

EGU General Assembly 2011

Programme Group Programme

G – Geodesy

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Monday, 04 April

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

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

Room: 18

Chairperson: S. Zerbini and D. Mencin

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

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

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

Room: 26

Chairperson: n.n.

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

LUNCH BREAK

Chairperson: n.n.

- 13:30–13:45 EGU2011-11252
Antonino D'Alessandro, Gianpaolo Cecere, Alessandro Amato, and Giulio Selvaggi
Improving the location performance of a seismic network through the SNES method
- 13:45–14:00 EGU2011-5077
Adrien Oth, Maren Böse, Friedemann Wenzel, Nina Köhler, and Mustafa Erdik
Evaluation and optimization of seismic networks for earthquake early warning - The case of Istanbul (Turkey)
- 14:00–14:15 EGU2011-9022
Christos Evangelidis, Nikolaos Melis, and Ioannis Kalogeras
Monitoring broadband seismic noise in the Hellenic Unified Seismic Network (HUSN)

- 14:15–14:30 EGU2011-9232
Robert Busby, Frank Vernon, Robert Newman, and Katrin Hafner
 EarthScope's Transportable Array: Concepts and Practice in Managing Quality Control for Seismic Networks
- 14:30–14:45 EGU2011-13202
Reinoud Sleeman, Torild van Eck, and Gert-Jan van den Hazel
 ORFEUS Data Center: addressing Quality Control to obtain high quality seismic waveform data for research.
- 14:45–15:00 EGU2011-8460
Kent Anderson, Peter Davis, and Lind Gee
 The GSN Data Quality Initiative

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

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

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY660 EGU2011-9484
Katrin Hafner, Robert W. Busby, and Robert Woodward
 EarthScope's Transportable Array: Current State of Evolution
- XY661 EGU2011-9581
Relu Burlacu and the UUSS Team
 Utah's Regional/Urban ANSS Seismic Network—Integrated Multifaceted Monitoring
- XY662 EGU2011-10145
Damiano Pesaresi, Pier Luigi Bragato, Angela Saraò, Paolo Di Bartolomeo, Milton Percy Plasencia Linares, and Giorgio Duri
 Improving the seismic monitoring of North-eastern Italy: the state of the art of the North-eastern Italy (NI) Seismic Network run by OGS
- XY663 EGU2011-12781
Luigi Abruzzese, Gianpaolo Cecere, Alberto Delladio, Giovanni De Luca, Alessandro Marchetti, Salvatore Mazza, and Franco Mele
 The INGV Mobile Telemetered Network (Re.Mo.Tel.): long-term monitoring analysis.
- XY664 EGU2011-11943
Vincenzo Cardinale, Angelo Castagnozzi, Gianpaolo Cecere, Ciriaco D'Ambrosio, Luigi Falco, Antonino Memmolo, Felice Minichiello, and Luigi Zarrilli
 A new integrated seismic and GPS mobile network - (test site:
- XY665 EGU2011-6586
 Liliya Dimitrova, **Dimcho Solakov**, Svetlana Nikolova, Stoyan Stoyanov, Stela Simeonova, Leonid Zimakov, and Leonid Khaikin
 Bulgarian seismological network
- XY666 EGU2011-13566
Can Zülfikar, Hakan Alcik, Aydin Mert, and Mustafa Erdik
 The Strong Motion Networks in Istanbul Metropolitan
- XY667 EGU2011-10705
Eser Cakti, Murat Bikce, Oguz Ozel, Cemal Genes, Selcuk Kacin, and Yavuz Kaya
 Antakya basin strong ground motion network
- XY668 EGU2011-9488
Reda Abdel-Fattah, Abdullah Al-Enezi, Farah Al-Jerri, Sheikh Abdul Majeed Ahmad, and Leonid Zimakov
 Kuwait National Seismic Network: Performance and Future Expansion
- XY669 EGU2011-6927
Ludger Kueperkoch, Thomas Meier, Andrea Bruestle, Jimin Lee, Wolfgang Friederich, and The Egelados Working Group
 Automated P- and S-phase arrival time estimation at local and regional distances
- XY670 EGU2011-6950
Maria-Theresia Apoloner, Ewald Brückl, Johanna Brückl, Walter Loderer, Stefan Mertl, and Bernd Schurr
 Location performance of the ALPAACT seismic network
- XY671 EGU2011-8733
Giovanni Romeo
 Whales watching
- XY672 EGU2011-9645
Juan Reyes, Gert-Jan van den Hazel, Frank Vernon, and Robert Newman
 Moment Tensor code for the Antelope Environmental Monitoring System

- XY673 EGU2011-6249
Jörn Groos and Joachim Ritter
Evaluation of the seismic noise conditions by statistical time series classification for site selection in densely-populated areas
- XY674 EGU2011-13605
Eser Cakti, **Ebru Harmandar**, and Erdal Safak
Wave propagation in downtown Istanbul deduced from earthquake records
- XY675 EGU2011-3801
Juan Reyes, Robert Newman, Frank Vernon, and Jamison Steidl
Web-based display and interaction with high density waveform data recorded by seismic networks as a tool for network diagnostics: the Waveform Server
- XY676 EGU2011-13441
Gert-Jan van den Hazel, **Reinoud Sleeman**, Torild van Eck, Luca Trani, and Alessandro Spinuso
Data and related products available at the Orfeus Data Center - the how and what
- XY677 EGU2011-6264
Jan Michálek, **Jana Doubravová**, and Stefan Mertl
Usage of SEISMON within the WEBNET seismic network
- XY678 EGU2011-11615
Ruben Luis, Jens Havskov, Lars Ottemöller, Peter Voss, and Teresa Ferreira
Integrated Access to miniSEED Archives Using SEISAN Earthquake Analysis Software
- XY679 EGU2011-6190
Felix Borleanu, Mihaela Popa, Mircea Radulian, and Shirley Baher
Calibration of BURAR (Romania) seismic array to estimate location and magnitude for the events occurred in the East and Southeast part of the array

G4.1 – Satellite Gravimetry: GRACE, GOCE and Future Missions – Orals

Convener: Thomas Gruber | Co-Conveners: Richard Biancale, Frank Flechtner, Torsten Mayer-Gurr

Room: 18

Chairperson: n.n.

- 08:30–08:45 EGU2011-1534
Srinivas Bettadpur, Byron Tapley, Michael Watkins, and Flechtner Frank
GRACE Mission: Assessments of Recent Developments and Future Plans
- 08:45–09:00 EGU2011-2926
Christoph Dahle, Christian Gruber, Frank Flechtner, Karl-Hans Neumayer, Ilias Daras, and Rolf König
The New GFZ EIGEN-GRACE06S Gravity Field Model Time Series
- 09:00–09:15 EGU2011-3803
Jennifer Bonin and Don Chambers
Evaluation of High-Frequency Oceanographic Signal in ITG-Grace2010 Using Altimetry
- 09:15–09:30 EGU2011-12619
Minkang Cheng, John Ries, and Byron Tapley
Supplementing the GRACE Mission with Time Variable Gravity Variations from Satellite Laser Ranging
- 09:30–09:45 EGU2011-5068
Michael Watkins, Frank Flechtner, and Byron Tapley
Status of the GRACE Follow-On Mission
- 09:45–10:00 EGU2011-12867
Benjamin Sheard, Christoph Mahrtdt, Gunnar Stede, Oliver Gerberding, Nils Brause, Vitali Mueller, Marina Dehne, Gerhard Heinzel, and Karsten Danzmann
Inter-satellite laser ranging instrument for GRACE follow-on

COFFEE BREAK

Chairperson: Thomas Gruber

- 10:30–10:45 EGU2011-1101
Siavash Iran Pour, Tilo Reubelt, Matthias Weigelt, and Nico Sneeuw
Comparison of full-repeat and sub-cycle solutions in gravity recovery simulations of a GRACE-like mission
- 10:45–11:00 EGU2011-11786
Rune Floberghagen, Michael Fehringer, Christoph Steiger, Andrea da Costa, Daniel Lamarre, and Björn Frommknecht
GOCE: mission status at the start of the extended mission

- 11:00–11:15 EGU2011-6286
Claudia Stummer, Christian Siemes, Thomas Fecher, and Roland Pail
 Improvements in the GOCE Level 1b Gradiometer Processing
- 11:15–11:30 EGU2011-5687
Per Knudsen, Rory Bingham, Ole Andersen, and Jerome Benveniste
 Enhanced Mean Dynamic Topography and Ocean Circulation Estimation using GOCE Preliminary Models
- 11:30–11:45 EGU2011-11287
Torsten Mayer-Gurr
 Gravity field determination by GOCE accelerometer observations
- 11:45–12:00 EGU2011-11259
Markus Antoni, Wolfgang Keller, and Matthias Weigelt
 Along-track gradiometry with GRACE and GOCE

LUNCH BREAK

Chairperson: Torsten Mayer-Gurr

- 13:30–13:45 EGU2011-1346
Roland Pail, Helmut Goiginger, and Adrian Jäggi
 Can GOCE help to improve temporal gravity field models ?
- 13:45–14:00 EGU2011-5708
Hassan Hashemi Farahani and Pavel Ditmar
 Added value of the GOCE satellite data to recovery of time-varying gravitational field
- 14:00–14:15 EGU2011-10571
Helmut Goiginger, Daniel Rieser, Torsten Mayer-Guerr, Roland Pail, Wolf-Dieter Schuh, Adrian Jäggi, Andrea Maier and the GOCO Consortium Team
 The combined satellite-only global gravity field model GOCO02S
- 14:15–14:30 EGU2011-6174
 Gerhard Beutler, **Adrian Jaeggi**, Ulrich Meyer, Lars Prange, Heike Bock, Rolf Dach, and Leos Mervart
 Gravity Field Determination at AIUB: From CHAMP and GRACE to GOCE
- 14:30–14:45 EGU2011-3242
Christoph Förste, Sean Bruinsma, Richard Shako, Jean-Charles Marty, Frank Flechtner, Oleg Abrikosov, Christoph Dahle, Jean Michel Lemoine, Hans Neumayer, Richard Biancale and the EIGEN Team
 EIGEN-6 - A new combined global gravity field model including GOCE data from the collaboration of GFZ Potsdam and GRGS Toulouse
- 14:45–15:00 EGU2011-6633
Thomas Fecher, Roland Pail, and Thomas Gruber
 Combined global gravity field determination by using terrestrial and satellite gravity data

G4.1 – Satellite Gravimetry: GRACE, GOCE and Future Missions – Posters

Convener: Thomas Gruber | Co-Conveners: Richard Biancale, Frank Flechtner, Torsten Mayer-Gurr

