectral ground motion models for intermediate-depth Vrancea (Romania) earthquakes: new insights into attenuation characteristics, site effects and source spectra

11:00–11:15; EGU2008-A-11613; SM1-1MO2O-003
Madariaga, R.
Characterisation of long period strong motion for large earthquakes in Chile

11:15–11:30; EGU2008-A-05935; SM1-1MO2O-004
Demircioglu, M.B.; Sesetyan, K.; Harmandar, E.; Durukal, E.; Safak, E.; **Erdik, M.**
Modeling of Long-Period Ground Motion for Marmara Region

11:30–11:45; EGU2008-A-07266; SM1-1MO2O-005
Larsen, T.B.; Andersen, M.L.; Nettles, M.; Elosegui, P.; The SERMI and EGGCITE teams
Glacial earthquakes in Greenland

11:45–12:00; EGU2008-A-02214; SM1-1MO2O-006
Widmer-Schmidrig, R.; Kurrle, D.
New constraints on hum excitation mechanisms imposed by the discovery of the torsional hum

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2008-A-03361; SM1-1MO3O-001
Slunga, R.
Microearthquake Analysis, crustal Stresses, and Earthquakes

13:45–14:00; EGU2008-A-00027; SM1-1MO3O-002
Zibzibadze, M.; **Wyss, M.**
Delay times of worldwide teleseismic earthquake alerts

14:00–14:15; EGU2008-A-03597; SM1-1MO3O-003
Kimman, W.P.; Trampert, J.
Seismic Interferometry using Sources at the Surface only

14:15–14:30; EGU2008-A-04225; SM1-1MO3O-004
Andreotti, B.; Bonneau, L.; Clément, E.
Booming avalanches: a linear instability resulting from the coupling between shear bands and surface elastic waves

14:30–14:45; EGU2008-A-06838; SM1-1MO3O-005
Teisseyre, K.P.
Rotational seismic oscillations, analyzed in various frequency ranges

14:45–15:00; EGU2008-A-05459; SM1-1MO3O-006
Brossier, B.; Virieux, V.; Operto, O.
Parsimonious finite-volume frequency-domain method for 2D P-SV-wave modeling

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2008-A-07626; SM1-1MO4O-001
Hong, T.-K.; Menke, W.
Imaging regional heterogeneities from seismic coda of array records

15:45–16:00; EGU2008-A-07772; SM1-1MO4O-002
Skarlatoudis, A.A.; Papazachos, C.B.; Moczo, P.; Kristek, J.; Theodoulidis, N.
Ground motions simulations for the city of Thessaloniki, Greece, using a 3-D Finite-Difference wave propagation method

16:00–16:15; EGU2008-A-10210; SM1-1MO4O-003
Dolgikh, G.I.; Kholodkevich, E.D.; Navrotsky, V.V.
Spectral analysis of seismic waves in natural and artificial events in the Earth crust

16:15–16:30; EGU2008-A-10872; SM1-1MO4O-004
Nikolintaga, I.; Karakostas, V.; Papadimitriou, E.; Valianatos, F.
Seismotectonic study of the Hellenic subduction zone combining local microseismicity and relocation of ISC data

16:30–16:45; EGU2008-A-10601; SM1-1MO4O-005
Nielsen, S.; Taddeucci, J.; Vinciguerra, S.
Dynamic fracture in laboratory earthquakes

16:45–17:00; EGU2008-A-10555; SM1-1MO4O-006
Ventouzi, Ch.; Papazachos, C.; Papaioannou, Ch.
Estimating Earthquake Parameters Using Macroseismic Intensity Data: Application to Historical Events of the Aegean Area

17:00 END OF SESSION

SM1 Open session on seismology – Posters

Convener: Carbonell, R.
Co-Convener(s): Thybo, H.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 17:30–19:00

Poster Area Hall A
Chairperson: N.N.

A0420; EGU2008-A-09536; SM1-1MO5P-0420
Haeghe, M.; Joswig, M.
Increased detectability of microearthquakes in the swarm area of Nový Kostel (Western Bohemia)

A0421; EGU2008-A-10028; SM1-1MO5P-0421
Bischoff, M.; Bivour, I.; Kahlen, E.; Meier, T.; Alber, M.
Accurate localization of mining induced events in the Ruhr district, Germany

A0422; EGU2008-A-11177; SM1-1MO5P-0422
Barsch, R.; Käufel, P.; Wassermann, J.; Igel, H.
SeisHub – a web service for archiving, processing and simulation of multi-component data in seismology

A0423; EGU2008-A-10011; SM1-1MO5P-0423
Giardini, D.; **van Eck, T.;** Bossu, R.; Wiemer, S.; NERIES consortium,
Network of Research Institutes for Earthquake Seismology (NERIES)

A0424; EGU2008-A-09699; SM1-1MO5P-0424
van Eck, T.; Sleeman, R.; Dost, B.; Calje, L.; de Boer, P.; Trani, L.; Spinuso, A.; Assink, J.
ORFEUS: waveform data from European-Mediterranean broadband stations

A0425; EGU2008-A-09561; SM1-1MO5P-0425
Schmidt, A.; Friederich, W.; Meier, T.; the EGELADOS working group
Extraction of the Green's function from ambient noise in the Hellenic Subduction Zone using EGELADOS data

A0426; EGU2008-A-09438; SM1-1MO5P-0426
Gaite, B.; **Palomeras, I.;** Tomas, B.; Carbonell, R.
Geo DB: geophysical data available by web

A0427; EGU2008-A-08714; SM1-1MO5P-0427
Bianco, F.; Del Pezzo, E.; Badi, G.; Ibanez, J.
Depth dependent intrinsic and scattering attenuation in the lithospheric structure of the “Nuevo Cuyo” region, Andes, Argentina.

A0428; EGU2008-A-08635; SM1-1MO5P-0428
Imperator, W.; Aochi, H.; Suhadolc, P.; Douglas, J.; Costa, G.
When does strong-motion modelling using 1D models sufficiently well reproduce 2D-modelling results?

A0429; EGU2008-A-08615; SM1-1MO5P-0429
Endrun, B.; Ohrnberger, M.; Savvaidis, A.
On the consistency and repeatability of ambient vibration measurements for site characterization

A0430; EGU2008-A-08612; SM1-1MO5P-0430
Kummerow, J.; Salazar, P.; Wigger, P.; Asch, G.; Moser, D.
Microseismicity related to the West Fissure Fault System, Northern Chile

A0431; EGU2008-A-07190; SM1-1MO5P-0431
Wiszniewski, J.; Suchcicki, J.; Teisseyre, K.
The measurement of rotation and transversal strain from seismic waves P and S

A0432; EGU2008-A-08499; SM1-1MO5P-0432
Yelkenci, S.
Self-Similar properties of interevent times and distances of earthquakes around

A0433; EGU2008-A-07140; SM1-1MO5P-0433
Mutlu, A.; Karabulut, H.
Pn Travel Time Tomography of Turkey and Surrounding

A0434; EGU2008-A-07139; SM1-1MO5P-0434
Gallo, A.; **Costa, G.;** Suhadolc, P.; Valori, A.; Moratto, L.
Optimized automatic procedure for Mw estimation of regional seismic events

A0435; EGU2008-A-07104; SM1-1MO5P-0435
Aksari, D.;
Static and dynamic stress changes and earthquake triggering

A0436; EGU2008-A-07077; SM1-1MO5P-0436
Ergun, T.;
Predicting earthquakes by using preliminary Kandilli earthquake catalog

A0437; EGU2008-A-06453; SM1-1MO5P-0437
D'Anna, G.; Mangano, G.; Amato, A.; D'Alessandro, A.; Selvaggi, G.
INGV Broad Band Ocean Bottom Seismometers deployed in the Ionian Sea

A0438; EGU2008-A-06957; SM1-1MO5P-0438
Petrosino, S. ; De Siena, L.; Del Pezzo, E.
Re-calibration of the magnitude scales at Campi Flegrei, Italy, on the basis of measured path and site and transfer functions

A0439; EGU2008-A-06521; SM1-1MO5P-0439
Andersen, M. L.; Larsen, T. B.; Elósegui, P.; Dahl-Jensen, D.; Ahlstrøm, A.
Analysis of a regional seismic signal from a glacial earthquake at the Helheim glacier, Southeast Greenland

A0440; EGU2008-A-06320; SM1-1MO5P-0440
Buske, S.;
High-resolution seismic imaging for CO2 storage site assessment

A0441; EGU2008-A-04940; SM1-1MO5P-0441
Juhlin, C.; Giese, R.; Zinck-Jørgensen, K.; Cosma, C.; Kaze-meini, H.; Juhojuntti, N.; Lüth, S.; Norden, B.; Förster, A.; Yordkayhun, S.
Seismic monitoring at the CO2SINK project site, Ketzin, Germany: Past, present and future.

A0442; EGU2008-A-05278; SM1-1MO5P-0442
Wiejacz, P.; **Kotwicki, A.;** Rudziński, Ł.
Microearthquakes near Grybów, Poland, Western Carpathians

A0443; EGU2008-A-06303; SM1-1MO5P-0443
Erdik, M.; Alcik, H.; Mert, A.; Ozel, O.
Istanbul Earthquake Early Warning and Rapid Response System

A0444; EGU2008-A-03684; SM1-1MO5P-0444
Martinez-Arevalo, C.; **Musumeci, C.;** Patane, D
S-Wave Velocity Structure beneath Stromboli Volcano (Italy) from Receiver Function Inversion

A0445; EGU2008-A-02935; SM1-1MO5P-0445
Ocaña, E.; Stich, D.; Vidal, F.
Study of two seismic series in Moron de la Frontera (Seville, SW of Spain) in 2007

A0446; EGU2008-A-02385; SM1-1MO5P-0446
Kurrle, D.; Widmer-Schmidrig, R.
Discovery of the torsional hum of the Earth

A0447; EGU2008-A-00046; SM1-1MO5P-0447
Harutyunyan, A.
Formation of Oceanic Crust Geostructures and Relation Between Submarine landslides and Tsunamis

A0448; EGU2008-A-00576; SM1-1MO5P-0448
Gurung, G.; Schwab, F.; Bong Gon, J.
Proposed, Standardized Multimode Representation of 3-D Varying Structures Having Variable Surface Curvatures

A0449; EGU2008-A-01522; SM1-1MO5P-0449
Tsiapas, E.
Earthquakes - Volcanoes (Causes and Forecast)

A0450; EGU2008-A-02113; SM1-1MO5P-0450
Balan, S. F.; Apostol, B. F.; Bala, A.; Ritter, J.R.R.; Huber, G.
New Geotechnical Tests in the Bucharest Metropolitan Area

IS55 - SM4/TS17 Multidisciplinary Studies of the Continental Lithosphere (co-organized by SM & TS)

Convener: Jones, A.
Co-Convener(s): Kukkonen, I.
Lecture Room 8
Chairperson: KUKKONEN, I.

13:30–13:45; EGU2008-A-04652; IS55 - SM4/TS17-1MO3O-001
Plomerova, J.; Babuska, V.
Thickness of European seismic lithosphere and its large-scale fabric as a record of tectonic development of the continent

13:45–14:00; EGU2008-A-08560; IS55 - SM4/TS17-1MO3O-002
Jones, A.G.; Muller, M.R.; Evans, R.L.; Cole, P.; Ngwisanyi, T.; Hutchins, D.; Fourie, C.J.S; Evans, S.F.; Mountford, A.; Pettit, W.; THE SAMTEX TEAM
Southern African lithospheric geometries deduced from electromagnetic imaging: the SAMTEX project

14:00–14:15; EGU2008-A-02840; IS55 - SM4/TS17-1MO3O-003
Boonen, J; **Lebedev, S;** Trampert, J
Seismic structure of Precambrian lithosphere: New constraints from tomography and broadband surface-wave dispersion

14:15–14:30; EGU2008-A-09627; IS55 - SM4/TS17-1MO3O-004
Levander, A.; Miller, M.S.; Niu, F.; Zelt, C.A.; Bezada, M.; Magnani, M.B.; Clark, S.A.; Sobiesiak, M.; Pavlis, G.L.; Growdon, M.A.
Three-dimensional geometry of the Southeastern Caribbean: Results from multi-band seismic studies from BOLI-VAR/GEODINOS

14:30–14:45; EGU2008-A-07839; IS55 - SM4/TS17-1MO3O-005
Jones, A.G.; Fishwick, S.; THE SAMTEX TEAM
Comparison of seismic and electrical parameters for the lithosphere of Southern Africa

14:45–15:00; EGU2008-A-08509; IS55 - SM4/TS17-1MO3O-006
Wilde-Piorko, M.; PASSEQ Working Group
PASSEQ 2006-2008 (Passive Seismic Experiment in TESZ) - first results from receiver functions

15:00 COFFEE BREAK

Chairperson: JONES, A.G.

15:30–15:45; EGU2008-A-07798; IS55 - SM4/TS17-1MO4O-001
Bourlange, S.; Schnegg, P.-A.; Conin, M.
Electrical resistivity structure of the Remiremont-Epinal-Rambervillers migrating seismicity zone from magnetotelluric exploration

15:45–16:00; EGU2008-A-09173; IS55 - SM4/TS17-1MO4O-002
Mocanu, V.
Geodynamics of the SE Carpathians by GPS, seismic attenuation and seismic profiling

16:00–16:15; EGU2008-A-09008; IS55 - SM4/TS17-1MO4O-003
Kukkonen, I.T.; Kuusisto, M.; Lehtonen, M.; Peltonen, P.
Delamination of eclogitized lower crust: control on the crust-mantle boundary in the area of deep Moho in the Fennoscandian shield

16:15–16:30; EGU2008-A-11059; IS55 - SM4/TS17-1MO4O-004
Morgan, P.; O'Reilly, S. Y.
Determination of stable lithospheric upper mantle heat flow using xenoliths and its variation in lithospheres of different ages

16:30–16:45; EGU2008-A-10134; IS55 - SM4/TS17-1MO4O-005
Frederiksen, A.; Darbyshire, F.; Eaton, D.
Rheological and anisotropic boundaries within the lithosphere of the Superior Province, Canada

16:45–17:00; EGU2008-A-04942; IS55 - SM4/TS17-1MO4O-006
Kovalevsky, V.
Vibrational sounding of the continental lithosphere

17:00 END OF SESSION

IS55 - SM4/TS17 Multidisciplinary Studies of the Continental Lithosphere (co-organized by SM & TS) – Posters

Convener: Jones, A.
Co-Convener(s): Kukkonen, I.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
Poster Area Hall A
Chairperson: N.N.

A0451; EGU2008-A-01408; IS55 - SM4/TS17-1MO5P-0451
Virshylo, I.; Prodaivoda, G.
Estimation of mineral and chemical composition of lithosphere by seismic and gravimetric data

A0452; EGU2008-A-03228; IS55 - SM4/TS17-1MO5P-0452

O'Donnell, J.P.; Daly, E.; Tiberi, C.; Readman, P.W.; O'Reilly, B.M.; Hauser, F.

Joint inversion of seismic and gravity data onshore Ireland

A0453; EGU2008-A-03849; IS55 - SM4/TS17-1MO5P-0453

Stankiewicz, J.; Parsieglä, N.; Ryberg, T.; Gohl, K.; Weckmann, U.; Trumbull, R.; Weber, M.

Crustal structure of Africa's southern margin from geophysical experiments

A0454; EGU2008-A-06592; IS55 - SM4/TS17-1MO5P-0454

Zych-Kotwicka, A.; Perchua, E.; Malinowski, M.

Models for the 'cold' and 'hot' areas of the upper mantle beneath western North America.

A0455; EGU2008-A-07233; IS55 - SM4/TS17-1MO5P-0455

Stiller, M.; Richter, H.; Lippold, W.; DESIRE group, & A combined vibroseis/explosive near-vertical reflection profile across the Dead Sea Transform (project DESIRE)

A0456; EGU2008-A-07880; IS55 - SM4/TS17-1MO5P-0456

Piskarev, A.; Butsenko, V.; Kaminsky, V.; Poselov, V.

Geological construction of Mendeleev Ridge in the Arctic Ocean

A0457; EGU2008-A-08096; IS55 - SM4/TS17-1MO5P-0457

Balintoni, I.; Balica, C.; Ducea, M.; Chen, F.; Sabliovschi, V.

The meta-detrital zircons put an upper boundary for the age of the Romanian Carpathian pre-Alpine crystalline: a new group of North-Gondwanan Paleozoic terranes

A0458; EGU2008-A-08344; IS55 - SM4/TS17-1MO5P-0458

Majdanski, M.; Swieczak, M.; Grad, M.; Kozlovskaya, E.; **Wilde-Piorko, M.;** POLONAISE'97, W. G.; SUDETES 2003, W. G.

Multidisciplinary model of the crust and upper mantle in Trans-European Suture Zone in Poland

A0459; EGU2008-A-10850; IS55 - SM4/TS17-1MO5P-0459

Badenszki, E.; Daly, J.S.; Upton, B.G.J

Thermobarometry of metamorphic xenoliths from the Scottish Midland Valley: samples from the lower and middle crust?

A0460; EGU2008-A-11116; IS55 - SM4/TS17-1MO5P-0460

Hauser, F.; O'Reilly, B.M.; Readman, P.W.; **Daly, J.S.;** Van den Berg, R.

Constraints on crustal structure and composition within a continental suture zone from shear-wave wide-angle reflection data and lower crustal xenoliths: a case study from SW Ireland

SM5 Structure and composition from crust to core: Towards a European reference model – Posters

Convener: Trampert, J.

Co-Convener(s): Morelli, A.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 17:30–19:00

Poster Area Hall A

Chairperson: TRAMPERT, J.

A0461; EGU2008-A-02461; SM5-1MO5P-0461

Diaz, J.; Gallart, J.

Crustal structure beneath the Iberian Peninsula and surrounding waters: a new compilation of deep seismic sounding results.

A0462; EGU2008-A-05173; SM5-1MO5P-0462

Mancilla, F.; Dündar, S.; Kind, R.; Morales, J.; Li, X.; Julià, J.

A preliminary receiver function investigation of the crustal structure in the Iberia-Africa plate boundary

A0463; EGU2008-A-03162; SM5-1MO5P-0463

Raileanu, V.; Ionescu, C.; Tataru, D.

Crustal models in Romania based on seismic data

A0464; EGU2008-A-05149; SM5-1MO5P-0464

Grad, M.; Tiira, T.; ESC Moho Working Group

European plate Moho depth map

A0465; EGU2008-A-08320; SM5-1MO5P-0465

TONDI, R.; Morelli, A.; Schivardi, R.

Vp, Vs and density model of the Euro-Mediterranean mantle by Integrated Inversion of seismological and GRACE gravity data

A0466; EGU2008-A-08950; SM5-1MO5P-0466

Schivardi, R.; Carannante, S.; Morelli, A.

A comparison of tomographic P- and S-wave speed models of the broad European and Mediterranean area

A0467; EGU2008-A-08640; SM5-1MO5P-0467

Postpischl, L.; Morelli, A.

A standard XHTML format to describe earth models and improve their dissemination

SM9 Earthquake Source Rupture Models, Slip Distribution Studies, and Nucleation and Growth of Fault Systems

Convener: TAYMAZ, T.

Co-Convener(s): Rumker, G.

Lecture Room 8

Chairperson: TAYMAZ, T., AND RUMKER, G.

8:30–9:00; EGU2008-A-02367; SM9-1MO10-001

Das, S.; Robinson, D P

Identification of necessary conditions for supershear wave rupture speeds: the San Andreas fault. (solicited)

9:00–9:30; EGU2008-A-10909; SM9-1MO10-002

Madariaga, R.; Peyrat, S.; Campos, J.; Vilotte, J.P.

Why do large subduction earthquakes in South America break the downgoing slab?: example of the recent Tocopilla earthquake. (solicited)

9:30–9:45; EGU2008-A-04802; SM9-1MO10-003

Robinson, D P.; Biggs, J.; Pritchard, M.; Amelung, F

Rupture process of the August 15, 2007 Mw = 8.0 Peru earthquake

9:45–10:00; EGU2008-A-11137; SM9-1MO1O-004
Friederich, W.; Meier, T.
Inferring the time evolution of moment rate and moment magnitude of large earthquakes

10:00 COFFEE BREAK

Chairperson: TAYMAZ, T., AND RUMKER, G.

10:30–10:45; EGU2008-A-07568; SM9-1MO2O-001
Heimann, S.; Cesca, S.; Dahm, T.; Krueger, F.
Stable estimation of extended fault properties for medium-sized earthquakes using teleseismic waveform data

10:45–11:00; EGU2008-A-07747; SM9-1MO2O-002
Lutikov, A.
Simushire Earthquakes ($M_s=8.3$ and 8.1) of 2006 – 2007 in Mid Kuriles

11:00–11:15; EGU2008-A-06055; SM9-1MO2O-003
Dobrynina, A.A.
Source parameters of the Baikal rift system earthquakes

11:15–11:30; EGU2008-A-06163; SM9-1MO2O-004
de la Puente, J.; Ampuero, J.-P.; Käser, M.
Dynamic rupture modeling on unstructured meshes using discontinuous Galerkin methods

11:30–11:45; EGU2008-A-08498; SM9-1MO2O-005
Konstantinou, K.; Lee, S.-J.; Evangelidis, C.; Melis, N.
Finite Fault Inversion of the January 8 2006 (M_w 6.7) Kythira Earthquake, southern Greece

11:45–12:00; EGU2008-A-04213; SM9-1MO2O-006
Hosny, A.; Guidarelli, M.; Panza, G
Source Moment Tensors of the earthquake Swarm in Abu-Dabbab area, Mars-Alam, South-East Egypt

12:00 END OF SESSION

SM9 Earthquake Source Rupture Models, Slip Distribution Studies, and Nucleation and Growth of Fault Systems – Posters

Convener: TAYMAZ, T.
Co-Convener(s): Rumker, G.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
Poster Area Hall A
Chairperson: TAYMAZ, T., AND RUMKER, G.

A0468; EGU2008-A-00063; SM9-1MO5P-0468
Taymaz, T.; Yolsal, S.; Yalciner, A.C.
Seismotectonics of the Cyprus Arc and Dead Sea Transform Fault and Simulations of the Historical Earthquakes and Tsunamis

A0469; EGU2008-A-00065; SM9-1MO5P-0469
Yolsal, S.; Taymaz, T.; Yalciner, A.C.
Earthquake Source Rupture Characteristics Along the Hellenic Arc and Simulation of the AD 365 Crete Earthquake and its Tsunami

A0470; EGU2008-A-00088; SM9-1MO5P-0470
Ashkpour, A.; Yolsal, Y.; Mostafazadeh, M.; Taymaz, T.
Source parameters of the March 4, 1999 earthquake ($M_w \sim 6.6$) of Oman-Line (S Iran) based on teleseismic Body-Waveform data

A0471; EGU2008-A-00488; SM9-1MO5P-0471
Ulutas, E.
Site corrections for strong ground motion stations by using peak ground accelerations in the Marmara region, NW Turkey.