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY180 EGU2011-7824
Martin Horwath, Jean-Michel Lemoine, Richard Biancale, and Stéphane Bourgogne
 Improvement of GRACE solutions and of inferred mass variations after mitigating the effect of Level-1B (Release-1) K-band alignment biases
- XY181 EGU2011-8193
Ulrich Weinbach and Steffen Schön
 Improved GRACE kinematic orbit determination using GPS receiver clock modeling
- XY182 EGU2011-5632
Hassan Hashemi Farahani and Pavel Ditmar
 Computing the Earth's mean gravitational field from the GRACE satellite data using the acceleration approach
- XY183 EGU2011-11417
Markus Antoni, Wolfgang Keller, and Matthias Weigelt
 Comparison of genetic algorithm and descend direction algorithm for SST data
- XY184 EGU2011-6385
Maria Karbon, Michael Schindelegger, Dudy Wijaya, Johannes Böhm, and Harald Schuh
 Issues related to the computation of atmospheric de-aliasing products

- XY185 EGU2011-11743
Anno Löcher, Jean-Claude Raimondo, Jürgen Kusche, Frank Flechtner, and Andreas Rathke
Scientific objectives and performance analysis for a next generation gravity mission
- XY186 EGU2011-11284
Pieter Visser, Michael Murböck, Tonie van Dam, Tilo Reubelt, Alberto Anselmi, Luca Massotti and the NGGM study Team
Scientific assessment of a Next Generation Gravity Mission
- XY187 EGU2011-11336
Michael Murböck, Thomas Gruber, and Roland Pail
Sensor requirements for a Next Generation Gravity Mission
- XY188 EGU2011-8417
Tilo Reubelt, Nico Sneeuw, Siavash Iran-Pour, Walter Fichter, and Marc Hirth
Sensitivity analysis of future satellite formations and configurations of them
- XY189 EGU2011-10497
Marc Hirth, Walter Fichter, **Tilo Reubelt**, Nico Sneeuw, and Siavash Iran-Pour
Performance Aspects of Future Gravity Mission Constellations
- XY190 EGU2011-12085
Bruno Christophe, Bernard Foulon, and Jean-Pierre Marque
Electrostatic accelerometers for future Earth gravity missions
- XY191 EGU2011-13114
Gunnar Stede, Benjamin Sheard, Gerhard Heinzel, and Karsten Danzmann
Laser interferometer development for a fast GRACE (Gravity Recovery and Climate Experiment) follow-on mission
- XY192 EGU2011-13175
Christoph Mahrdt, Benjamin Sheard, Oliver Gerberding, Nils Brause, Gerhard Heinzel, and Karsten Danzmann
Acquisition strategy for an inter-satellite laser interferometer
- XY193 EGU2011-13119
Marina Dehne, Benjamin Sheard, Michael Tröbs, Gerhard Heinzel, and Karsten Danzmann
Investigation of polarising optics in space-based laser interferometers
- XY194 EGU2011-9942
Reinhard Mayrhofer and Torsten Mayer-Gurr
Using relativistic frequency shift in multi-satellite gravity field missions
- XY195 EGU2011-4751
Bjoern Frommknecht, Rune Floberghagen, Pascal Gilles, Alberto Bigazzi, and Marco Meloni
GOCE PDGS Level 1b and Level 2 data processing status
- XY196 EGU2011-1431
Johannes Bouman and Martin Fuchs
Modelling and reducing systematic errors in the GOCE gravity gradients
- XY197 EGU2011-1122
Michal Sprlak, Christian Gerlach, and Bjørn Ragnvald Pettersen
Validation of the GOCE Level 2 gravity gradients by upward continuation: software testing and preliminary results for Norway
- XY198 EGU2011-3330
Heike Bock, Adrian Jäggi, and Ulrich Meyer
GOCE Precise Science Orbits
- XY199 EGU2011-3561
Ulrich Meyer, Heike Bock, Adrian Jaeggi, Jose van den IJssel, Pieter Visser, and Oliver Montenbruck
Issues of GOCE SSTI processing
- XY200 EGU2011-5850
Sean Bruinsma, Jean-Charles Marty, Georges Balmino, Christoph Foerste, Oleg Abrikosov, and Hans Neumayer
A GOCE-only gravity field model inferred from 6.7 months of data using the direct numerical method
- XY201 EGU2011-10063
Federica Migliaccio, **Mirko Reguzzoni**, Andrea Gatti, Fernando Sansò, and Matija Herceg
A GOCE-only global gravity field model by the space-wise approach
- XY202 EGU2011-1200
Wan Xiaoyun and Yu Jinhai
The recovery of Earth gravity field from GOCE data based on the invariants of the gravity gradients
- XY203 EGU2011-2102
Oliver Baur, Matthias Weigelt, Tilo Reubelt, and Nico Sneeuw
Towards an optimal GOCE-only gravity field solution: recovery of long-wavelength features via the acceleration approach
- XY204 EGU2011-1320
Thomas Gruber, Pieter Visser, Christian Ackermann, and Michael Hosse
Validation of newly released GOCE gravity field models

- XY205 EGU2011-12752
Gudmundur Valsson, Thorarinn Sigurdsson, **Jaakko Mäkinen**, and Veikko Saaranen
Tests of GOCE geopotential models using the GPS and levelling network of Iceland
- XY206 EGU2011-3719
Lin Wang, Wouter van der Wal, and Nico Sneeuw
GOCE Gravity Models Compared to EGM2008, GRACE and Ship Gravity Measurements
- XY207 EGU2011-11396
Silvia Becker, Jan Martin Brockmann, and Wolf-Dieter Schuh
The impact of a GOCE gravity field model on estimating the ocean's mean dynamic topography
- XY208 EGU2011-5733
Per Knudsen, Jerome Benveniste, and Goce Toolbox Team
GOCE User Toolbox and Tutorial
- XY209 EGU2011-3674
Vinca Rosmorduc, Jerome Benveniste, Emilie Bronner, and Sander Niemeijer
Basic Radar Altimetry Toolbox: tools and tutorial to use radar altimetry for geodesy
- XY210 EGU2011-3669
Vinca Rosmorduc, Jerome Benveniste, Emilie Bronner, Sander Niemeijer, Salvatore Dinardo, Bruno Manuel Lucas, and Didier Earith
Basic Radar Altimetry Toolbox: tools and tutorial to use radar altimetry for cryosphere
- XY211 EGU2011-9819
Ole Baltazar Andersen and Lars Stenseng
Short wavelength marine gravity field modeling from Cryosat-2. A new era in high resolution gravity field modeling?
- XY212 EGU2011-12084
Jan Martin Brockmann and Wolf-Dieter Schuh
Use of massive parallel computing libraries in the context of global gravity field determination
- XY213 EGU2011-6641
Prange Lars, Meyer Ulrich, Jäggi Adrian, and Beutler Gerhard
Temporal gravity field solutions at the AIUB
- XY214 EGU2011-9977
Andrea Maier, Oliver Baur, Walter Hausleitner, Eduard Höck, Sandro Krauss, Helmut Goiginger, Roland Pail, Adrian Jäggi, and Wolf-Dieter Schuh
Low-degree gravity field coefficients from SLR data for the new combined gravity field model GOCO02S
- XY215 EGU2011-984
Sayyed Amir Hossein Beheshty and Mahboobeh Hemmesi
A New Geoid Model for Iran based on the Combination of the Gravity and Recent GOCE and ASTER data.
- XY216 EGU2011-1214
Abdulaziz Alothman
Analysis of Gravimetric and GPS/BM derived Geoids for Saudi Arabia

G6.1/EG6 – Geodetic and Geodynamic Programmes of the Central Europe (co-organized) – Orals

Convener: Janusz Sledzinski | Co-Conveners: Jan Kostelecky, Tomasz Olszak

Room: 25

Chairperson: M. Mojzes, M. Barlik

- 08:30–08:45 EGU2011-2038
Matthias Becker, **Alessandro Caporali** and the The CEGRN Team
New challenges for the CEGRN
- 08:45–09:00 EGU2011-3999
Jan Hefty, Lubomira Gerhatova, Linda Hipmanova, Miroslava Igondova, and Branislav Droscak
Refinement of velocity field in Central Europe based on reprocessed permanent and epoch-wise GPS observations
- 09:00–09:15 EGU2011-4838
Jan Dousa and Pavel Vaclavovic
Results of the GNSS Reprocessing Effort at GOP
- 09:15–09:30 EGU2011-10115
Vladimír Schenk, Richard Pichl, Tomáš Marek, and Zdeňka Schenková
The horizontal strain field of the Bohemian Massif
- 09:30–09:45 EGU2011-8732
Reinhard Falk, **Hartmut Wziontek**, Jan Müller, Andreas Reinhold, Herbert Wilmes, Ludger Timmen, Andreas Engfeldt, Vojtech Pálinkás, and Jakub Kostelecký
The Regional International Comparison of Absolute Gravimeters in 2010 demonstrates the potential of the new gravity laboratory building in Wettzell

09:45–10:00 EGU2011-3302

Jaroslav Simek, Radovan Machotka, Jan Kostecky, and Pavel Novak

An Experimental Accuracy Assessment of the Disturbing Gravity Potential and its First and Higher order Derivatives

G6.1/EG6 – Geodetic and Geodynamic Programmes of the Central Europe (co-organized) – Posters

Convener: Janusz Sledzinski | Co-Conveners: Jan Kostecky, Tomasz Olszak

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: V. Palinkas, M. Wozniak

XY217 EGU2011-1900

Andrzej Araszkiewicz, **Janusz Bogusz**, Mariusz Figurski, and Karolina Szafranek

Centre of Applied Geomatics: scientific activities in the frame of EUREF Permanent Network

XY218 EGU2011-1903

Mariusz Figurski, **Janusz Bogusz**, Jaroslaw Bosy, Bernard Kontny, Andrzej Krankowski, and Pawel Wielgosz
"ASG+": project for improving Polish multifunctional precise satellite positioning system

XY219 EGU2011-1906

Janusz Bogusz and Marek Jarosinski

Regional 2D model of deformations in Central Europe from GNSS observations: general assumptions of project

XY220 EGU2011-4260

Paweł Trómiński, **Andrzej Fellner**, Jarosław Sulkowski, Adam Grzybowski, and Paweł Zadręga

Analysis of methods and algorithms for jamming and to prevent and counteract jamming the GPS signal

XY221 EGU2011-4414

Ivan Medved, Damir Medak, Bosko Pribicevic, and Almin Dapo

Multiple Criteria Analysis of Spatial-Temporal Information for a Preliminary Assessment of the Landslide Susceptibility for Environmental Protection in the Zagreb Region based on Geodynamic Network

XY222 EGU2011-5535

Raffaella Cefalo, Simone Maver, and Claudia Paparini

Analysis of Alert Messages formats for Environmental Disaster Management

XY223 EGU2011-6308

Marek Wozniak and Krzysztof Wozniak

Geodetic measuring methods and shape estimation of concrete thin shell surface

XY224 EGU2011-7186

Mieczysław Bakuła and **Renata Pelc-Mieczkowska**

Reliable Technology of GNSS/RTK Positioning in Severe Observational Conditions

XY225 EGU2011-11889

Tomasz Liwosz, Marcin Rajner, and Jerzy Rogowski

Site displacements detection caused by the flood 2010 in Poland

XY226 EGU2011-12145

Michał Mikołaj and **Marcel Mojzes**

Hydrological effects on absolute gravity measurements using the model GLDAS

XY227 EGU2011-1143

Adam Wolski and Andrzej Banachowicz

Booth's lemniscate and directional errors

XY228 EGU2011-6580

Radovan Machotka

Use of total station for precise astronomical positioning

XY229 EGU2011-4280

Janusz Walo, Andrzej Pachuta, **Dominik Próchniewicz**, Ryszard Szpunar, Tomasz Olszak, and Marcin Barlik

Geodynamical investigations in the Pieniny Mountain in 1994 - 2010

XY230 EGU2011-10702

Marcin Rajner and Jerzy Rogowski

Earth free oscillation measurements with LCR-ET 26 spring gravimeter

XY231 EGU2011-9685

Vojtech Pálinský and Jakub Kostecký

Accuracy of the Absolute Gravimeter FG5#215 and Some Aspects of Repeated Absolute Gravity Measurements

XY232 EGU2011-12428

Marcin Barlik, Tomasz Olszak, Andrzej Pachuta, and Dominik Próchniewicz

Long-standing absolute gravity changes at Polish fundamental gravimetric network

G6.2 – Borehole Geodesy – Orals

Convener: David Mencin | Co-Conveners: Alan Linde, Qiu Zehua

Room: 25

Chairperson: n.n.

- 10:30–10:45 EGU2011-1496
Qiu Zehua
 The observation of 4-gage borehole strainmeters in China
- 10:45–11:00 EGU2011-12685
Mike Jackson, David Mencin, Kathleen Hodgkinson, Adrian Borsa, Wade Johnson, Mike Gottlieb, and Elizabeth van Boskirk
 The UNAVCO Plate Boundary Observatory Borehole Network: A History and Update
- 11:00–11:15 EGU2011-9180
Selwyn Sacks, Alan Linde, Dannie Hidayat, and Stefanie Hautmann
 Borehole strainmeters in Montserrat: calibrations, analysis techniques and performance.
- 11:15–11:30 EGU2011-12686
David Mencin, Kathleen Hodgkinson, and Mike Jackson
 Hydrological Signals with Borehole Strainmeters: Hydrogeodesy
- 11:30–11:45 EGU2011-1866
Norio Matsumoto, Osamu Kamigaichi, Yuichi Kitagawa, Satoshi Itaba, and Naoji Koizumi
 Tidal Calibration of Borehole Strainmeter Using Green's Functions at the Deployment Depth
- 11:45–12:00 EGU2011-2014
Zuxi Ouyang, Jun Zhang, Tao Li, Zheng Chen, Liheng Wu, Jieshan Shi, Zhongrun Zhang, and Guosheng Fan
 Continuous Observation of Crustal Deformation with a New Borehole Multi-component Instrument

G6.2 – Borehole Geodesy – Posters

Convener: David Mencin | Co-Conveners: Alan Linde, Qiu Zehua

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY233 EGU2011-1819
Jing Zhang, Qi Liu, and Shunliang Chi
 Analysis on 4- component borehole Strainmeters data in China
- XY234 EGU2011-3080
 Niu Anfu, **Yan Wei**, and Zhang Lingkong
 Pre-seismic changes in ground tilt and strain associated with the 2010 Yushu earthquake
- XY235 EGU2011-3937
Ya-Ju Hsu
 Strain changes revealed in borehole strainmeter array, eastern Taiwan
- XY236 EGU2011-4545
Hiroshi Ishii and Yasuhiro Asai
 Development of stressmeter and observed stress data
- XY237 EGU2011-2172
Baohong Zhang and Qiu Zehua
 Three credible examples of major earthquakes' stress-strain precursors in China
- XY238 EGU2011-2316
 Tetsuo Takanami, Selwyn Sacks, **Alan Linde**, Hui Peng, and Genshiro Kitagawa
 Slow Slip Following the 2003 Tokachi-oki M8 Earthquake off Hokkaido
- XY239 EGU2011-2312
Alan Linde and Selwyn Sacks
 Determining Magma Reservoir Compressibility From Co-eruptive Strain Changes: Hekla and Montserrat
- XY240 EGU2011-14208
Matthew J. Roberts, Alan T. Linde, Kristín S. Vogfjörð, and Selwyn Sacks
 Forecasting Eruptions of Hekla Volcano, Iceland, using Borehole Strain Observations
- XY241 EGU2011-3624
Alexandre Canitano, Pascal Bernard, Alan Linde, Selwyn Sacks, and Frederick Boudin
 The Corinth Rift Laboratory (CRL) strainmeters: calibration and data analysis
- XY242 EGU2011-8895
Kathleen Hodgkinson, Dave Mencin, Adrian Borsa, Brent Henderson, and Mike Jackson
 PBO Borehole Strainmeter Earth Tide Measurements and Calibrations
- XY243 EGU2011-8928
 Adrian Borsa, **Kathleen Hodgkinson**, Dave Mencin, Warren Gallaher, Mike Gottlieb, Brent Henderson, Wade Johnson, Liz VanBoskirk, and Mike Jackson
 PBO Borehole Strainmeter Data Products and Data Quality Metrics

G6.3/EG7 – European cartographic heritage - historical maps in environmental geosciences (co-organized) – Posters

Convener: Gábor Timár | Co-Conveners: Jiri Cajthaml, Gabor Molnar, Vasile Craciunescu

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: G. Timár

- XY244 EGU2011-950
János Mészáros
The Danube Cadastre map system and its georeferencing method
- XY245 EGU2011-6834
Stefan Constantinescu and Liviu Giosan
Kunstenjeh Anchorage chart: Witnessing the birth of a new port
- XY246 EGU2011-7747
Filip Antoš, Milan Talich, and Ondřej Böhm
Digitizing of Old Maps and their Web Publication in digitizing centre of VUGTK
- XY247 EGU2011-8071
Jiri Cajthaml and Jakub Havlíček
Cartometric research of the Müller's maps of Bohemia and Moravia
- XY248 EGU2011-9404
Jiri Cajthaml and Libuse Vejrova
Visualization of cartometric characteristics of Müller's maps of Bohemia and Moravia
- XY249 EGU2011-10461
Valerio Baiocchi, Ketil Lelo, and Gábor Timár
Estimation of abridging Molodensky parameters to transform from old Italian reference systems to modern ones
- XY250 EGU2011-10638
Vasile Craciunescu and Constantin Nițu
Historical maps and spatial data infrastructures. Challenges and opportunities within the INSPIRE directive.
- XY251 EGU2011-11861
Gabor Molnar and Gabor Timár
Using of Grid Shift Binary (GSB) data to improve the geo-reference of the Third Military Survey of the Habsburg Empire
- XY252 EGU2011-13389
Ioan Rus, Ștefan Constantinescu, Gábor Timár, Ioan Stoian, and Vasile Craciunescu
The shaping of cadaster mapping in Romania

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

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

Room: 26

Chairperson: Torild van Eck

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

COFFEE BREAK

Chairperson: Massimo Cocco

10:30–10:45 EGU2011-6808

John Ludden, Henning Lorenz, and Luca Demicheli
A Geologic Baseline and research infrastructure as part EPOS

10:45–11:00 EGU2011-11941

Luisa Bastos, Jean-Mathieu Nocquet, and on behalf of WG4 Epos Team
Current status of the Geodetic Component of EPOS

11:00–11:15 EGU2011-8745

Salvatore Stramondo, Alain Arnaud, Roberto Cossu, Michael Eineder, Paolo Gamba, Steven Hosford, Riccardo Lanari, Luigi Fusco, and Eliana Li Santi
EPOS Satellite Information WG: technical activities and objectives

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

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

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Russ Evans

XY640 EGU2011-7830

Leo Kriegsman
Natural history collections and (meta)data: an outline of the infrastructure landscape

XY641 EGU2011-8320

Torild van Eck, Reinoud Sleeman, Gert-Jan van den Hazel, Alessandro Spinuso, Luca Trani and the ORFEUS/NERA/EIDA/VEBSN Team
ORFEUS: Seismological waveform data archiving and access in Europe: A NERA service activity

XY642 EGU2011-8487

Emily Delahaye, Dmitry Storchak, Istvan Bondar, and James Harris
International Seismological Centre (ISC): Mission and Status

XY643 EGU2011-8626

Nicola D'Agostino and the RING Working Group Team
The RING GPS network: a research geodetic infrastructure to study plate boundary deformation in the Central Mediterranean

XY644 EGU2011-8830

Josep Gallart and EPOS-Spain Working Group
EPOS-Spain Institutions and Research Infrastructures

XY645 EGU2011-9190

Wojciech Debski, Grzegorz Mutke, Janusz Mirek, Jerzy Suchcicki, Waldemar Jozwiak, Pawel Wiejacz, and Jacek Trojanowski
Polish Geophysical Solid Earth Infrastructure Contributing to EPOS- Current State

XY646 EGU2011-9481

Jochen Woessner, Domenico Giardini and the NERA-EFEHR Team
The European Facility for Earthquake Hazard and Risk (EFEHR): Remote Access to Hazard and Risk Products

XY647 EGU2011-9527

Kuvvet Atakan, Conrad Lindholm, Valerie Maupin, Lars Ottemöller, Mathilde B. Sørensen, Halfdan P. Kierulf, Jörg Ebbing, Tor Langeland, and Farrokh Nadim
The Arctic dimension of the European Plate Observing System (EPOS) and the Norwegian contribution

XY648 EGU2011-9637

Kristín Vogfjörð, Einar Kjartansson, Ragnar Sigbjörnsson, Símon Ólafsson, Benedikt Halldórsson, Freysteinn Sigmundsson, Sigrún Hreinsdóttir, and Gudmundur Valsson
Networking of Icelandic Geophysical Infrastructures

XY649 EGU2011-9799

Linus Kamb, Laurent Frobert, Gilles Mazet-Roux, and Remy Bossu
EMSC Earthquake Information Services: Remote Access to Earthquake Parametric Data and Products - a NERA service activity