A0472; EGU2008-A-00569; SM9-1MO5P-0472
Malita, Z.; Radulescu, F.; **Placinta, A.O.**
Subcrustal seismic activity in Romania (except Vrancea area)

A0473; EGU2008-A-00594; SM9-1MO5P-0473
Popescu, E.; **Placinta, A.O.;** Moldovan, I.A.; Radulian, M.
Source characteristics for Vrancea (Romania) intermediate-depth earthquakes

A0474; EGU2008-A-05461; SM9-1MO5P-0474
Thorwart, M.; Rabbel, W.; Taylor, W.
Nonvolcanic tremors in Costa Rica

A0475; EGU2008-A-07391; SM9-1MO5P-0475
Klingelhoefer, F.; Dessa, J.-X.; Gutscher, M.-A.; Graindorge, D.; Permana, H.; Chauhan, A.; Singh, S.
The limits of the seismogenic zone in the epicentral region of the 26 Dec. 2004 Great Sumatra-Andaman earthquake: results from a wide-angle seismic (OBS) survey and thermal modeling

A0476; EGU2008-A-08588; SM9-1MO5P-0476
Brietzke, G.; Cochard, A.; Igel, H.
Dynamic rupture propagation on a bimaterial strike-slip fault and resulting strong ground motion

A0477; EGU2008-A-08792; SM9-1MO5P-0477
Abe, S.; Mair, K.
How do Things break in Fault Gouge ? Abrasion vs. grain splitting in Discrete Element Simulations.

A0478; EGU2008-A-09057; SM9-1MO5P-0478
Walter, T. R.; Victor, P.; Krawczyk, C.; Oncken, O.
Detecting sub-millimeter fault slip using extensometers in the forearc and volcanic zone of northern Chile

A0479; EGU2008-A-09765; SM9-1MO5P-0479
Schurr, B.; Motagh, M.; Asch, G.; Krüger, F.; Andersson, J.; Oncken, O.; Kind, R.; Ohrnberger, M.; Barrientos, S.
The 14 November, 2007 M_w 7.8 Tocopilla, northern Chile earthquake within the Iquique seismic gap

A0480; EGU2008-A-09928; SM9-1MO5P-0480
Sobiesiak, M.; Eggert, S.; Grosser, H.; Walter, T.; Schurr, B.; Vilotte, J.-P.; Arranda, C.; Woith, H.; Wetzels, H.-U.; Gonzalez, G.; The Task Force Team
Post seismic Task Force Operation after the M_w 7.7 Tocopilla Earthquake in Northern Chile

SM12 Realistic modelling and inversion of high-frequency seismic and electromagnetic wave phenomena in the shallow subsurface

Convener: Holliger, K.
Co-Convener(s): Irving, J., Levander, A.
Lecture Room 34
Chairperson: N.N.

17:30–17:45; EGU2008-A-02778; SM12-1MO5O-001
Tronicke, J.; Paasche, H.
Zonal cooperative inversion of disparate geophysical data sets

17:45–18:00; EGU2008-A-03449; SM12-1MO5O-002
Maurer, H.R.; Greenhalgh, S.
Full waveform inversion of high-resolution seismic data – a quest for maximizing subsurface information

18:00–18:15; EGU2008-A-06823; SM12-1MO5O-003
Belina, F.A.; Irving, J.; Ernst, J.R.; Holliger, K.
Full-waveform inversion of crosshole georadar data: influence of source wavelet estimation

18:15–18:30; EGU2008-A-07500; SM12-1MO5O-004

Baron, L.; Holliger, K.

Constraints on the permeability structure of surficial alluvial aquifers from P-wave sonic logs: methodological considerations and application to observed data

18:30–18:45; EGU2008-A-06924; SM12-1MO5O-005

Irving, J.; Holliger, K.; Knight, R.

Inversion for the lateral correlation structure of subsurface velocity heterogeneity from wave-based reflection images

18:45–19:00; EGU2008-A-01991; SM12-1MO5O-006

Frehner, M.; Steeb, H.; Saenger, E. H.; Schmalholz, S. M. Numerical modeling of wave propagation and scattering phenomena in heterogeneous and poroelastic rocks

19:00–19:15; EGU2008-A-08371; SM12-1MO5O-007

Käser, M.; Castro, C.E.; de la Puente, J.; Dumbser, M. Improved modeling of seismic waves using the Discontinuous Galerkin Scheme on different mesh types

19:15 END OF SESSION

SM14 General session on shallow seismics and georadar

Convener: Nielsen, L.

Co-Convener(s): Müller, C.

Lecture Room 34

Chairperson: N.N.

19:15–19:30; EGU2008-A-01893; SM14-1MO6O-002

Gouedard, P.; Cornou, C.; Roux, P.; Campillo, M. Phase-velocity dispersion curves and small-scale geophysics using surface waves extracted from noise correlation slant stack technique (solicited)

19:30–19:45; EGU2008-A-12274; SM14-1MO6O-003

Wilken, D.; Mueller, C.; Woelz, S.; Rabbel, W. Particle Swarm Optimization for Scholte-wave inversion as part of offshore foundation soil analysis

19:45–20:00; EGU2008-A-05830; SM14-1MO6O-004

Yedlin, M.; Cresp, A.; Pichot, C.; Aliferis, I.; Dauvignac, J.; Gaffet, S.

Reverse-time imaging using an ultra-wideband (uwb) antenna array with application to geophysics

20:00–20:15; EGU2008-A-10124; SM14-1MO6O-005

Dahm, T.; Krüger, D.; Krüger, J.; Ohrnberger, M.; Wiederhold, H.; Reuther, C.D.; Scherbaum, F.; Dehghani, A. Geophysical study of a shallow salt diapir in the densely built-up city area of Hamburg, Northern Germany

20:15–20:30; EGU2008-A-01346; SM14-1MO6O-006

Hirai, A.; Miyata, T.; Nigauri, Y. Assessment of ancient stream channel offset across the Koyo strike-slip fault in the urban area of Kobe-Ashiya (Japan) using ground-penetrating radar

20:30 END OF SESSION

Tuesday

IS54 - SM2/TS15 Towards a view of the 4D evolution of Europe (co-organized by SM & TS)

Convener: Ebbing, J.

Co-Convener(s): Gallart, J., Cloetingh, S.

Lecture Room 34

Chairperson: GALLART, J

8:30–9:00; EGU2008-A-11870; IS54 - SM2/TS15-1TU1O-001

Busby, R.; Hafner, K.; Woodward, R.; Fowler, J. Experience with EarthScope's Transportable Array in the United States (solicited)

9:00–9:15; EGU2008-A-08125; IS54 - SM2/TS15-1TU1O-002

Tesauero, M.T.; Kaban, M.K.; Coetingh, S.C. EuCRUST-07: A new reference model for investigations of mantle structure

9:15–9:30; EGU2008-A-05443; IS54 - SM2/TS15-1TU1O-003

Carbonell, R.; Pazos, A.; Morales, P.; García-Lobón, J.L.; Córdoba, D.; Pulgar, J.; Villaseñor, A.; Díaz, J.; Gaite, B.; Gallart, J. IBERARRAY: Linking the the surface topography with the deep lithosphere in the Iberia Peninsula. (solicited)

9:30–9:45; EGU2008-A-01159; IS54 - SM2/TS15-1TU1O-004

Alvarez-Marron, J.; Menendez-Duarte, R.; Glas-macher, U.A.; Stuart, F.; Grobe, R.; Fernández, S.; Brown, D. The landscape in the western Cantabrian Mountains of NW Spain: the rates of landform evolution next to an incipient subduction margin

9:45–10:00; EGU2008-A-03927; IS54 - SM2/TS15-1TU1O-005

Caporali, A. ; The CEGRN team Surface Kinematics in the Alpine–Carpathian–Dinaric and Balkan Region inferred from a Multi-Network Combination Solution from national and regional GPS Networks

10:00 COFFEE BREAK

Chairperson: CLOETINGH, S.

10:30–10:45; EGU2008-A-09673; IS54 - SM2/TS15-1TU2O-001

Merten, S.; Matenco, L.; Foeken, J.P.T.; Stuart, F.M.; Andriessen, P.A.M. New constraints on location, timing and rates of Cretaceous – Quaternary exhumation of the SE Carpathians (Romania): Insights from low-temperature thermochronology

10:45–11:00; EGU2008-A-06960; IS54 - SM2/TS15-1TU2O-002

Brückl, E.; Behm, M.; Decker, K.; Grad, M. Crustal Structure and Tectonic Processes in the Eastern Alps Revealed by Controlled Source Seismic Investigations

11:00–11:15; EGU2008-A-08183; IS54 - SM2/TS15-1TU2O-003

Neubauer, F.; Genser, J. A new model for the tectonic evolution of the Eastern Alps: Inferences for south-eastern European mountain belts

11:15–11:30; EGU2008-A-03772; IS54 - SM2/TS15-1TU2O-004

Maupin, V.; TopoScandiaDeep group The deep structure component of TopoScandia (solicited)

11:30–11:45; EGU2008-A-04006; IS54 - SM2/TS15-1TU2O-005
Stratford, W.; Thybo, H.; Faleide, J.; Olesen, O.; Tryggvason, A.
Lithospheric structure of the southern Scandes: preliminary results from MAGNUS-REX, new crustal scale refraction profiling of southern Norway.

11:45–12:00; EGU2008-A-07297; IS54 - SM2/TS15-1TU2O-006
Balling, N.; Jacobsen, B.H.; Svenningsen, L.; Nielsen, S.B.
Seismological and gravity evidence for a buoyant crustal root beneath the highlands of Southern Norway and tectonic implications

12:00 LUNCH BREAK

Chairperson: EBBING, J.

13:30–13:45; EGU2008-A-02842; IS54 - SM2/TS15-1TU3O-001
England, R.; Ebbing, J
SCANLIPS – A seismological study of epeirogenic uplift of Scandinavia

13:45–14:00; EGU2008-A-04016; IS54 - SM2/TS15-1TU3O-002
Anell, I.; Thybo, H.; Artemieva, I
Cenozoic uplift and subsidence in the North Atlantic region

14:00–14:15; EGU2008-A-06757; IS54 - SM2/TS15-1TU3O-003
Nielsen, S.B.; CENMOVE WORKING GROUP
The ICE (isostasy-climate-erosion) hypothesis for the evolution of the Scandinavian Caledonides

14:15–14:30; EGU2008-A-10867; IS54 - SM2/TS15-1TU3O-004
Faleide, J. I.; Gabrielsen, R. H.; Nystuen, J. P.
The Cenozoic sedimentary record offshore Norway - constraining vertical motions in time and space

14:30 END OF SESSION

IS54 - SM2/TS15 Towards a view of the 4D evolution of Europe (co-organized by SM & TS) – Posters

Convener: Ebbing, J.
Co-Convener(s): Gallart, J., Cloetingh, S.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 17:30–19:00
Poster Area Hall A
Chairperson: EBBING, J.

A0499; EGU2008-A-07096; IS54 - SM2/TS15-1TU5P-0499
Koulakov, I.; Kaban, M.K.; Tesauro, M.; Cloetingh, S.
P and S velocity anomalies in the upper mantle beneath Europe from tomographic inversion of the ISC data .

A0500; EGU2008-A-06580; IS54 - SM2/TS15-1TU5P-0500
Weidle, C.; Maupin, V.; Ritter, J.; Kværna, T.; Schweitzer, J.; Balling, N.; Thybo, H.; Faleide, J.I.
Mantle investigations of Norwegian Uplift Structure (MAGNUS) – a temporary broadband network in southern Norway

A0501; EGU2008-A-01669; IS54 - SM2/TS15-1TU5P-0501
Ebbing, J.; Olesen, O.; Pascal, C.; Steinberger, B.
Isostasy, dynamic topography and the missing root of the Scandes

A0502; EGU2008-A-06830; IS54 - SM2/TS15-1TU5P-0502
Hansen, J.-A.; Bergh, S.; Eig, K.; Henningsen, T.; Olesen, O.
Onshore-offshore basement architecture on the North Norwegian margin – influences of Mesozoic to early Palaeogene tectonics

A0503; EGU2008-A-05455; IS54 - SM2/TS15-1TU5P-0503
Kurlovich, D.M.; Bogdanova, S.V.
Relationships between Precambrian fault zones and present-day lineaments in northern Belarus

A0504; EGU2008-A-07226; IS54 - SM2/TS15-1TU5P-0504
Garate, J.; Martin Davila, J.; Khazaradze, G.; Gil, A.; Jimenez-Munt, I.; Ayarza, P.; Ayala, C.; Tellez, J.; Rodriguez-Caderot, G.; Gallastegui, J.
TopoIberia Continuous GPS Network: Design and Implementation.