XY650 EGU2011-9860

Linus Kamb, Laurent Frobert, Alessandro Spinuso, Luca Trani, Remy Bossu, and Torild van Eck
NERIES Seismology IT Infrastructure

- XY651 EGU2011-10879
Jan Zedník and Pavel Hejda
 CzechGeo/EPOS - Distributed system of the geophysical observations in the Czech Republic
- XY652 EGU2011-11856
 Marcello Martini, Sergio Gurrieri, and **Domenico Patanè**
 Volcano Monitoring of the Italian active Volcanoes
- XY653 EGU2011-11018
Filippos Vallianatos and the GSLab Team
 The Geophysics and Seismology Unit and the Hellenic Seismological Network of Crete (HSNC): An innovative infrastructure in the front of the Hellenic Arc.
- XY654 EGU2011-10966
Robert Barsch, Moritz Beyreuther, Lion Krischer, Tobias Megies, Yannik Behr, Conny Hammer, Martin van Driel, and Joachim Wassermann
 ObsPy: A Python Toolbox for Seismology/Seismological Observatories
- XY655 EGU2011-10786
Salvatore Mazza, Giampaolo Cecere, Alberto Delladio, Alfonso Mandiello, Lucia Margheriti, and Giulio Selvaggi
 The INGV National Earthquake Centre research infrastructure to study the plate boundary deformation in the Central Mediterranean.
- XY656 EGU2011-5593
Helle Pedersen and the RESIF and national French EPOS working groups Team
 The RESIF project: preparing a the French national infrastructure for EPOS
- XY657 EGU2011-9784
Angelo Strollo, Bertrand Delouis, Aladino Govoni, Sebastian Hainzl, Stephan Husen, Lucia Margheriti, Anne Paul, Catherine Pequegnat, and Monika Sobesiak
 Networking European Rapid response Networks
- XY658 EGU2011-10227
G  rard M. Chanteur, Maria-Teresa Capria, Walter Schmidt and the The EuroPlaNet/IDIS Team
 EuroPlaNet/IDIS, a scientific gateway for planetary sciences
- XY659 EGU2011-10914
Stefania De Zorzi, Robert Laurini, Gobe Hobona, Giovanni Rocca, Dolors Barrot, and Maria Pla
 Definition of a common INSPIRE-driven elevation model and its

Tuesday, 05 April

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

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

Room: 18

Chairperson: M. Meghraoui and P. Briole

- 08:30–08:45 EGU2011-12696
Andrew Hooper, David Bekaert, and Mahmut Arikan
 Radar interferometry for measuring regional-scale processes
- 08:45–09:00 EGU2011-12096
Ziyadin Cakir, Mustapha Meghraoui, Esra Cetin, Ahmet Akoglu, and Samir Belabbes
 Postseismic Hanging-wall Subsidence of the 2003 Zemmouri (Mw=6.9, Algeria) Thrust Earthquake From InSAR Time Series
- 09:00–09:15 EGU2011-11725
Jean-Mathieu Nocquet, Andrea Walpersdorf, François Jouanne, Frédéric Masson, Jean Chéry, and Philippe Vernant
 Slow deformation in the Western Alps from a decade of Continuous GPS measurements
- 09:15–09:30 EGU2011-13090
 Pierre Briole
 Ground deformation monitoring in the Corinth rift laboratory, Greece
- 09:30–09:45 EGU2011-4840
Athanassios Ganas, Kostas Chousianitis, George Drakatos, Marios Papanikolaou, Panagiotis Argyrakos, Maria Kolligri, Panagiota Petrou, Evagelia Batsi, and Christina Tsimi
 NOANET: High-rate GPS Network for Seismology and Geodynamics In Greece
- 09:45–10:00 EGU2011-2324
Ugur Dogan, Semih Ergintav, Baki Karaboce, Gokhan Arslan, Ayse Selendi (1), Deniz Oz, Cuneyt Aydin (1), Azer Ilgar, Rahsan Cakmak (2), Alpaz Belgen, Enver Sadikoglu, Eyup Bilgic, and Ahmet Direnc
 Long-term Crustal Deformations Based on Gravity and GPS Measurements (2006 - 2010) in Marmara Region, Turkey

COFFEE BREAK

Chairperson: R. Reilinger and A. Hooper

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

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

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

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

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

- XL184 EGU2011-1743
Hiromi Fujimoto, Motoyuki Kido, and Yukihito Osada
Some improvements in the GPS/Acoustic seafloor positioning
- XL185 EGU2011-2283
Simone Dellagnello and the SCF (INFN-LNF) Team
SCF-Test of LAGEOS and the GNSS for geodesy and navigation applications
- XL186 EGU2011-2540
Vadim Milyukov, Vladimir Zharov, Alexey Mironov, Mark Kaufman, and Dmitry Duev
Development of the Northern Caucasus GPS/GLONASS network: progress during 18 years (observations and results)
- XL187 EGU2011-2818
Yusaku Ohta, Tatsuya Kobayashi, and Satoshi Miura
Long term stabilities and its noise properties of the middle to long baseline RTK-GPS time series for the earthquake size rapid determination
- XL188 EGU2011-3180
Tim Wright, Hua Wang, **Carolina Pagli**, and Matthew Garthwaite
Mapping Tectonic Strain on a Global Scale with InSAR
- XL189 EGU2011-8862
M Meghan Miller
UNAVCO Event response capabilities: Four 2010 earthquakes that advanced hazards science
- XL190 EGU2011-11370
Graham Appleby, Georg Kirchner, Jan McGarry, Carey Noll, Erricos Pavlis, and Michael Pearlman
High Quality Products from Satellite Laser Ranging
- XL191 EGU2011-11708
Luisa Bastos, Machiel Bos, and Rui M.S Fernandes
An investigation of monument stability of GPS stations in Iberia
- XL192 EGU2011-13026
Machiel Bos, Odair Tavares, **Luís Bastos**, and Rui Fernandes
An online GPS time-series analysis provider at GEODAC
- XL193 EGU2011-227
Haluk Ozener, Asli Dogru, and Bulent Turgut
Contemporary Results of GPS Observations in Ismetpasa Creeping Region of North Anatolian Fault Zone (NAFZ), Turkey
- XL194 EGU2011-365
Radia Mir, Salem Kahlouche, and Said Touam
Crustal deformations using GPS data and the Kalman filter: preliminary results
- XL195 EGU2011-1378
Susanna Zerbin, Claudio Prati, Giovanni Cappello, Maddalena Errico, Fabrizio Novali, and Silvia Scirpoli
Combination of INSAR and GPS to measure ground motions and atmospheric signals
- XL196 EGU2011-2707
M. Ersen Aksoy, Mustapha Meghraoui, Matthieu Ferry, Ziyadin Çakır, and Gülsen Uçarku
Short-term and long-term slip rate estimations along the Ganos Fault using stream offsets and paleo-climatic changes (North Anatolian Fault, Turkey)
- XL197 EGU2011-3962
Stathis C. Stiros, Fanis Moschas, Lujia Feng, and Andrew V. Newman
Constraints to the 2008 Patras (Greece) seismic fault: Evidence from historical triangulation and morphotectonic data.
- XL198 EGU2011-4785
Stefano Tinti, Alberto Armigliato, and Gianluca Pagnoni
The role of GPS observations in a Tsunami Early Warning System suitable for near-shore tsunami detection and forecast.
- XL199 EGU2011-5439
Kamil Eren, Turgut Uzel, Engin Gulal, Ibrahim Tiryakioglu, Ahmet Anil Dindar, and Haluk Yilmaz
Tectonic Studies in Turkey Using CORS-TR Observations
- XL200 EGU2011-5777
Marc-Andre Gutscher
Tectonics of the Gibraltar subduction and its relation to recent kinematics
- XL201 EGU2011-6742
Matthias Becker, **Mohamed Saleh**, Mohamed Rashwan, Sayed Mohamed Abd el-Monem, Salah Mahmoud, Hassan Khalil, Awad Omran, and Mostafa Yousef
Regional and local deformation analysis results from the Nile River Valley and its relation to seismicity

- XL202 EGU2011-7357
Mohamed Chlieh, Hernando Tavera, Jean-Mathieu Nocquet, Juan-Carlos Villegas, Hugo Perfettini, and Jean-Philippe Avouac
 Interseismic Coupling maps in South America subduction zone as indicator of future large Megathrust Earthquakes
- XL203 EGU2011-8062
Joaquim Sousa, Luisa Bastos, Antonio Ruiz, Ramon Hanssen, and Andy Hooper
 Terrain Deformation Monitoring in Granada Basin Area Using Persistent Scatterers Interferometry (PSI)
- XL204 EGU2011-9179
Yasser Mahmoud, Frederic Masson, Mustapha Meghraoui, Ziyadin Cakir, Abd elmotaleb Alchalbi, Hakan Yavasoglu, Onder Yönlü, Mohamed Daoud, Semih Ergintav, and Sedat Inan
 GPS velocity field in SE Turkey and NW Syria derived from 2009 and 2010 measurements
- XL205 EGU2011-9721
Yüksel Altiner
 Another view on the study of Earth's crust deformations applied in Adriatic plate
- XL206 EGU2011-12464
Aggeliki Marinou, Xanthos Papanikolaou, Dimitris Paradissis, Dimitris Anastasiou, Vangelis Zacharis, Panayiotis Tzavaras, Kalliopi Papazissi, and Christiana Mitsakaki
 Estimating of tectonic velocities in the Ionian region.
- XL207 EGU2011-11998
Rui Fernandes, José Quembo, Jorge Miranda, and Damien Delvaux
 Present-Day Kinematics of Mozambique derived from Episodic GPS data
- XL208 EGU2011-12149
Robert King, Simon McClusky, Philippe Vernant, Semih Ergintav, Galaktion Hahubia, Fakhraddin Kadirov, Samir Mammadov, Ruben Stepanyan, Tamara Guseva, and Vadim Milyukov
 New GPS velocity field for the Arabian-Eurasian collision zone
- XL209 EGU2011-12720
Dimitris Anastasiou, Aggeliki Marinou, Xanthos Papanikolaou, Vangelis Zacharis, Dimitris Paradissis, Kalliopi Papazissi, and Christiana Mitsakaki
 Deformation studies using GPS data for South Peloponnisos
- XL210 EGU2011-12775
Juan Carlos Villegas Lanza, Jean-Mathieu Nocquet, Hernando Tavera, Mohamed Chlieh, and Francis Bondoux
 A new GPS velocity field from Central Peru to northern Ecuador
- XL211 EGU2011-8122
Oliver Boyd, Yuehua Zeng, and Leonardo Ramirez-Guzman
 Modeling surface deformation in the New Madrid seismic zone
- XL212 EGU2011-9330
Tilo Schöne, Julia Illigner, Cornelia Zech, Cecep Subarya, Pak Khafid, Wahyu Pandoe, Imam Mudita, and Roman Galas
 GNSS in Support of Sea Level Monitoring: Early Warning to Long-Term Corrections
- XL213 EGU2011-13129
David Mencin, Selwyn Sacks, Alan Linde, and Michael Gladwin
 Borehole Strainmeters and Natural Hazards

G5.1 – Monitoring and modelling of the ionosphere from space-geodetic techniques – Orals

Convener: Michael Schmidt | Co-Conveners: Mahmut Onur Karslioglu, ANDRZEJ KRANKOWSKI, Denise Dettmering, Pawel Wielgosz

Room: 17

Chairperson: Schmidt

- 15:30–15:45 EGU2011-4430
Manuel Hernández-Pajares, J.Miguel Juan, Jaume Sanz, Enric Monte, and Àngela Aragón
 Looking for efficient and accurate ways of computing the global ionospheric electron density distribution from huge amounts of GNSS observations
- 15:45–16:00 EGU2011-4605
Hanna Rothkaehl and Andrzej Krankowski
 Validation of GPS signals during geomagnetic disturbances
- 16:00–16:15 EGU2011-9508
Kuo-hsin Tseng, C.k. Shum, Michael Schmidt, Dieter Bilitza, Kai-chien Cheng, Chunli Dai, Attila Komjathjy, and Chungyen Kuo
 Regional Analysis of Ionosphere Observables from Multi-Geodetic Sensors
- 16:15–16:30 EGU2011-5235
Jann-Yenq Liu, Tie-Yue Liu, and Guey-Shin Chang
 Monitoring of the ionosphere by using FORMOSAT-3/COSMIC

16:30–16:45 EGU2011-3202

Christina Arras, Christoph Jacobi, Jens Wickert, Stefan Heise, and Torsten Schmidt

Temporal variability of sporadic E layer occurrence obtained from GPS radio occultation measurements

16:45–17:00 EGU2011-7324

Tatjana Gerzen, Volker Wilken, Norbert Jakowski, and Mainul Hoque

Reconstruction of the ionospheric 3D electron density distribution based on operational TEC estimations

G5.1 – Monitoring and modelling of the ionosphere from space-geodetic techniques – Posters

Convener: Michael Schmidt | Co-Conveners: Mahmut Onur Karslioglu, ANDRZEJ KRANKOWSKI, Denise Dettmering, Pawel Wielgosz

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Krankowski

XL214 EGU2011-2929

Lung-Chih Tsai, Chao-Han Liu, Ernest Macalalad, and Jyun-Ying Huang

GPS radio occultation ionospheric profile fitting and data quality examination using the empirical orthogonal function analysis

XL215 EGU2011-4054

Rafal Sieradzki, Andrzej Krankowski, Irk Shagimuratov, and Anna Krypiak-Gregorczyk

Near real-time monitoring of TEC fluctuations in northern hemisphere using GNSS permanent networks

XL216 EGU2011-4160

Anna Krypiak-Gregorczyk, Irina Zakharenkova, **Andrzej Krankowski**, Irk Shagimuratov, and Rafał Sieradzki
Analyses of the geomagnetic storm of October 11, 2008 using combined COSMIC, ground-based digisondes and GPS network data

XL217 EGU2011-5231

Chang-Moon Lee, **Jihye Won**, and Kwan-Dong Park

Algorithm Development to Generate Ionospheric Delays based on GPS Carrier Phase Measurements

XL218 EGU2011-5336

Xiaoya Wang and Guanghui Gao

GPS global TEC model based on parallel algorithm and DCB analysis

XL219 EGU2011-7675

Cemile Akpaca and Kutsal Bozkurt

Relationship Between Earthquake and Ionospheric TEC

XL220 EGU2011-8285

Onur Unver, Zehra Can, Engin Gulal, Kamil Eren, Turgut Uzel, and Kubilay Kutlu

Determination Of Ionospheric TEC Changes Using Cors-Tr Data

XL221 EGU2011-8498

Michael Schmidt, Urs Hugentobler, Norbert Jakowski, Denise Dettmering, Wenjing Liang, Marco Limberger, and Mohammed Hoque

Multi-scale model of the ionosphere from the combination of modern space-geodetic satellite techniques

XL222 EGU2011-8534

Michael Schmidt, Denise Dettmering, Wenjing Liang, and Robert Heinkelmann

Concepts for modeling VTEC as multi-scale representation

XL223 EGU2011-9871

Mahmut Onur Karslioglu and Murat Durmaz

Multivariate Adaptive Regression B-Splines for Regional VTEC Modeling

XL224 EGU2011-9969

Ewa Slominska and Anna Krypiak-Gregorczyk

Multi-instrumental studies on the Topside Ionosphere

XL225 EGU2011-11238

Andreja Susnik, Biagio Forte, and Luca Spogli

Morphological response of GPS derived ionospheric scintillation activity to disturbed magnetic conditions in the European auroral sector

XL226 EGU2011-11339

M. Mahdi Alizadeh, Harald Schuh, Michael Schmidt, Manuel Hernandez-Pajares, and Angela Aragon-Angel
Calibrating GNSS VTEC Values by Satellite altimetry and Formosat-3/COSMIC Data using Parameter Estimation Technique

XL227 EGU2011-12602

Nina Magnet and Robert Weber

GIOMO - Evaluation of Near Real-Time Ionospheric Models

G5.2/AS4.18 – Atmospheric Water Vapour Retrieval by Space Geodetic Techniques (co-organized) – Orals

Convener: Rosa Pacione | Co-Conveners: Henrik Vedel

Room: 17

Chairperson: Rosa Pacione

- 13:30–13:45 EGU2011-4222
Siebre de Haan
Impact of GPS ZTD on Rainfall Estimates in an Hourly Update Cycle of a Numerical Weather Prediction Model
- 13:45–14:00 EGU2011-10409
Stefan Heise, Georg Beyerle, Grzegorz Michalak, Torsten Schmidt, Jens Wickert, and Florian Zus
GPS radio occultation at GFZ: Status and recent results from TerraSAR-X and TanDEM-X
- 14:00–14:15 EGU2011-1824
Thomas Hobiger, Youhei Kinoshita, Masato Furuya, Ryuichi Ichikawa, Yasuhiro Koyama, and Tetsuro Kondo
InSAR troposphere delay corrections from numerical weather models - status quo and future directions
- 14:15–14:30 EGU2011-13515
Antonio Martellucci, **Paolo Tortora**, Ermanno Fionda, Susanne Crewell, Gunnar Elgered, Alberto Graziani, Vinia Mattioli, and Per Jarlemark
Water vapour assessment for the characterisation of radiowave propagation in Satellite Communication systems and Radio Science Experiments
- 14:30–14:45 EGU2011-1312
Dennis Kilian
Real-time Water-Vapor and TEC calculation using GNSS reference station infrastructure
- 14:45–15:00 EGU2011-6159
Michael Bender, Xingxing Li, Galina Dick, Florian Zus, Markus Ramatschi, Jan Dousa, Junping Chen, Maorong Ge, and Jens Wickert
GPS-derived Atmospheric Water Vapour at GFZ: from Near Real-Time to Real-Time Processing
- 15:00–15:15 EGU2011-8121
Vahab Nafisi, Matthias Madzak, Andrea Pany, Johannes Böhm, Harald Schuh, and Alireza Azmoude Ardalan
Ray-traced tropospheric slant delays from numerical weather models in VLBI analysis

G5.2/AS4.18 – Atmospheric Water Vapour Retrieval by Space Geodetic Techniques (co-organized) – Posters

Convener: Rosa Pacione | Co-Conveners: Henrik Vedel

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Henrik Vedel

- XL228 EGU2011-6705
Gemma Bennitt and Thomas Levick
The impact of assimilating zenith total delay measurements from Ground-based GNSS receivers in the Met Office numerical weather prediction UK model
- XL229 EGU2011-2742
Guergana Guerova, June Morland, and Tzvetan Simeonov
Water vapor anomaly during the 2003 and 2007 heat waves in Switzerland and Bulgaria
- XL230 EGU2011-7969
Hugues Brenot, Jean Neméghaire, Laurent Delobbe, and Nicolas Clerbaux
Development of deep convection and identification of preliminary signs in water vapour structures by GNSS
- XL231 EGU2011-2139
Karolina Szafranek, Krzysztof Kroszczynski, Mariusz Figurski, Janusz Bogusz, and Pawel Kaminski
Investigation of temporal and spatial distribution of slant delay for low elevation angles on the basis of mesoscale weather model data
- XL232 EGU2011-5686
Henrik Vedel, Siebre de Haan, Jonathan Jones, Gemma Bennitt, and Dave Offiler
E-GVAP, the EIG EUMETNET GNSS Water Vapour Programm
- XL233 EGU2011-5623
Henrik Vedel, **Rosa Pacione**, Brigida Pace, Siebre de Haan, Roberto Lanotte, and Francesco Vespe
On the fly quality evaluation of GNSS ZTD estimates
- XL234 EGU2011-4871
Jan Dousa
Global Near Real-time GNSS Troposphere Product
- XL235 EGU2011-9061
Eric Pottiaux and Carine Bruyninx
GNSS Near Real-Time Zenith Path Delay Estimations at ROB: Validation by Inter-technique Comparisons

- XL236 EGU2011-7840
Tong Ning, Rüdiger Haas, and Gunnar Elgered
Assessment of the zenith wet delay and horizontal delay gradients derived from collocate techniques
- XL237 EGU2011-1034
Ming Shangguan, Michael Bender, Jens Wickert, Ulrich Löhnert, and Susanne Crewel
Comparison of atmospheric water vapor from GPS and WVR
- XL238 EGU2011-12348
Michał Kruczyk, Tomasz Liwosz, and Jerzy Rogowski
IPW from various sources: GPS tropospheric solution, sunphotometer, radiosounding and numerical weather prediction model - conformity analysis
- XL239 EGU2011-12266
Ian Thomas, Matt King, Nigel Penna, and Peter Clarke
An up to date GPS derived precipitable water vapor (PW) dataset for Antarctica, and the effect of the GPS analysis strategy on PW retrievals
- XL240 EGU2011-5212
Jihye Won, Kwan-Dong Park, Du-Sik Kim, and **Hye-In Kim**
A preliminary study for creating precipitable water vapor maps using GPS
- XL241 EGU2011-11758
Francesco Vespe, **Roberto Tolve**, Catia Benedetto, and Patrizia Sacco
Validation of atmospheric profiles retrieved with GPS Radio Occultation observations applying numerical inversion techniques
- XL242 EGU2011-399
Namaoui Houaria
Estimation of tropospheric parameter with GPS data
- XL243 EGU2011-2592
Steffen Schön, Xing Fang, and Ulrich Weinbach
Can line-of-sight information be recovered from GPS double-differences ? - Alber's approach revisited
- XL244 EGU2011-1442
Michael Bender, Galina Dick, Ming Shangguan, Jens Wickert, and Armin Raabe
GPS Tomography: Validation of the Reconstructed Humidity Fields
- XL245 EGU2011-10240
Jan Kap?on, Witold Rohm, Jaros?aw Bosy, and Jan Sierny
NRT GNSS data processing service for regional GNSS tomography
- XL246 EGU2011-12349
Witold Rohm, Jan Sierny, **Jan Kap?on**, and Jaros?aw Bosy
In-situ meteorological data interpolation and homogenization procedure for NRT GNSS tomography