A0505; EGU2008-A-09243; IS54 - SM2/TS15-1TU5P-0505
Fernández-Lozano, J.; Sokoutis, D.; Willingshofer, E.; Cloetingh, S.; De Vicente, G.
Lithospheric-scale Folding in Iberia: Insights from Analogue Models.

SM3 Seismic Signatures of the Crust

Convener: Krawczyk, C.
Co-Convener(s): Heikkinen, P.
Lecture Room 34
Chairperson: N.N.

15:30–15:45; EGU2008-A-05389; SM3-1TU4O-001
Carbonell, R.; Simancas, F.; Martinez-Poyatos, D.; Ayarza, P.; Pérez-Estaún, A.; Tejero, R.; Martín-Parra, L.; Gonzalez-Lodeiro, F.; García-Lobon, J.L.; Mansilla, L.
The ALCUDIA project: A Deep Seismic Reflection Image of Mechanisms Controlling the Evolution of the Crust in Central Iberian Zone (Iberian Massif)

15:45–16:00; EGU2008-A-03267; SM3-1TU4O-002
Diaz, J.; Gallart, J.; Pulgar, J.A.; Ruiz, M.; Gaspa, O.; Lopez, C.; Gonzalez-Cortina, J.M.
Crustal structure beneath North-West Iberia imaged using receiver functions.

16:00–16:15; EGU2008-A-00111; SM3-1TU4O-003
Brown, D.; Llana-Funez, S.; Carbonell, R.; Alvarez-Marron, J.; Salisbury, M.
Laboratory measurements of seismic velocities of a continental lower crust and upper mantle analog in Cabo Ortegal, Spain.

16:15–16:30; EGU2008-A-08373; SM3-1TU4O-004
Liang, W.-T.; Kuo, B.-Y.; Ma, K.-F.
Shallow seismic velocity of central Taiwan at TCDP drill site from downhole linear array analysis

16:30–16:45; EGU2008-A-04847; SM3-1TU4O-005
Eckhardt, C.; Rabbel, W.
Seismic anisotropy in the area of the German Regional Seismic Network (GRSN) using P-to-S converted phases.

16:45–17:00; EGU2008-A-07014; SM3-1TU4O-006
Boemler, M.; Gregersen, S.; Voss, P.; Mosegaard, K.
Tomographic mapping of Lg propagation in Northern Europe- How important is the Tornquist zone?

17:00–17:15; EGU2008-A-04776; SM3-1TU4O-007
Pinar, A.; Ucer, S.B.; Honkura, Y.; Ito, A.; Baris, S.; Matsushima, M.; Sezgin, N.; Kalafat, D.; Horiuchi, S.
 The State of Stress Along the Fault Rupture Zone of the 1999 Izmit (Turkey) Earthquake

17:15 END OF SESSION

SM3 Seismic Signatures of the Crust – Posters

Convener: Krawczyk, C.

Co-Convener(s): Heikkinen, P.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 17:30–19:00

Poster Area Hall A

Chairperson: N.N.

A0506; EGU2008-A-05313; SM3-1TU5P-0506

Baranov, A.; Kaban, M.K.

First steps toward a new crustal model of South and Central Asia.

A0507; EGU2008-A-06299; SM3-1TU5P-0507

Saito, H.; Abe, S.; Sato, H.; Koshiya, S.; Kato, N.; Kawanaka, T.
 Deep seismic reflection profiling across the Kitakami lowland, northeast Japan

A0508; EGU2008-A-06812; SM3-1TU5P-0508

Palomeras, I.; Jones, L.; Fomin, T.; Simancas, F.; Martinez-Poyatos, D.; Lodeiro, F.; Carbonell, R.; Perez-Estaun, A.
 Constraining Lithospheric evolution in Southwestern Iberia

A0509; EGU2008-A-08742; SM3-1TU5P-0509

Sens-Schönfelder, C.; Margerin, L.

Lg-Blockage in the western Pyrenees explained with locally increased heterogeneity based on Radiative Transfer Theory (solicited)

A0510; EGU2008-A-05699; SM3-1TU5P-0510

Llana-Fúnez, S.; Brown, D.; Carbonell, R.; Alvarez-Marrón, J.; Salisbury, M.

Seismic properties of Cabo Ortegal (Spain) continental lower crust and upper mantle rocks inferred from Crystallographic Preferred Orientation (CPO) patterns measured by EBSD

A0511; EGU2008-A-02795; SM3-1TU5P-0511

Scarf, L.; Scaltrito, A.; Langer, H.

High precision Earthquake locations and an adaptive mesh seismic tomography of the Messina Strait (Italy)

A0512; EGU2008-A-10216; SM3-1TU5P-0512

Jakovlev, A.; Rumpker, G.; Koulakov, I.; Ochmann, N.

Crustal velocity structure of the Rwenzori region, Uganda, from isotropic and anisotropic travel-time tomography (solicited)

A0513; EGU2008-A-03745; SM3-1TU5P-0513

Malinowski, M.; White, D. J.; Mwenifumbo, C. J.; Salisbury, M.; Bellefleur, G.; Schmitt, D.; Dietiker, B.; Schetselaar, E.; Duxbury, A.

Seismic Exploration for VMS Deposits within the Paleoproterozoic Flin Flon Belt, Trans-Hudson Orogen, Canada

A0514; EGU2008-A-02884; SM3-1TU5P-0514

Sobishevitch, A.L.; Gorbatiykov, A.V.; Ovsuchenko, A.N.; Sobishevitch, L.E.; Ratner, S.V.; Lozovoy, V.V.

Results of study of deep structure of mud volcanoes in the Taman mud volcanic province (Taman peninsula) by means of geological and geophysical methods

A0515; EGU2008-A-03268; SM3-1TU5P-0515

Gorbatikov, A.V.; Arnoso, J.; Montesinos, F.G.; Stepanova, M.Yu.

Development of the model of El Hierro island (Canary Islands) on a basis of complementary interpretation the results of low-frequency microseismic sounding and gravimetric survey

A0516; EGU2008-A-06858; SM3-1TU5P-0516

Martinez-Arevalo, C.; Mancilla, F.; Carmona, J.; Garcia, A.

S-wave seismic velocity structure beneath Canary Islands from receiver function analysis

A0517; EGU2008-A-01233; SM3-1TU5P-0517

Alikhani, Z.; Sodoudi, F.; Sadidkhoy, A.

Moho depth and Vp/Vs ratio beneath the Isfahan network of Iran from analysis of teleseismic P receiver functions

A0518; EGU2008-A-05396; SM3-1TU5P-0518

Rogozhin, E.A.; Kharazova, Yu.V.; **Gorbatikov, A.V.;** Stepanova, M.Yu.; Shanov, S.; Mitev, A.

Estimations of deep structure and seismic hazard in the Eastern part of Intramoesian fault on the basis of geological and geophysical data with aid from low-frequency microseismic sounding

A0519; EGU2008-A-07004; SM3-1TU5P-0519

Perchuc, E.; **Gaczynski, E.**

Baikal Rift Zone: character of tectonic blocks based on P and S-waves data

A0520; EGU2008-A-08059; SM3-1TU5P-0520

., .; CELEBRATION 2000 Working Group

Crustal structure of the Western Carpathians derived from CELEBRATION 2000 seismic profiles

A0521; EGU2008-A-07965; SM3-1TU5P-0521

Sroda, P.

A seismic discontinuity in the uppermost mantle of the West Carpathians – reflectivity characteristics and 3-D modelling based on CELEBRATION'2000 data (solicited)

A0522; EGU2008-A-07475; SM3-1TU5P-0522

Czuba, W.; Majdanski, M.; Malinowski, M.; Moskalik, M.; Sroda, P.; Wilde-Piorko, M.; Grad, M.; Guterch, A.; Mjelde, M.

Seismic crustal structure of north-western and southern Spitsbergen

A0523; EGU2008-A-02472; SM3-1TU5P-0523

Silvennoinen, H.; Kozlovskaya, E.; Yliniemi, J.; Tiira, T.; FIRE Working Group

Interpretation of wide-angle reflection and refraction recordings of Vibroseis signals and 3D gravity modelling along FIRE4 profile, northern Finland

A0524; EGU2008-A-09736; SM3-1TU5P-0524

Korja, A.; Heikkinen, P.; Roslov, Y.

North European Transect – a preliminary compilation

SM5 Structure and composition from crust to core: Towards a European reference model

Convener: Trampert, J.

Co-Convener(s): Morelli, A.

Lecture Room 34

Chairperson: TRAMPERT, J

17:30–17:45; EGU2008-A-01719; SM5-1TU5O-001

Qin, Y.; Capdeville, Y.; Montagner, J.P.; Lebedev, S.; Beucler, E.

SPICE Benchmark for global tomographic methods

17:45–18:00; EGU2008-A-02440; SM5-1TU5O-002
Bozdag, E.; Trampert, J.
Assessment of tomographic mantle models using SEM seismograms

18:00–18:15; EGU2008-A-05823; SM5-1TU5O-003
Stich, D.; Danecek, P.; Morelli, A.; Tromp, J.
Imaging deep heterogeneity in the northern Apennines from reflected surface waves

18:15–18:30; EGU2008-A-03483; SM5-1TU5O-004
Geissler, W.H.; Kind, R.; Yuan, X.
Heterogeneities of the upper mantle and the lithosphere in central and eastern Europe as seen by teleseismic receiver functions

18:30–18:45; EGU2008-A-10731; SM5-1TU5O-005
Lombardi, D.; Braunmiller, J.; Kissling, E.; Giardini, D.
Imaging the Alpine mantle transition zone with receiver functions

18:45–19:00; EGU2008-A-01422; SM5-1TU5O-006
Weidner, D.; Li, L
Softening of P waves in the mantle due to phase transitions

19:00 END OF SESSION

SM14 General session on shallow seismics and georadar – Posters

Convener: Nielsen, L.
Co-Convener(s): Müller, C.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 17:30–19:00
Poster Area Hall A
Chairperson: N.N.

A0525; EGU2008-A-04079; SM14-1TU5P-0525
Demand, J.; Marillier, F.
Detection of near-surface lateral heterogeneities from surface wave analysis and recalculation of local dispersion curves

A0526; EGU2008-A-04513; SM14-1TU5P-0526
Kim, K.Y.; Jeon, K.M.
Seismic investigation of an embankment dam using P and Rayleigh waves

A0527; EGU2008-A-07003; SM14-1TU5P-0527
Petrosino, S. ; Damiano, N.; Cusano, P.; Veneruso, M.; Zaccarelli, L.; Torello, V.; Del Pezzo, E.
Seismic noise at Solfatara Volcano (Campi Flegrei): acquisition techniques and first results for the definition of the shallow crustal structure

A0528; EGU2008-A-10486; SM14-1TU5P-0528
Luzón, F.; García-Jerez, A.; Almendros, F.J.; Pérez-Ruiz, J.A.; Navarro, M.
Analysis of microtremors in the La Palma island (Canaries, Spain)

A0529; EGU2008-A-11880; SM14-1TU5P-0529
Bruun, JB.; Surlyk, FS; Nielsen, LN; Uldall, AU
3D seismic data and attributes applied to redeposited Upper Cretaceous chalk of the North Sea

A0530; EGU2008-A-08611; SM14-1TU5P-0530
Miyata, T.; Nigauri, Y.
Investigation of concealed active faults using ground-penetrating radar in Kobe mega-city, Japan

A0531; EGU2008-A-06646; SM14-1TU5P-0531
Nielsen, L.; Møller, I.; Nielsen, L. H.; Johannessen, P. N.; Pejrup, M.; Andersen, T. J.; Korshøj, J. S.
Integrated GPR and sedimentological studies of the Rømø barrier island, Danish Wadden Sea

SM16 New Advances in Real Time Seismology and Data Mining – Posters

Convener: Rietbrock, A.
Co-Convener(s): Ohrnberger, M.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 17:30–19:00
Poster Area Hall A
Chairperson: N.N.