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

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

Room: 27

Chairperson: Sierd Cloetingh

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

Chairperson: Sean Willett

- 13:30–13:45 EGU2011-7384
Zoltan Erdos, Ritske S. Huismans, and Peter van der Beek
 Evaluating balanced section restoration with thermochronological data
- 13:45–14:00 EGU2011-5849
Charlotte Fillon, Luis Barbero, David Pedreira, Cecile Gautheron, and Peter van der Beek
 Thermochronological evidence for significant Cenozoic exhumation in the Eastern Cantabrian Mountains
- 14:00–14:15 EGU2011-4063
Suzon Jammes and Ritske S. Huismans
 Influence of structural inheritance during inversion tectonics at lithospheric scale: the example of Pyrenean-Cantabrian mountain belt
- 14:15–14:30 EGU2011-2763
Javier Fernández-Lozano, Dimitrios Sokoutis, Ernst Willingshofer, Alfonso Muñoz-Martín, Gerardo De Vicente-Muñoz, and Sierd Cloetingh
 Integration of gravity and topography analyses in analogue modelling: understanding lateral strength variations in Iberia and their influence on intra-plate mountain building.
- 14:30–14:45 EGU2011-5928
Enric Suades Sala and Ana Crespo Blanc
 Onshore study of syn-orogenic olistostromic deposits in the Gibraltar Arc: a tool to reveal mountain front uplift
- 14:45–15:00 EGU2011-8617
Kurt Stüwe, Nicolas Legrain, Andreas Wölfler, Istvan Dunkl, and Todd Ehlers
 New U-He ages for the Eastern Alps

Chairperson: Paola Campus

- 15:30–15:45 EGU2011-10128
Andreas Wölfler, Walter Kurz, Harald Fritz, and Kurt Stüwe
 Lateral Extrusion in the Eastern Alps: Time constraints and plate tectonic controls during Oligocene to Miocene times
- 15:45–16:00 EGU2011-12938
Michał Smigielski, Piotr Krzywiec, Katarzyna Pisaniec, Finlay Stuart, Cristina Persano, Hugh Sinclair, Nestor Oszczyk, and Katarzyna Sobien
 Inversion of the Central Carpathian Basin constrained using low temperature thermochronology and its implications for Carpathian orogenesis.
- 16:00–16:15 EGU2011-1287
Gilles Lericolais, Julien Bourget, Paul Jermannaud, Stephan Jorry, Thierry Mulder, and Irina Popescu
 The active sink of the Danube river Basin: The Danube deep-sea fan
- 16:15–16:30 EGU2011-11100
David Fernández-Blanco and Giovanni Bertotti
 Neogene vertical movements in the Mut-Ermenek Basin, south Turkey: New insights from structural studies
- 16:30–16:45 EGU2011-1691
Giuditta Radeff, Domenico Cosentino, Taylor F. Schildgen, Güldemin Darba?, and Kemal Gürbüz
 Differences and similarities in the Late Miocene geohistory of the Mut and Adana basins (southern Turkey): a record of surface uplift of the southeast margin of the Central Anatolian plateau
- 16:45–17:00 EGU2011-625
Stella Lucifora, Francesca Cifelli, Massimo Mattei, Andrew Roberts, Domenico Cosentino, Paola Cipollari, and Elsa Gliozzi
 Inconsistent magnetic polarities from Upper Messinian greigite-bearing sediments from Adana Basin (Southern Turkey)

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

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

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Sierd Cloetingh

- XY725 EGU2011-7682
Britta Wawerzinek, Corinna Roy, and Joachim Ritter
 Teleseismic Shear-Wave Analysis in Southern Norway

- XY726 EGU2011-1114
Jörg Ebbing, Richard W. England, Toivo Korja, and Maxim Smirnov
 Insights into the lithospheric structure beneath the Central Scandes from combining different geophysical observations
- XY727 EGU2011-1223
Trond Kvarven, Wanda Stratford, and Rolf Mjelde
 TopoScandiaDeep: Results from an OBS survey off Møre, mid Norway
- XY728 EGU2011-3144
Babak Hejrani, Bo Holm Jacobsen, Anna Bondo Medhus, and Niels Balling
 Resolving a deep lithosphere transition between Southern Norway and Southern Sweden
- XY729 EGU2011-9456
Sofie Gradmann, Joerg Ebbing, and Javier Fullea
 Tracing lithospheric mantle variations underneath Norway and Sweden - An integrated modelling approach with LitMod3D
- XY730 EGU2011-10339
Christian Weidle, Niels Balling, Andy Frassetto, Bo Holm Jacobsen, Andreas Köhler, Valérie Maupin, Anna Bondo Medhus, Joachim Ritter, and Britta Wawerzinek
 Upper mantle structure of southwestern Scandinavia reveals the rim of cratonic Baltica
- XY731 EGU2011-6921
 Monika Dec, **Edward Perchuc**, and Blanka Nita
 A new model of upper mantle structure beneath Polish part of the Precambrian East European Craton
- XY732 EGU2011-9842
Shalaleh Mohammadi, Thomas Geenen, Arie van den Berg, and Wim Spakman
 Topography response to instantaneous mantle dynamics of the European-Mediterranean region
- XY733 EGU2011-2109
 Lapo Boschi, **Claudio Faccenna**, and Thorsten Becker
 Mantle structure and dynamic topography in the Mediterranean Basin
- XY734 EGU2011-3807
Nuno Afonso Dias, Fernando Carrilho, Christian Haberland, Joao Fonseca, Mourad Bezzeghoud, Susana Custodio, Antonio Villasenor, Conceicao Neves, Rui Fernandes and the WILAS Team
 Closing the Seismic Coverage on Western Iberia: Project WILAS
- XY735 EGU2011-3860
Juanjo Ledo, Alan G Jones, Agata Siniscalchi, Joan Campanyà, Duygu Kiyan, Gerardo Romano, Mohamed Rouai and the TopoMed MT Team
 The TopoMed broad band magnetotelluric experiment: crustal images of the Atlas mountains of Morocco.
- XY736 EGU2011-4181
Benjamin Guillaume, Francesca Funiciello, Claudio Faccenna, and Carlo Doglioni
 Effects of background mantle flow on subduction dynamics: insights from laboratory models
- XY737 EGU2011-6456
Duygu Kiyan, Alan G. Jones, Javier Fullea, Colin Hogg, Juanjo Ledo, Agata Siniscalchi, Joan Campanyà, Gerardo Romano, Pierpaolo Moretti, Mohamed Rouai and the The TopoMed MT Team
 Lithospheric-scale geometry of the Atlas Mountains of Morocco revealed by magnetotelluric surveying
- XY738 EGU2011-4217
Maria Neves, Filipe Rosas, Pedro Terrinha, Luis Matias, Marilyn Moulin, and Joaquim Luis
 Gravitational stresses and tectonic loading near shore: insights from the Gulf of Cadiz.
- XY739 EGU2011-7006
 Giorgi Khazaradze, **Eva Asensio**, Anna Echeverria and the Topo-Iberia GPS Team
 Crustal deformation studies in Iberia: Topo-Iberia CGPS network
- XY740 EGU2011-8420
Antonio Villasenor, Sébastien Chevrot, Mimoun Harnafi, Josep Gallart, and Topo-Iberia Seismic Working Group
 Seismic structure beneath the Gibraltar Arc, Western Mediterranean region using broadband data from IberArray and permanent networks
- XY741 EGU2011-8811
Jaume Pous, Galindo-Zaldívar, J Ruiz-Constán, A Anahnah, F, Asensio, E Seillé, H, Ibarra, P Pedrera, A, Chalouan, A Benmakhlouf, M Ahmamou, M, Ruano, P López-Garrido, AC Sanz de Galdeano, C, Muñoz, A Olaiz, A De Vicente, G, and González-Cortina, JM Gallastegui, J Pedreira, D
 On-going Magnetotelluric (MT) activities within the Topo-Iberia project
- XY742 EGU2011-8948
Jan-Philipp Schmoldt, Alan G. Jones, Mark Muller, Duygu Kiyan, Colin Hogg, and Oriol Rosell Novel
 Geometries and structures within the Iberian lithosphere and asthenosphere beneath the Tajo Basin and Betic Cordillera revealed using magnetotellurics - Results of the PICASSO Phase I project
- XY743 EGU2011-12654
 Oriol Rosell, Anna Martí, Àlex Marcuello, Juanjo Ledo, **Pilar Queralt**, Eduard Roca, and Joan Campanyà
 Geoelectrical deep structure of the Betic Cordillera (South Spain) revealed: an evidence of asthenospheric upwelling

- XY744 EGU2011-5875
Charlotte Fillon and Ritske Huismans
 Coupled tectonic-surface processes modeling of the southern Pyrenean fold and thrust belt
- XY745 EGU2011-7621
Jordi Diaz, David Pedreira, Mario Ruiz, Javier A. Pulgar, and Josep Gallart
 Mapping the indentation between the Iberian and European crusts between the Pyrenees and the Cantabrian Mountains (N Iberia) from seismic methods.
- XY746 EGU2011-9406
Ivar Midtkandal, Roy Helge Gabrielsen, Jean-Pierre Brun, and Ritske Huismans
 Modelling compression along an extended plate boundary; the influence of along-strike mantle strength variation on subduction polarity
- XY747 EGU2011-12566
David Pedreira, Javier A. Pulgar, and Juan Carlos Afonso
 Geophysical-petrological modelling of the lithosphere beneath the Cantabrian Mountains and North-Iberian margin: mantle wedge hydration triggered by eclogitization reactions?
- XY748 EGU2011-1373
Christoph von Hagke, Onno Oncken, Charlotte E. Cederbom, Daniel F. Stöckli, and Hugo Ortner
 Did thrusting cease in the Northern Alpine Foreland Basin at 12Ma? - Answers from low-temperature thermochronology
- XY749 EGU2011-4147
Pietro Sternai, Frédéric Herman, and Sean Willett
 Reconstruction of the pre-glacial Alpine topography to address the glacially-induced modifications
- XY750 EGU2011-8639
Kurt Stüwe and Ruedi Homberger
 The Geology of the Alps from the Air
- XY751 EGU2011-10031
Pierre Valla, Peter van der Beek, David Shuster, Jean Braun, and Frédéric Herman
 Alpine pre-glacial topography and Quaternary landscape evolution from (U-Th-Sm)/He, 4He/3He thermochronometry and numerical modelling, Western European Alps
- XY752 EGU2011-10101
Andreas Wöfler, Kurt Stüwe, Nicolas Legrain, and Harald Fritz
 Neogene denudation rates in the Eastern Alps as determined by low temperature thermochronology
- XY753 EGU2011-957
Csilla Karina Biró and Balázs Székely
 Historical river avulsion at the Danube Bend - insights from archive shallow boreholes and vertical geoelectric sounding data at Pilismarót
- XY754 EGU2011-12824
Gábor Kovács, Tamás Telbisz, and Balázs Székely
 Quaternary alterations of drainage network in the transition zone between the Alps and the Pannonian Basin
- XY755 EGU2011-13362
András Zámolyi, Martin Olsen, Balázs Székely, Gábor Timár, Gábor Varga and the Húge Hernád Research Team
 Tectonically influenced landscape evolution in the Hernád-valley region (NE Hungary)
- XY756 EGU2011-11246
Martin Schmeer, Michael Schmidt, Benoit Meyssignac, Wouter van der Wal, and Frank Flechtner
 Regional Gravity fields from GRACE observations
- XY757 EGU2011-4032
Damien Delvaux, Sierd Cloetingh, Fred Beekman, Dimitrios Sokoutis, Evgueni Burov, and Michael Kaban
 Basin evolution in a folding lithosphere. Examples from the Altay-Sayan and northern Tien Shan

Wednesday, 06 April

G2.3 – Observing and understanding Earth rotation variability and its geophysical excitation – Orals

Convener: Florian Seitz | Co-Conveners: Aleksander Brzezinski, David Salstein

Room: 17

Chairperson: Florian Seitz

- 08:30–08:45 EGU2011-3926
Richard Gross
 Changes in Present-Day True Polar Wander
- 08:45–09:00 EGU2011-5024
Steven Dickman
 Refined “Effective Angular Momentum Functions
- 09:00–09:15 EGU2011-1077
Veronique Dehant and Marta Folgueira
 Analytical expression of the topographic torque on the CMB
- 09:15–09:30 EGU2011-1854
Axel Nothnagel and Judith Pietzner
 VLBI2010 and the next generation of Earth orientation observations
- 09:30–09:45 EGU2011-7166
Rüdiger Haas and the Fennoscandian-Japanese Ultra-Rapid VLBI Team
 Near real-time monitoring of the Earth's rotation angle with VLBI
- 09:45–10:00 EGU2011-1141
Mathis Bloßfeld, Manuela Seitz, Robert Heinkelmann, and Detlef Angermann
 Estimation of EOP series by a combination of different space geodetic techniques

COFFEE BREAK

Chairperson: David Salstein

- 10:30–10:45 EGU2011-8428
Jianli Chen and Clark Wilson
 Geophysical excitations of the Earth rotation
- 10:45–11:00 EGU2011-5270
David Salstein, Katherine Quinn, and Rodrigo Abarca del Rio
 Impact of atmosphere/ocean models' climate scenarios on angular momentum and related EOP parameters
- 11:00–11:15 EGU2011-6522
Michael Schindelegger, Johannes Böhm, David Salstein, and Harald Schuh
 Sub-daily excitation of Earth rotation by atmospheric tides
- 11:15–11:30 EGU2011-12575
Aleksander Brzezinski
 Atmospheric and oceanic excitation of nutation: analysis of the nonharmonic component
- 11:30–11:45 EGU2011-520
Stephanie Kirschner, Delf Neubersch, and Florian Seitz
 A comparison of different approaches for the determination of the Earth's pole tide Love number from polar motion observations
- 11:45–12:00 EGU2011-3515
Jan Saynisch and Maik Thomas
 Ensemble Kalman filtering of Earth rotation observations with a global ocean model

G2.3 – Observing and understanding Earth rotation variability and its geophysical excitation – Posters

Convener: Florian Seitz | Co-Conveners: Aleksander Brzezinski, David Salstein

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Aleksander Brzezinski

- XY226 EGU2011-2427
Aurore Sibois, Willy Bertiger, George Born, Shailen Desai, Bruce Haines, and Jan Weiss
 GPS-based estimation of polar motion parameters at sub-hourly frequency

- XY227 EGU2011-14019
Peter Steigenberger, Simon Lutz, Rolf Dach, and Thomas Artz
CODE's reprocessed subdaily ERP series
- XY228 EGU2011-12390
Natalia Panafidina and Markus Rothacher
Impact of orbit modelling and the reference frame on subdaily variations in Earth rotation
- XY229 EGU2011-8222
Judith Pietzner and Axel Nothnagel
Geodetic VLBI Intensive scheduling based on singular value decomposition
- XY230 EGU2011-14143
John Gipson, Karen Baver, Kerry Kingham, and Merri Sue Carter
Better Scheduling of the IVS-Intensives for Improved UT1 Estimates
- XY231 EGU2011-11849
André Gebauer, Ulrich Schreiber, and Thomas Klügel
Local and Global Rotations in Data of the Large Laser Gyroscope
- XY232 EGU2011-11400
Tobias Nilsson, Johannes Böhm, and Harald Schuh
On the combination of VLBI and ring laser data for accurate Earth rotation determination
- XY233 EGU2011-13314
Maria Kudryashova, Véronique Dehant, Carine Bruyninx, Pascale Defraigne, and Sebastien Lambert
Nutation offsets inferred from the VLBI/GPS-based normal equations combination
- XY234 EGU2011-11159
Vincenza Luceri, **Cecilia Sciarretta**, Roberto Lanotte, and Giuseppe Bianco
Operational production of multi-technique EOP values and Geodetic Excitation Functions at ASI-CGS
- XY235 EGU2011-8915
Thomas Artz, Lisa Bernhard, Axel Nothnagel, Peter Steigernberger, and Sarah Tesmer
A Combined Sub-daily Earth Rotation Model from GPS and VLBI Observations
- XY236 EGU2011-6877
Andrea Heiker and Hansjoerg Kutterer
Consistency of Earth orientation parameters, second degree gravity field coefficients and geophysical excitation functions
- XY237 EGU2011-6869
Florian Seitz, Hansjörg Kutterer, Michael Schmidt, Stephanie Kirschner, Andrea Heiker, and Franziska Göttl
Estimation of Earth rotation and gravity field parameters, separated excitation mechanisms and physical Earth parameters from geometric and gravimetric space observations
- XY238 EGU2011-11703
Michael Schmidt, Robert Heinkelmann, Franziska Göttl, and Matthew Heller
Combination of time series of excitation functions by introducing operator software impact (OSI) parameters
- XY239 EGU2011-458
Mathis Bloßfeld, Horst Müller, and Detlef Angermann
Adjustment of EOP and gravity field parameter from SLR observations
- XY240 EGU2011-4981
Jose Manuel Ferrandiz, Pedro A. Martinez-Ortiz, and David Garcia
Effects of time gravity changes on the Earth nutations
- XY241 EGU2011-2030
Boris Levin, Sasorova Elena, and Domanski Andrey
Seismic evidences of the Earth rotation role in geodynamics
- XY242 EGU2011-2907
Jan M. Hagedoorn, Hans Greiner-Mai, and Ludwig Ballani
Influence of geometrical settings like flattening and topography of the core-mantle and inner-core boundaries on the gravitational core-mantle coupling
- XY243 EGU2011-7385
Nana Schoen, Uwe Ulbrich, Gregor Leckebusch, Peter Névir, and Maik Thomas
Influence of the North Atlantic Oscillation and the Quasi-Biannual Oscillation on Earth Orientation Parameters
- XY244 EGU2011-7913
Lisa Neef and Katja Matthes
Diagonising the Atmospheric Contribution to Earth Rotation in Observations and a Global Atmospheric Model
- XY245 EGU2011-13912
Rodrigo Abarca del Rio and David Salstein
Atmospheric angular momentum from the 20th Century Reanalysis Project
- XY246 EGU2011-10586
Jolanta Nastula, Richard Gross, and David A Salstein
Oceanic excitation of polar motion: the interpretation of regionally derived signals.
- XY247 EGU2011-11211
Sigrid Böhm and Harald Schuh
Earth rotation variations from ocean tide models

- XY248 EGU2011-2217
Robert Dill and Henryk Dobslaw
 Influence of the global precipitation budget on Earth rotation using water storage variations from the hydrological model LSDM and GRACE
- XY249 EGU2011-9428
Ngai Ham Chan, Jerry X. Mitrovica, and Isamu Matsuyama
 Earth Rotation: A Reappraisal of the Ongoing Impact of the Last Ice Age
- XY250 EGU2011-10605
Robert Dill, Henryk Dobslaw, and Maik Thomas
 Operational Earth Rotation Parameters and Predictions from modelled Atmosphere-Hydrosphere Dynamics
- XY251 EGU2011-10585
Alexey Androssov, Jens Schröter, and Jan Saynisch
 Assimilation of Earth Rotation Parameters in an ocean model

G2.5 – GNSS for Geosciences: PPP applications and modelling improvements – Orals

Convener: Felix Perosanz | Co-Conveners: Robert Weber

Room: 17

Chairperson: Felix Perosanz

- 15:30–15:45 EGU2011-7472
Mark Caissy, Georg Weber, Loukis Agrotis, Gerhard Wübbena, and Manuel Hernandez-Pajares
 The IGS Real-time Pilot Project - The Development of Real-time IGS Correction Products for Precise Point Positioning
- 15:45–16:00 EGU2011-10970
Georg Weber, Andre Hauschild, Dirk Stöcker, Leos Mervart, Oliver Montenbruck, and Peter Steigenberger
 Real-Time PPP based on CONGO and RTCM's Multiple Signal Messages
- 16:00–16:15 EGU2011-3865
Maorong Ge, Junping Chen, Jan Dousa, Xingxing Li, Gerd Gendt, and Jens Wickert
 Development of the GFZ Real-Time Precise Point Positioning Service
- 16:15–16:30 EGU2011-3227
Jianghui Geng, Xiaolin Meng, Alan Dodson, and Norman Teferle
 Ambiguity resolution in precise point positioning: what method should we use for Geosciences?
- 16:30–16:45 EGU2011-9500
Shailen Desai, Willy Bertiger, Bruce Haines, Nate Harvey, Mark Miller, Christina Selle, Anthony Sibthorpe, and Jan Weiss
 Long-Term Evaluation of Precise Point Positioning with Single Receiver Phase Ambiguity Resolution using JPL's GPS products
- 16:45–17:00 EGU2011-12570
Geoffrey Blewitt and Corné Kreemer
 Fast Network Solutions using Precise Point Positioning with Ambiguity Resolution for all Geodetic GPS Stations in the World
- 17:00–17:15 EGU2011-5403
Xiaohong Zhang and Xingxing Li
 Predicting Atmospheric Biases for Rapid Re-initialization in PPP