A0532; EGU2008-A-04317; SM16-1TU5P-0532
Pacchiani, F.; Heimann, S; Seriani, G; Cesca, S; Dahm, T
Fast kinematic source inversion using Green's function interpolation

A0533; EGU2008-A-06335; SM16-1TU5P-0533
Köhler, A.; Ohrnberger, M.; Scherbaum, F.
Unsupervised Feature Selection for Seismic Phase Detection and Event Classification using Self-Organizing Maps and Significance Testing

A0534; EGU2008-A-06763; SM16-1TU5P-0534
Lambotte, S.; Lyon-Caen, H.; Bernard, P.; Pacchiani, F.; Bourouis, S.
Multiplet identification from a large earthquake database in the Western part of the Corinth Gulf

A0535; EGU2008-A-08826; SM16-1TU5P-0535
Küperkoch, L.; Brüstle, A.; Meier, T.; Friederich, W.; the EGELADOS working group
Automated event and phase identification in a regional seismic network

Wednesday

SM11 New advances in seismic inversion and imaging (REPSOL-YPF symposia)

Convener: Buske, S.
Co-Convener(s): Sallarès, V., Operto, S.
Lecture Room 34
Chairperson: BUSKE, S.

8:30–8:45; EGU2008-A-07485; SM11-1WE1O-001
Taillandier, C.; Noble, M.
2-D and 3-D seismic refraction travel-time tomography based on the adjoint state method

8:45–9:00; EGU2008-A-10005; SM11-1WE1O-002
Valette, B.; Monteiller, V.
Covariance operator and tomography by travel time analysis

9:00–9:15; EGU2008-A-10133; SM11-1WE1O-003
Bayrakci, G.; Laigle, M.; Becel, A.; Hirn, A.; Sapin, M.; Shimamura, H.; Murai, Y.; Taymaz, T.; Ozalaybey, S.
Approach to the complex 3D upper-crustal seismic structure by artificial sources tomography on a grid of OBS in the Sea of Marmara

9:15–9:30; EGU2008-A-07164; SM11-1WE1O-004
Shulgin, A.; Thybo, H
Seismic Tomography Applied to the Danish Basin.

9:30–9:45; EGU2008-A-04643; SM11-1WE1O-005
Hosny, A.; El Hady, S.M.; Mohamed, A.A.; Panza, G.F.
Magma Intrusion in the upper crust of Abu Dabbab area, south east of Egypt from Vp and Vp/Vs tomography

9:45–10:00; EGU2008-A-00173; SM11-1WE1O-006
Smaglichenko, T.A.

Differentiated inversion as an advance to construct realistic seismic images

10:00 COFFEE BREAK

Chairperson: SALLARES, V.

10:30–10:45; EGU2008-A-12123; SM11-1WE2O-001
Bleibinhaus, F.; Rondenay, S.

Effects of irregular topography in waveform inversion

10:45–11:00; EGU2008-A-03374; SM11-1WE2O-002

Ben-Hadj-Ali, B.; Operto, O; Virieux, V; Sourbier, S
3D frequency-domain full waveform tomography (FWT): A feasibility study

11:00–11:15; EGU2008-A-03714; SM11-1WE2O-003

Malinowski, M.; Operto, S.
Quantitative imaging of the Permo-Mesozoic complex and its basement by frequency domain waveform tomography of wide-aperture seismic data from the Polish Basin

11:15–11:30; EGU2008-A-06424; SM11-1WE2O-004

Fichtner, A.; Kennett, BLN; Igel, H; Bunge, HP
Full seismic waveform inversion in the time-frequency domain with applications to the Australian upper mantle

11:30–11:45; EGU2008-A-03676; SM11-1WE2O-005

Mosca, I.; Trampert, J
Simple kernels for long wavelength body wave tomography

11:45–12:00; EGU2008-A-11300; SM11-1WE2O-006

Wathelet, M.; Cornou, C.; Jongmans, D.; Bard, P.-Y.
Conditional neighborhood algorithm: exploring the non-uniqueness of surface wave inversion

12:00 LUNCH BREAK

Chairperson: OPERTO, S.

13:30–13:45; EGU2008-A-01116; SM11-1WE3O-001
Kasilar, A.

Imaging near-surface heterogeneities: surface wave scattering and inversion by Born approximation

13:45–14:00; EGU2008-A-08896; SM11-1WE3O-002

Jacobsen, B.H.; Sverningsen, L.; Hetényi, G.; England, R.; Ritter, J.; Olsen, K.; Roberts, R.; Dahl-Jensen, T.; Thybo, H.; Kind, R.
1-D receiver function model construction and resolution analysis: New insights and remaining issues

14:00–14:15; EGU2008-A-02710; SM11-1WE3O-003

Lin, P.; Wu, Y.
Simultaneous Determination of Velocities and Thicknesses of Layered Model with Genetic Algorithm

14:15–14:30; EGU2008-A-09648; SM11-1WE3O-004

Reilly, J.; Hinkley, D; Krebs, J; Anderson, J; Winbow, G; Traynin, P; Johnson, M
Active source surface seismic imaging; evolution of technology and choices

14:30–14:45; EGU2008-A-06716; SM11-1WE3O-005

Buske, S.; Gutjahr, S.; Sick, C.
3D Fresnel-Volume-Migration

14:45–15:00; EGU2008-A-06414; SM11-1WE3O-006

Ribodetti, A.; Operto, S.; Agudelo, W.; Virieux, J.; Col-lot, J.Y.
2D fine-scale imaging of the subduction channel in Gulf of Guayaquil by Integrated iterative PSDM and Simulated Annealing optimization

15:00 COFFEE BREAK

Chairperson: BUSKE, S.

15:30–15:45; EGU2008-A-01799; SM11-1WE4O-001

Sieminski, A.; Paulssen, H.; Trampert, J.; Tromp, J.
Measurements and sensitivity kernels of finite-frequency SKS splitting

15:45–16:00; EGU2008-A-07074; SM11-1WE4O-002

Pinsky, V.; Husen, S.; Lomax, A.
A comparative study of robust algorithms for rapid, automatic earthquake location

16:00–16:15; EGU2008-A-11413; SM11-1WE4O-003

Lokmer, I.; Bean, C.J.; O'Brien, G.S.; Saccorotti, G.
Long period source inversions in volcanic environments constrained by synthetic tests: preventing misleading interpretations

16:15–16:30; EGU2008-A-03233; SM11-1WE4O-004

Gorbatikov, A.V.; Stepanova, M.Yu.; Sobissevitch, A.L.; Rogozhin, E.A.
Influence of local geological heterogeneities on forming the amplitudes of low-frequency microseismic field and sounding the geological medium with microseisms

16:30 END OF SESSION

SM11 New advances in seismic inversion and imaging (REPSOL-YPF symposia) – Posters

Convener: Buske, S.

Co-Convener(s): Sallarès, V., Operto, S.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Hall A

Chairperson: SALLARES, V. AND OPERTO, S.

A0425; EGU2008-A-04108; SM11-1WE5P-0425

Majdanski, M.; Hobbs, R.W.
Bayesian determination of the uncertainty in the travel time inversion

A0426; EGU2008-A-03544; SM11-1WE5P-0426

Guasch, L.; Operto, S.; Sallarès, V.; Carbonell, R.
Assessment of continuous offset sampling acquisition geometries for imaging complex structures by combined first-arrival travel time and full waveform tomography: application to the Overthrust model.

A0427; EGU2008-A-05398; SM11-1WE5P-0427

Jacobsen, B.H.; Bondo, A.; Weidle, C.; Nielsen, L.; Balling, N.
Identification of adverse effects of wrong sensitivity kernels in 3D-tomographic inversion.

A0428; EGU2008-A-06149; SM11-1WE5P-0428

Gung, Y.; Hsu, Y.-T.; Chiao, L.-Y.
From Global functions to Regional Wavelets - Multi-scale Tomography of the Pacific Upper Mantle

A0429; EGU2008-A-09226; SM11-1WE5P-0429

Peter, D.; Boschi, L.; Woodhouse, J.H.
Global surface-wave tomography: a comparison between ray and finite-frequency theory

A0430; EGU2008-A-03994; SM11-1WE5P-0430
Asakawa, E.; Mizohata, S.; Tsujimoto, S.; Mikada, H.; Nishizawa, A.
Depth Imaging of OBS Reflection Data with Wave Field Separation.

A0431; EGU2008-A-04869; SM11-1WE5P-0431
Yoon, M.; Bannister, S.
Application of the CRS stack to deep marine seismic reflection data from the Hikurangi margin, New Zealand

A0432; EGU2008-A-07730; SM11-1WE5P-0432
Tzavaras, J.; **Buske, S.;** Gross, K.; Shapiro, S.
Seismic imaging around and ahead of tunnel construction sites

A0433; EGU2008-A-07749; SM11-1WE5P-0433
Martí, D.; Palomeras, I.; Flecha, I.; Carbonell, R.
Another approach to Kirchhoff Prestack Depth Migration

A0434; EGU2008-A-08698; SM11-1WE5P-0434
Gesret, A.; Sachpazi, M.; Diaz, J.; Laigle, M.; Galve, A.; Him, A.
Multiscale and multiangle analysis of receiver functions: application to the slab of the Hellenic subduction zone

A0435; EGU2008-A-01687; SM11-1WE5P-0435
Steiner, B.; Saenger, E.H.; Schmalholz, S.M.
Case studies on 2D- and 3D-time reverse modeling of low-frequency microtremors: application to hydrocarbon reservoir localization

A0436; EGU2008-A-11167; SM11-1WE5P-0436
Essen, K.; **Friederich, W.;** Bohlen, T.
Modelling of seismic waves scattered at small-scale structures using the Born approximation

SM16 New Advances in Real Time Seismology and Data Mining

Convener: Rietbrock, A.
Co-Convener(s): Ohnberger, M.
Lecture Room 34
Chairperson: N.N.

17:30–17:45; EGU2008-A-06901; SM16-1WE5O-001
Hildyard, M.W.; Rietbrock, A.
Insights into predominant period as an early estimate of earthquake magnitude

17:45–18:00; EGU2008-A-07232; SM16-1WE5O-002
Boukouras, K.; **Melis, N.**
Towards the development of an early warning system in Greece: First results using data recorded at the HL Seismic Network

18:00–18:15; EGU2008-A-08064; SM16-1WE5O-003
Clinton, J.
Advances in near real-time moment tensor determination at the SED

18:15–18:30; EGU2008-A-08541; SM16-1WE5O-004
Baig, A.; Campillo, M.
Enhancing noise cross-correlations to identify higher-mode surface waves

18:30–18:45; EGU2008-A-10458; SM16-1WE5O-005
Kjartansson, E.
Design of real-time processing for estimation of earthquake source parameters and generation of Shake Maps in Iceland.

18:45 END OF SESSION

SM23 Monitoring temporal changes of Earth's properties with seismic waves – Posters

Convener: Sens-Schönfelder, C.
Co-Convener(s): Wegler, U.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00
Poster Area Hall A
Chairperson: N.N.

A0437; EGU2008-A-02350; SM23-1WE5P-0437
Ohmi, S.; Hirahara, K.
Possible aquifer near the fault plane of the 2007 Noto Peninsula Earthquake, central Japan, detected by the passive image interferometry

A0438; EGU2008-A-02539; SM23-1WE5P-0438
Leroy, V.; **Derode, A.**
Sensitivity of the ultrasonic coda to a temperature change in the presence of resonant scattering

A0439; EGU2008-A-06827; SM23-1WE5P-0439
Nagata, K.; Nakatani, M.; Yoshida, S.
Acoustic monitoring of internal state of faults with gouge affected by slip and loading history

A0440; EGU2008-A-04881; SM23-1WE5P-0440
Yamamoto, M.; Sato, H.
Diffusive characteristics of seismic energy propagation revealed from a dense seismic observation at Asama volcano, Japan

A0441; EGU2008-A-09170; SM23-1WE5P-0441
Jousset, P.; Arnasson, K.; Weber, M.; Fabriol, H.; FranÃ§ois, B.; Stefansson, H.; Jacobsdottir, S.
Broad-band seismological observations at Hengill triple junction geothermal system

A0442; EGU2008-A-09554; SM23-1WE5P-0442
Beilecke, T.; Bram, K.; Buske, S.; **Krawczyk, C.**
Influence of near surface ground conditions on seismic monitoring setups

Thursday

SM6 The European Lithosphere: What do we know? (co-listed in TS; co-sponsored by ILP Task Force)

Convener: Artemieva, I.
Co-Convener(s): Garrido, C., Cloetingh, S., Coltorti, M., Tommasi, A., Szabo, C.
Lecture Room 35
Chairperson: ARTEMIEVA I, GARRIDO C.

13:30–13:45; EGU2008-A-10330; SM6-1TH3O-001
Downes, H.; **Coltorti, M.**
Mantle xenoliths in space and time in Europe (solicited)

13:45–14:00; EGU2008-A-08963; SM6-1TH3O-002
Legendre, C.; Lebedev, S.; Meier, T.; Friederich, W.
Large-scale shear velocity structure of the upper mantle beneath Europe and surrounding regions.

14:00–14:15; EGU2008-A-08719; SM6-1TH3O-003
Artemieva, I M
The continental lithosphere: reconciling thermal, seismic, and petrologic data (a European example)

14:15–14:30; EGU2008-A-10313; SM6-1TH3O-004
Kaban, M.K.; Tesauero, M.; Koulakov, I.; Cloetingh, S.
A new gravity model of the upper mantle of Europe based on a joint analysis of the gravity and seismic data.

14:30–14:45; EGU2008-A-08415; SM6-1TH3O-005
Bogdanova, S.V.; Tsymbal, S.N.; Pashkevich, I.K.;
Tsvetkova, T.A.; Billstroem, K.; Tsymbal, Yu.S.; Shumlyan-
skyy, L.V.
The heterogeneous lithosphere beneath the Ukrainian Shield
(solicited)

14:45–15:00; EGU2008-A-12437; SM6-1TH3O-006
Puziewicz, J.
Melt metasomatism and igneous cumulates in lithospheric
mantle beneath Lower Silesia (SW Poland)

15:00 COFFEE BREAK

Chairperson: COLTORTI M, CLOETINGH S.

15:30–15:45; EGU2008-A-08564; SM6-1TH4O-001
Souriau, A.; Chevrot, S.; Olivera, C.
A new tomographic subcrustal model of the Pyrenees

15:45–16:00; EGU2008-A-03377; SM6-1TH4O-002
Bokelmann, GHR.; Buontempo, L.; Morales, J.; Barruol, G.
Seismic Anisotropy Beneath Southern Iberian Peninsula
from Splitting of SKS Phases

16:00–16:15; EGU2008-A-00969; SM6-1TH4O-003
Soustelle, V.; Tommasi, A.; Bodinier, J.L.; Garrido, C.;
Vauchez, A.
Interactions between partial melting, magma transport, and
deformation in a fossil lithosphere-asthenosphere boundary:
the Ronda peridotite massif, Spain

16:15–16:30; EGU2008-A-05716; SM6-1TH4O-004
Houseman, G.; Stuart, G.; Hegedüs, E.; Brückl, E.;
Radovanovic, S.; Brisbane, A.; Lorinczi, P.; Dando, B.;
Kovacs, A.; Hausmann, H.
Preliminary results from the Carpathian Basins Project: an
investigation of the seismic structure of the lithosphere in
the Pannonian and Vienna Basins

16:30–16:45; EGU2008-A-00319; SM6-1TH4O-005
Guzmics, T.; Kodolanyi, J.; Zajacz, Z.; Szabo, C.
Mantle metasomatism by primary carbonatite melts found
in melt inclusions in clinopyroxenite xenoliths from lampro-
phyre dikes, Hungary

16:45–17:00; EGU2008-A-00318; SM6-1TH4O-006
Berkési, M.; Hidas, K.; Szabó, Cs.
CO₂-rich fluid inclusion study in upper mantle peridotites
(Pannonian Basin, western Hungary)

17:00 END OF SESSION

SM6 The European Lithosphere: What do we know? (co-listed in TS; co-sponsored by ILP Task Force) – Posters

Convener: Artemieva, I.
Co-Convener(s): Garrido, C., Cloetingh, S., Coltorti, M.,
Tommasi, A., Szabo, C.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
Poster Area Hall A
Chairperson: TOMMASI A, SZABO C

A0504; EGU2008-A-08761; SM6-1TH5P-0504
Artemieva, I M; Thybo, H
Deep Norden: Highlights of the lithospheric structure of
Northern Europe, Iceland, and Greenland

A0505; EGU2008-A-08813; SM6-1TH5P-0505
Artemieva, I M; Thybo, H; Kaban, M K
Deep Europe: Highlights of the lithospheric structure from
multidisciplinary geophysical data

A0506; EGU2008-A-02441; SM6-1TH5P-0506
Sodoudi, F.; Geissler, W. H.; Kind, R.
The thickness of the European Lithosphere as seen by S
receiver functions

A0507; EGU2008-A-02435; SM6-1TH5P-0507
Le Roux, V.; Bodinier, J.-L.; Alard, O.; O'Reilly, S.Y.;
Tommasi, A.; Vauchez, A.
The Lherz massif: 2 Ga history of mantle evolution

A0508; EGU2008-A-03203; SM6-1TH5P-0508
Demetrescu, C.; Tumanian, M.
Thermal and rheological models of the Carpathians foreland
on the Romanian territory, constrained by seismic velocity
data

A0509; EGU2008-A-03285; SM6-1TH5P-0509
Dobrica, V.; Tumanian, M.
Improved thermal model simulating the Neogene volcanic
process in Harghita Mountains (East Carpathians)

A0510; EGU2008-A-00633; SM6-1TH5P-0510
Nédli, Zs.; Princivale, F.; Downes, H.; Dégi, J.; Szabó, Cs.
Petrology and thermobarometry of mantle xenoliths from
the Poiana Rusca (W Romania)

A0511; EGU2008-A-07333; SM6-1TH5P-0511
Kovacs, I; **Falus, Gy;** Hidas, K.; Szabo, Cs.
Collision induced asthenospheric flow in the Carpathian
Pannonian region: a new interpretation for Cenozoic geody-
namics???

A0512; EGU2008-A-04690; SM6-1TH5P-0512
Dando, B. D.; Houseman, G. A.; Stuart, G. W.
Seismic imaging of the Vienna and western Pannonian basins

A0513; EGU2008-A-05285; SM6-1TH5P-0513
Hausmann, H.; Hoyer, S.; Zeisz, K.; Schurr, B.; Brückl, E.;
CBP Team, .; ALPASS Team, .
Seismicity of the Vienna Basin from the temporary ALPASS
and CBP deployments

A0514; EGU2008-A-10151; SM6-1TH5P-0514
Behm, M.; Lippitsch, R.; Kissling, E.; Brückl, E.; Grad, M.;
Sumanovac, F.
A new Moho map for the entire Alpine region

A0515; EGU2008-A-10212; SM6-1TH5P-0515
Jiménez-Munt, I.; **Fernández, M.;** Vergés, J.; Zeyen, H.;
Fullea, J.; Afonso, J.C.; García-Castellanos, D.
The lithospheric structure across the NW Moroccan Margin:
evidences for large scale tectonic inversion

A0516; EGU2008-A-07386; SM6-1TH5P-0516
France, L.; Chazot, G.; Kornprobst, J.; Dallai, L.; Vannucci, R;
Bosq, C
Petrological and geochemical study of late-orogenic mantle
garnet pyroxenites. Implications on magmatism in old
orogenic regions.

A0517; EGU2008-A-09040; SM6-1TH5P-0517
Matusiak, M.; Grégoire, M; Puziewicz, J
Petrology of mantle beneath Central Europe: a case study of
the Lutynia (Sudetes, SW Poland) peridotite xenoliths

A0518; EGU2008-A-06067; SM6-1TH5P-0518
Atanasiu, L.; Besutiu, L.
Gravity-based models of the northern Moesian Plate

A0519; EGU2008-A-06654; SM6-1TH5P-0519
Marello, L.; Ebbing, J.; Ritzmann, O.
A new 3D regional density model for the Barents Sea Region

A0520; EGU2008-A-04157; SM6-1TH5P-0520
Kozlovskaya, E.; Janik, T.; Yliniemi, J.; Heikkinen, P.; FIRE
Petrological crust-mantle boundary vs. seismic Moho in the central Fennoscandian Shield: constraints from collocated wide-angle and near-vertical seismic profiles

A0521; EGU2008-A-03821; SM6-1TH5P-0521
Eken, T.; Plomerova, J.; Roberts, R.; Shomali, H.; Vecsey, L.; Babuska, V.; Bodvarsson, R.
Does Baltic Shield mantle anisotropy in Sweden resemble the fabric of the Archean-Proterozoic domains in central Finland?

A0522; EGU2008-A-06798; SM6-1TH5P-0522
Bogdanova, S.V.; Starostenko, V.I.; Gintov, O.B.; **Pashkevich, I.K.;** Kuprienko, P.Ya.; Kutas, R.Ya.; Makarenko, I.V.; Tsvetkova, T.A.
Long-lived E-W fault zones in the lithosphere of western Sarmatia

A0523; EGU2008-A-05598; SM6-1TH5P-0523
Plotnikova, I.N.
Influence of Deep Processes in the Lithosphere on Features of Development of the Sedimentary Basins

A0524; EGU2008-A-03197; SM6-1TH5P-0524
Wüstefeld, A; **Bokermann, GHR;** Barruol, G
Lithospheric anisotropy beneath the East European Craton

A0525; EGU2008-A-09119; SM6-1TH5P-0525
Artemieva, I M
Dynamic Topography of the East European Craton: mantle downwelling in the interior with mantle upwellings at the margins?

SM8 The nature and origin of the lithospheric-sublithospheric upper mantle from geophysical and petrological modelling (co-listed in GD & GMPV)

Convener: Deuss, A.
Co-Convener(s): Afonso, J., Ranalli, G.
Lecture Room 35
Chairperson: N.N.

8:30–8:45; EGU2008-A-04193; SM8-1TH1O-001
Piccardo, G.B.; Ranalli, G.
Petrological and rheological evolution of lithospheric mantle at extensional settings: evidence from Alpine/Apennine ophiolitic peridotites.

8:45–9:00; EGU2008-A-10841; SM8-1TH1O-002
Phipps Morgan, J.; Morgan, W. J.; Cammarano, F.; Romanowicz, B.; Kito, T.; Thomas, C.
More evidence that a plume-fed asthenosphere underlies all but thick cratonic lithosphere

9:00–9:15; EGU2008-A-09708; SM8-1TH1O-003
Eaton, D>W.; Darbyshire, F.; Evans, R.L.; Gruetter, H.; Jones, A.G.; Yuan, X.
The elusive lithosphere-asthenosphere boundary (LAB)

9:15–9:30; EGU2008-A-07422; SM8-1TH1O-004
Zhang, X.; Paulssen, H.; Lebedev, S.; Meier, T.
Relation between the upper mantle seismic, thermal and compositional structure in the Gulf of California

9:30–9:45; EGU2008-A-08743; SM8-1TH1O-005
Deshayes, P.; Monfret, T.; Pardo, M.; Vera, E.; Virieux, J.; Gerbault, M.; Cappa, F.; Gutscher, M.A.
The Flat subduction in Central Chile-Western Argentina (30–32°S): a mineralogical interpretation based on P- and S-tomographic velocity models.

9:45–10:00; EGU2008-A-04645; SM8-1TH1O-006
Afonso, J.C.; Ranalli, G.; Fernandez, M.; Griffin, W.L.; O'Reilly, S.Y.
Distinguishing thermal vs compositional signatures in the lithospheric mantle from seismic studies: not a simple task

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2008-A-06251; SM8-1TH2O-001
Jones, A.G.; Evans, R.L.; Eaton, D.W.
Velocity-conductivity relationships for mantle mineral assemblages in Archean cratonic lithosphere based on extremal bounds

10:45–11:00; EGU2008-A-11426; SM8-1TH2O-002
Schutt, D.; Leshner, C.; Dueker, K
Are cratons heavy?—The effects of melt depletion on the density structure of cratonic mantle (cancelled)

11:00–11:15; EGU2008-A-09178; SM8-1TH2O-003
Beuchert, MJ; Podladchikov, YY; Simon, NSC; Rupke, LH
Viscoelastic modeling of craton stability

11:15–11:30; EGU2008-A-11153; SM8-1TH2O-004
Beuchert, MJ; Simon, NSC; Podladchikov, YY
Phase Transitions and Thickness of the Oceanic Lithosphere

11:30–11:45; EGU2008-A-04698; SM8-1TH2O-005
Zlotnik, S.; Afonso, J.C.; Fullea, J.; Fernandez, M.; Diez, P.
Evolution and stability of oceanic lithosphere: small-scale convection and the rheology of the sub-lithospheric mantle

11:45 END OF SESSION

SM8 The nature and origin of the lithospheric-sublithospheric upper mantle from geophysical and petrological modelling (co-listed in GD & GMPV) – Posters

Convener: Deuss, A.
Co-Convener(s): Afonso, J., Ranalli, G.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
Poster Area Hall A
Chairperson: N.N.

A0526; EGU2008-A-03286; SM8-1TH5P-0526
Dencker, I.; **Nimis, P.;** Ulmer, P.
Experimental test of the Cr-in-Cpx geobarometer

A0527; EGU2008-A-04648; SM8-1TH5P-0527
Fullea, J.; Afonso, J.C.; Connolly, J.A.; Zlotnik, S.; Fernandez, M.
LitMod3D: a new 3D program for modelling the thermal, compositional, density, rheological, and seismological structure of the lithosphere

A0528; EGU2008-A-05852; SM8-1TH5P-0528
Istekova, S.; Musaev, R.; Dostikhunov, A.
Geophysical criteria of revealing the mantle plums in Southern Kazakhstan

SM23 Monitoring temporal changes of Earth's properties with seismic waves

Convener: Sens-Schönfelder, C.
Co-Convener(s): Wegler, U.
Lecture Room 35
Chairperson: N.N.

17:30–17:45; EGU2008-A-00313; SM23-1TH50-001

Groos, J.; Ritter, J.

Temporal and spatial changes of statistical properties in the urban seismic noise wavefield

17:45–18:00; EGU2008-A-02747; SM23-1TH50-002

Lambert, M.-A.; Schmalholz, S. M.; Saenger, E. H.; Steiner, B.

Time-lapse Microtremor Data recorded on an Oil and Gas Field in Voitsdorf, Austria

18:00–18:15; EGU2008-A-04023; SM23-1TH50-003

Larose, E. ; Derosny, J.; Margerin, L.; Campillo, M.; Gouedard, P.; Anache, D.; Hadziioannou, C.

Monitoring weak changes in complex media with coda waves: laboratory experiments (solicited)

18:15–18:30; EGU2008-A-04927; SM23-1TH50-004

Kovalevsky, V.

Vibroseismic interferometry method for monitoring temporal changes of Earth's crust stressed-deformed state

18:30–19:00; EGU2008-A-06621; SM23-1TH50-005

Brenguier, F.; Campillo, M.; **Shapiro, N. M.;** Hadziioannou, C.; Larose, E.

Monitoring changes in crustal properties with seismic noise (solicited)

19:00 END OF ORAL SESSIONS

Chairperson: N.N.

19:00–19:15; EGU2008-A-06300; SM23-1TH60-001

Wegler, U.; Nakahara, H.; Sens-Schoenfelder, C.; Korn, M.; Shiomi, K.

Monitoring temporal changes in the source region of large crustal earthquakes using Passive Image Interferometry

19:15–19:30; EGU2008-A-10622; SM23-1TH60-002

Cociani, L.; Bean, C.; Lyon-Caen, H.; Möllhoff, M.

Coseismic velocity variations across the fault system of the Gulf of Corinth associated with the 2001 $M = 4.2$ event.

19:30–19:45; EGU2008-A-01725; SM23-1TH60-003

Zaccarelli, L.; Pandolfi, D.; Bianco, F.; Saccorotti, G.; Bean, C.

Crustal velocity and anisotropy temporal variations at Etna volcano

19:45–20:00; EGU2008-A-08225; SM23-1TH60-004

Sens-Schönfelder, C.; Larose, E.

Passive Image Interferometry beyond the Earth

20:00 END OF SESSION

IS57 - SM24/AS4.04 Research and Development in Nuclear Explosion Monitoring (co-organised by SM & AS) – Posters

Convener: Becker, A.
Co-Convener(s): Schurr, B., Kalinowski, M.
Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 17:30–19:00

Poster Area Hall A
Chairperson: COYNE, J.

A0529; EGU2008-A-01918; IS57 - SM24/AS4.04-1TH5P-0529

Bowers, D.; Peacock, S.; Porter, D.; Selby, N.D.; Wallis, N.J.
UK Participation in 2007 NDC Exercise

A0530; EGU2008-A-06421; IS57 - SM24/AS4.04-1TH5P-0530

Jia, Y.

Improving the quality of azimuth estimation in automatic polarization analysis at CTBTO/IDC

A0531; EGU2008-A-07761; IS57 - SM24/AS4.04-1TH5P-0531

Le Bras, R.; Given, J.; Kung, Y.-L.

Moment Tensor of Seismic Events from Rayleigh and Love Waves Using the IMS/CTBTO Network.

A0532; EGU2008-A-02785; IS57 - SM24/AS4.04-1TH5P-0532

Kebede, F.; Koch, K.; Carter, J. A.

Semi-automation of LEB/REB quality control tasks at the IDC

A0533; EGU2008-A-09420; IS57 - SM24/AS4.04-1TH5P-0533

Koch, K

Assessment of detection processing of IMS station data at the IDC

A0534; EGU2008-A-11864; IS57 - SM24/AS4.04-1TH5P-0534

Miljanovic, V.; Schurr, B.; Coyne, J.

Waveform cross-correlation, cluster analysis and relocation applied to events in the Pamir-Hindukush seismic zone using IMS data

A0535; EGU2008-A-03504; IS57 - SM24/AS4.04-1TH5P-0535

Gibbons, S. J.; Ringdal, F.; Kværna, T.

Joint Seismic-Infrasound Processing of Recordings from a Repeating Source of Atmospheric Explosions (solicited)

A0536; EGU2008-A-08856; IS57 - SM24/AS4.04-1TH5P-0536

Brachet, N.; Le Bras, R.; Coyne, J.

Reference events used for developing and testing criteria in the global association of infrasound data at the International Data Centre (solicited)

A0537; EGU2008-A-08925; IS57 - SM24/AS4.04-1TH5P-0537

Coyne, J.; Brachet, N.; Campus, P.; Martysevich, P.; Grant, J.

Experimental Infrasound Array for Understanding Infrasound Signals and Sources

A0538; EGU2008-A-04346; IS57 - SM24/AS4.04-1TH5P-0538

Moldovan, A.S.; Ionescu, C.; Moldovan, I.A.; Ersen, S.; Ersen, A.

Recent results regarding the development of an Infrasound Monitoring Array at Plostina-Vrancea

A0539; EGU2008-A-09983; IS57 - SM24/AS4.04-1TH5P-0539

Le Pichon, A; **Vergoz, J.;** Brachet, N; Ceranna, L; Guilbert, J
Detection capability of the global IMS infrasound network

A0540; EGU2008-A-11852; IS57 - SM24/AS4.04-1TH5P-0540
Fisseha, M.; Kasmi, M.A.; Ndiath, A.S.; Ocal, M.F.; Sitenkov, K.; Brachet, N.; Coyne, J.
Smooth re-introduction of infrasound data analysis into operations at the International Data Centre: Procedures, analysis and results

A0541; EGU2008-A-02166; IS57 - SM24/AS4.04-1TH5P-0541

HEINRICH, Ph.

Numerical simulation of the atmospheric circulation over Tahiti

A0542; EGU2008-A-09720; IS57 - SM24/AS4.04-1TH5P-0542

Becker, A.; Wotawa, G.; Zaehring, M.; Saey, P.R.J

A simple approach to reveal the potential influence of regional sources in support of a radionuclide event categorization scheme

A0543; EGU2008-A-00683; IS57 - SM24/AS4.04-1TH5P-0543

Annewandter, R.; Kalinowski, M.B.

Verification of underground nuclear testing by atmospheric pumping

A0544; EGU2008-A-00227; IS57 - SM24/AS4.04-1TH5P-0544

Abida, R.; Bocquet, M.; Vercauteren, N.; Isnard, O.

Design of a monitoring network in case of a radiological accidental release

A0545; EGU2008-A-04404; IS57 - SM24/AS4.04-1TH5P-0545

Li, J.G.; **Stocki, T.J.;** Japkowicz, N.; Ungar, R.K.; De Geer, L.-E.

Machine Learning Update for compliance verification of the Comprehensive nuclear-Test-Ban Treaty.

A0546; EGU2008-A-09240; IS57 - SM24/AS4.04-1TH5P-0546

Plenteda, R.

Xenon X-ray de-convolution algorithm in Xe-SAINT

A0547; EGU2008-A-02216; IS57 - SM24/AS4.04-1TH5P-0547

Dubasov, Yu.; Okunev, N.

Xe radionuclides monitoring in Northwest region of Russia

A0548; EGU2008-A-09280; IS57 - SM24/AS4.04-1TH5P-0548

Pakhomov, S.A.; Dubasov, Y.V.

Estimation of explosion energy yield at Chernobyl NPP accident

A0549; EGU2008-A-12044; IS57 - SM24/AS4.04-1TH5P-0549

El-Desouky, A.I.; Arafat Ali, H.; **Laban, S.**

Implementing Knowledge-Based Systems in Monitoring Real-Time Systems

A0550; EGU2008-A-12102; IS57 - SM24/AS4.04-1TH5P-0550

Anichenko, A.; Galindo Arranz, M.; Daly, T.; Otsuka, R.; Lastowka, L.; **Castillo, E.;** Malakhova, M.; Han, D.; Stangel, H.

Monitoring and reporting tools of the International Data Centre and International Monitoring System

A0551; EGU2008-A-12103; IS57 - SM24/AS4.04-1TH5P-0551

Anichenko, A.; **Galindo Arranz, M.;** Daly, T.; Otsuka, R.; Lastowka, L.; Castillo, E.; Malakhova, M.; Han, D.; Stangel, H.

Special challenges in the Operation of International Monitoring System Stations

A0552; EGU2008-A-12104; IS57 - SM24/AS4.04-1TH5P-0552

Anichenko, A.; Bigras, S.; Laban, S.; Tuppurainen, A.; **Sudakov, A.;** Alcalá, R.; Agoston, L.

DataPool: Towards a centralized Real-Time Data Acquisition and Distribution System for Treaty Verification

Friday

SM7 Seismic Mantle Characterization

Convener: Achauer, U.

Co-Convener(s): Babuska, V.

Lecture Room 34

Chairperson: BABUSKA, V.

8:30–8:45; EGU2008-A-06597; SM7-1FR1O-001

Weidle, C.; Maupin, V.

An upper mantle S-wave velocity model for Northern Europe from Love and Rayleigh group velocities

8:45–9:00; EGU2008-A-04651; SM7-1FR1O-002

Plomerova, J. ; Achauer, U.; Babuska, V.; Vecsey, L.

Mantle fabric of western Bohemian Massif (central Europe) constrained by 3D seismic P and S velocity tomography and anisotropy (solicited)

9:00–9:30; EGU2008-A-04825; SM7-1FR1O-003

Kind, R

Receiver functions and the seismic lithosphere (solicited)

9:30–10:00; EGU2008-A-04898; SM7-1FR1O-004

Kissling, E.

goals and current limitations of upper mantle seismic tomography (solicited)

10:00 END OF SESSION

SM7 Seismic Mantle Characterization – Posters

Convener: Achauer, U.

Co-Convener(s): Babuska, V.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 13:30–15:00

Poster Area Hall A

Chairperson: ACHAUER, U.

A0506; EGU2008-A-03480; SM7-1FR3P-0506

Dzierma, Y.; Thorwart, M.; Rabbel, W.; Flueh, E. R.; Alvarado, G. E.; Mora, M. M.

A receiver function study of the southern Costa Rican subduction zone

A0507; EGU2008-A-06356; SM7-1FR3P-0507

Erduran, M.; Çakır, Ö.

The crust and upper mantle structure under station ISP (Isparta, Turkey) constrained by joint inversion of receiver functions and surface waves

A0508; EGU2008-A-06473; SM7-1FR3P-0508

Çakır, Ö.; Erduran, M.

On the effective use of S receiver functions for inverting the upper mantle shear-wave velocities

A0509; EGU2008-A-06953; SM7-1FR3P-0509

Perchua, E.; Malinowski, M.

Character of 410 km discontinuity - two boundaries around the top of mantle transition zone

A0510; EGU2008-A-09482; SM7-1FR3P-0510

Moorkamp, M.; Jones, A. G.; Lebedev, S.; Fishwick, S.; THE SAMTEX TEAM

Joint inversion of receiver functions, surface wave dispersion and magnetotelluric data

- A0511;** EGU2008-A-11202; SM7-1FR3P-0511
Essen, K.; Braatz, M.; Ceranna, L.; **Friederich, W.**; Meier, T.
Modelling of wave propagation along the plate contact of the Hellenic subduction zone
- A0512;** EGU2008-A-03269; SM7-1FR3P-0512
Barruol, G.; Deschamps, A.; Déverchère, J.; Mordvinova, V.; Ulziibat, M.; Perrot, J.; Artemiev, S.; Dugarmaa, T.; Bokelmann, GHR.
Upper Mantle Anisotropy Beneath Central Mongolia
- A0513;** EGU2008-A-03951; SM7-1FR3P-0513
Ritter, J.R.R.; Wagner, M.
High-resolution SKS anisotropy indicates asthenospheric flow below SW Germany
- A0514;** EGU2008-A-06305; SM7-1FR3P-0514
Vecsey, L.; Plomerova, J.; Babuska, V.; Karousova, H.
Body-wave anisotropy as a diagnostics of varying upper mantle structure beneath the northern part of the Bohemian Massif
- A0515;** EGU2008-A-06708; SM7-1FR3P-0515
Lisi, A.; Li, A.
Phase velocity and azimuthal anisotropy variations beneath the central Tien Shan
- A0516;** EGU2008-A-08634; SM7-1FR3P-0516
Plenefisch, T.; Stammer, K.
Investigations of upper mantle anisotropy beneath the Gräfenberg-Array – first usage of the new three-component broadband stations in the SKS splitting analysis
- A0517;** EGU2008-A-08774; SM7-1FR3P-0517
Li, X.; Wei, D.; Yuan, X.; Kind, R.; Kumar, P.; Zhou, H.
Moho topography beneath the southern Lhasa terrane by receiver functions
- A0518;** EGU2008-A-09471; SM7-1FR3P-0518
van Benthem, S.; Valenzuela, R.; Castro, R.; Obrebski, M.
Measurements of upper mantle shear wave anisotropy from stations around the southern Gulf of California
- A0519;** EGU2008-A-07755; SM7-1FR3P-0519
Evangelidis, C. P.; Melis, N. S.; Konstantinou, K. I.; Liang, W.-T.; the EGELADOS working group
SKS splitting measurements and shear wave anisotropy in the upper mantle beneath the Aegean
- A0520;** EGU2008-A-00381; SM7-1FR3P-0520
Keshvari, F.; Shomali, Z.H.; Mirzaei, N.
Non-linear body wave teleseismic tomography across the Zagros collision zone
- A0521;** EGU2008-A-03496; SM7-1FR3P-0521
Cimini, G. B.
Uppermost mantle structure beneath Southern Italy from Pn tomography
- A0522;** EGU2008-A-05737; SM7-1FR3P-0522
Sigloch, K.; McQuarrie, N.; Nolet, G.
A complex, two-phase subduction history of the Farallon plate revealed by finite-frequency tomography
- A0523;** EGU2008-A-07878; SM7-1FR3P-0523
Kozlovskaya, E.; LAPNET, WG
POLENET/LAPNET - a multidisciplinary seismic array research in northern Fennoscandia: first results
- A0524;** EGU2008-A-11682; SM7-1FR3P-0524
Walther, M.; Plenefisch, T.; Ruempker, G.
Automated analysis of SKS shear-wave splitting for regional seismic networks
- IS57 - SM24/AS4.04 Research and Development in Nuclear Explosion Monitoring (co-organised by SM & AS)**
Convener: Becker, A.
Co-Convener(s): Schurr, B., Kalinowski, M.
Lecture Room 34
Chairperson: DAHLMAN, O.
- 10:30–10:45;** EGU2008-A-10703; IS57 - SM24/AS4.04-1FR2O-001
Hawkins, W.
Ground Based Nuclear Explosion Monitoring Research & Engineering
- 10:45–11:00;** EGU2008-A-09786; IS57 - SM24/AS4.04-1FR2O-002
Nikkinen, M.T.
International Scientific Studies of the Implementation of the CTBT Verification System (CTBT-ISS)
- 11:00–11:30;** EGU2008-A-06006; IS57 - SM24/AS4.04-1FR2O-003
B. Stump, B.; C. Hayward, C.; Kim, T.S.; Burlacu, R.; Pankow, K.
Combined Interpretation of Seismic and Infrasound Data for Source Characterization and Propagation Path Assessment at Regional Distances (solicited)
- 11:30–11:45;** EGU2008-A-11806; IS57 - SM24/AS4.04-1FR2O-004
Joswig, M.
The OSI SWE07 experiment of CTBTO: Processing microearthquakes ML –1.0 in an industrial environment
- 11:45–12:00;** EGU2008-A-03844; IS57 - SM24/AS4.04-1FR2O-005
Evers, L.G.; De Plaa, J.; Gibbons, S.; Kvaerna, T.; Simons, D.G.
Seismo-acoustic analysis of large explosions in Northwestern Europe
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- 12:00 LUNCH BREAK**
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- Chairperson: SCHURR, B.
- 13:30–13:45;** EGU2008-A-09155; IS57 - SM24/AS4.04-1FR3O-001
Drob, D.P.; Garces, M.; Hedlin, M.; Brachet, N.
Temporal Morphology of Infrasound Propagation
- 13:45–14:00;** EGU2008-A-08285; IS57 - SM24/AS4.04-1FR3O-002
Ceranna, L.; Le Pichon, A.; Blanc, B.
Microbarom signals recorded in Antarctica - A measure for sudden stratospheric warming?
- 14:00–14:15;** EGU2008-A-03035; IS57 - SM24/AS4.04-1FR3O-003
Prior, MK
A test to identify signals associated with underwater explosions
- 14:15–14:30;** EGU2008-A-10072; IS57 - SM24/AS4.04-1FR3O-004
Barth, A.; Jahnke, G.
The 2006 North Korean nuclear test - analysis of the explosive component using moment tensor inversion based on a 3D earth model
- 14:30–14:45;** EGU2008-A-00732; IS57 - SM24/AS4.04-1FR3O-005
Peters, J.; Kalinowski, M.
Application of the isotopic ratio based method for discrimination between nuclear tests and nuclear reactors on various data sets

14:45–15:00; EGU2008-A-11835; IS57 - SM24/AS4.04-1FR3O-006
Becker, A.; Wotawa, G.; Ringbom, A.; Saey, P.R.J
Backtracking of noble gas measurements taken in the aftermath of the announced October 2006 event in North Korea by means of the PTS methods in nuclear source estimation and reconstruction

15:00 COFFEE BREAK

Chairperson: BECKER, A.

15:30–16:00; EGU2008-A-08728; IS57 - SM24/AS4.04-1FR4O-001
Galmarini, S.
Multi model ensemble forecasting for emergency support: latest progress in the ENSEMBLE experience (solicited)

16:00–16:15; EGU2008-A-03591; IS57 - SM24/AS4.04-1FR4O-002
Wotawa, G.; Becker, A.
Towards an operational CTBTO-WMO Atmospheric Backtracking Response system for Nuclear Test-Ban Treaty Monitoring

16:15–16:30; EGU2008-A-08534; IS57 - SM24/AS4.04-1FR4O-003
Saey, P.R.J
The influence of nuclear facilities on the global radionuclide background

16:30–16:45; EGU2008-A-00730; IS57 - SM24/AS4.04-1FR4O-004
Tuma, M.; Kalinowski, M.
Enhancing CTBT verification through a global radionuclide emission inventory for nuclear power plants

16:45–17:00; EGU2008-A-07898; IS57 - SM24/AS4.04-1FR4O-005
Riechmann, B.; Kalinowski, M.
Implications of Xe-emissions from medical isotope production

17:00 COFFEE BREAK

Chairperson: KALINOWSKI, M.

17:30–17:45; EGU2008-A-03674; IS57 - SM24/AS4.04-1FR5O-001
Wotawa, G.; Becker, A.; Kalinowski, M.; Saey, P.
Computation and Analysis of the global distribution of the Radionuclide Background based on an Emission inventory of Nuclear Power Plants and other known major sources

17:45–18:00; EGU2008-A-06323; IS57 - SM24/AS4.04-1FR5O-002
Seibert, P.; Skomorowski, P
Atmospheric transport modelling for the Schauinsland station: impact of resolution of meteorological fields and conclusions for CTBT monitoring

18:00–18:15; EGU2008-A-03482; IS57 - SM24/AS4.04-1FR5O-003
Hebel, S.; Kalinowski, M. B.
Genesis and equilibrium of natural lithospheric radionuclide and its influence on CTBT-compliant subsurface noble gas samples

18:15–18:30; EGU2008-A-01924; IS57 - SM24/AS4.04-1FR5O-004
Dubasov, Yu.
Underground nuclear explosions and release of radioactive noble gases

18:30–18:45; EGU2008-A-08595; IS57 - SM24/AS4.04-1FR5O-005
Zaehring, M.
Site specific frequency distributions of xenon measurements at IMS stations

18:45–19:00; EGU2008-A-11914; IS57 - SM24/AS4.04-1FR5O-006
Auer, M.; Schlosser, C.; Sartorius, H.
Radionuclide measurements in regions with multiple sources

19:00 END OF SESSION