G2.5 – GNSS for Geosciences: PPP applications and modelling improvements – Posters

Convener: Felix Perosanz | Co-Conveners: Robert Weber

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Robert Weber

- XY252 EGU2011-7445
Peter Steigenberger, Urs Hugentobler, Carlos Rodriguez Solano, André Hauschild, and Oliver Montenbruck
 Orbit and attitude determination of the first QZSS satellite
- XY253 EGU2011-8027
Ulrich Weinbach and Steffen Schön
 Receiver clock modeling in PPP: Analysis of impact and feasibility for ground-based and LEO GPS receivers
- XY254 EGU2011-3678
Tobias Kersten and Steffen Schön
 On the Determination of Antenna Phase Center Corrections in a Multi-GNSS Multi-Frequency Approach
- XY255 EGU2011-10011
Rolf Dach, Michael Meindl, Stefan Schaer, Simon Lutz, Ralf Schmid, and Gerhard Beutler
 System dependence of GNSS receiver antenna calibrations

- XY256 EGU2011-9710
Erik Schoenemann, Tim Springer, and Matthias Becker
True Multi-GNSS-Signal processing, signal specific biases and their variations
- XY257 EGU2011-4630
Jan Hefty and Lubomira Gerhatova
Specificities of GLONASS pseudorange and phase processing in the Precise Point Positioning algorithms when combining with GPS
- XY258 EGU2011-2765
Angel Martin-Furones, Ana B. Anquela, Miriam Sanmartin, Raquel Capilla, and Jose L. Berne
Static PPP with GPS+GLONASS. A case study
- XY259 EGU2011-7220
Sylvain Loyer, Perosanz Felix, Mercier Flavien, and Capdeville Hugues
Integer products from the CNES-CLS IGS Analysis Center
- XY260 EGU2011-7180
François Fund, Felix Perosanz, Sylvain Loyer, Flavien Mercier, Denis Laurichesse, Lydie Lescarmonier, Daniel Moreira, and Lucie Portier
Performances of Kinematic GPS Precise Point Positioning using the CNES-CLS IGS Analysis Center Products
- XY261 EGU2011-7125
Felix Perosanz, Francois Fund, Flavien Mercier, Sylvain Loyer, and Hugues Capdeville
GPS Precise Point Positioning : an alternative to differential positioning ?
- XY262 EGU2011-7179
Lydie Lescarmonier, Benoît Legrésy, **Félix Perosanz**, Flavien Mercier, Sylvain Loyer, and Richard Coleman
GPS-PPP processing accuracy improvement for Antarctic ice studies
- XY263 EGU2011-8157
Daniel Moreira, Félix Perosanz, Stéphane Calmant, Ana Emilia Souza, Joecila Santos da Silva, Frédérique Seyler, Guillaume Ramillen, Otto Rotunno, Achilles Monteiro, and C.k. Shum
Estimation of crustal vertical displacements in Amazon basin due to hydrological loading effects analysed by GPS and GRACE observations
- XY264 EGU2011-8289
Flavien Mercier and Pascal Gegout
Application of PPP with integer ambiguity fixing for airborne gravimetry
- XY265 EGU2011-11671
Qianxin Wang and Tianhe Xu
HALO GPS Software Development for Use in Long Range Airborne Measurement: Strategy, Realization and Results
- XY266 EGU2011-7053
François Fund, Felix Perosanz, Sylvain Loyer, Flavien Mercier, Richard Biancale, and Stavros Melachroinos
Kinematic GPS Precise Point Positioning versus Kinematic Differential GPS Positioning for the Observation of the Ocean Surface Height along the Drake (Antarctica) passage
- XY267 EGU2011-8561
Xingxing Li, Maorong Ge, and Jens Wickert
Regional Network Augmented Real-Time Precise Point Positioning For Instantaneous Ambiguity Resolution
- XY268 EGU2011-10772
Jorge Garate, Jose Martin Davila, Miguel Angel Gonzalez and the TOPOIBERIA GPS Team
CGPS Analysis in the Iberian Peninsula Region by using PPP approach, including TOPOIBERIA, EUREF and ROA networks.
- XY269 EGU2011-1912
Mariusz Figurski and Karolina Szafranek
Precise Point Positioning method in the EPN re-processing
- XY270 EGU2011-10771
Robert Weber, Gottfried Thaler, Ana Karabatic, Fabian Hinterberger, and Nina Magnet
Analyzing site coordinates and tropospheric delays obtained by Real-Time PPP
- XY271 EGU2011-4046
Markus Vennebusch, Steffen Schön, and Ulrich Weinbach
PPP-derived High-frequency Tropospheric Delays as a Measure of Atmospheric Turbulence
- XY272 EGU2011-11383
Wolfgang Söhne, Yüksel Altiner, Leos Mervart, and Georg Weber
Quality of Positioning and Tropospheric Zenith Path Delays Derived by Real-Time PPP

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

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

Room: 17

Chairperson: Markku Poutanen; Volker Klemann

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

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

Posters

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

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Volker Klemann; Markku Poutanen

- XY273 EGU2011-505
Holger Steffen, Patrick Wu, and Hansheng Wang
 Optimal locations for absolute gravity measurements and sensitivity of GRACE observations for constraining glacial isostatic adjustment on the northern hemisphere
- XY274 EGU2011-4801
Volker Klemann, Jan M. Hagedoorn, and Zdenek Martinec
 Refinement of palaeotopography in modelling of glacial isostatic adjustment
- XY275 EGU2011-13877
Volker Klemann, Sven Schulte, Thomas S. James, Arthur S. Dyke, Robert Kung, Doris Dransch, and Detlef Wolf
 Towards an online database for relative sea-level indicators: storage and visualization
- XY276 EGU2011-12587
Jaakko Mäkinen, Marcin Sekowski, Jan Krynski, Jyri Näränen, Arttu Raja-Halli, Hannu Ruotsalainen, and Heikki Virtanen
 Gravity change in Finland 1962-2010 from the comparison of legacy relative measurements with new measurements made with the outdoor absolute gravimeter A10
- XY277 EGU2011-4971
Willy Fjeldskaar and Aleksey Amantov
 A possible tectonic component in the Fennoscandian post-glacial uplift
- XY278 EGU2011-7036
Ove Christian Dahl Omang and Halfdan Pascal Kierulf
 Changes in present day ice melting observed by GPS and Superconducting Gravimeter at Svalbard, Norway
- XY279 EGU2011-5761
Valentina R. Barletta and Riccardo E.M. Riva
 High resolution Post Glacial Rebound over the European Alps
- XY280 EGU2011-6714
Christof Völksen and Christian Gerlach
 A Testbed for Monitoring Crustal Deformation and Gravity Changes Caused by Alpine Glaciers
- XY281 EGU2011-9294
Gabriella Ruggieri, Louise Sophie Sorensen, and Giorgio Spada
 Recent uplift of Greenland from ICESat observations and GIA modelling
- XY282 EGU2011-13162
Anneleen Oyen and Andy Hooper
 The challenges of studying uplift rates in polar regions by means of InSAR

XY283 EGU2011-12220

Ian Thomas, Matt King, and Eugene Domack

A new GPS derived data set of uplift rates in the Antarctic Peninsula

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

Convener: Rob Govers | Co-Conveners: Claudio Faccenna, Alastair Robertson, Zohar Gvirtzman, Uri Schattner, Laurent Jolivet

Room: 28

Chairperson: n.n.

08:30–08:45 EGU2011-3397

Rinus Wortel, Rob Govers, and Marzieh Baes

Plate boundary reorganization in the western-central Mediterranean: Initiation of subduction along the southern boundaries?

08:45–09:00 EGU2011-3157

Ana Crespo-Blanc, Juan Carlos Balanyá, María Luján, Inmaculada Expósito, Manuel Díaz-Azpiroz, and Enric Suades

Large-scale crescent-like structures in the western Mediterranean ultimate arc (Gibraltar arc orogenic system)

09:00–09:15 EGU2011-7661

Pierre-Yves Filleaudeau and Frédéric Mouthereau

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

09:15–09:30 EGU2011-10148

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

Toroidal asthenospheric flow beneath the western Alps from seismic anisotropy

09:30–09:45 EGU2011-11004

Abdelkrim Aoudia, Alessandra Borghi, Valentina Barletta, Letizia Cannizzaro, Andrea Walpersdorf, Christof Voelksen, Riccardo Barzaghi, and Roberto Sabadini

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

09:45–10:00 EGU2011-8317

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

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

COFFEE BREAK

Chairperson: Alastair Robertson and Zohar Gvirtzman

10:30–10:45 EGU2011-9446

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

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

10:45–11:00 EGU2011-8894

Ferenc Horváth and Claudio Faccenna

Central Mediterranean mantle flow system and the formation of the Pannonian basin

11:00–11:15 EGU2011-9981

Nuno Simão, Nicolas Chamot-Rooke, Alain Rabaute, and Corné Kreemer

Relative convergence of the Nubia Plate towards the Eurasia Plate: the case of the lack of seismicity in the Algerian-Tyrrhenian Trough

11:15–11:30 EGU2011-7711

Eugénie Pérouse, Nicolas Chamot-Rooke, Alain Rabaute, and Pierre Briole

A new model to link the present-day kinematics of the Central Mediterranean and the Eastern Mediterranean

11:30–11:45 EGU2011-4015

Kamil Ustaszewski, Daniel Bernoulli, Bernhard Fügenschuh, Liviu Matenco, Roland Oberhänsli, Senecio Schefer, and Stefan M Schmid

Tracing the closure of Neotethys from the Alps to Western Turkey I: The Sava-Izmir-Ankara suture zone

11:45–12:00 EGU2011-12497

Thomas Meier, Brigitte Endrun, Sergei Lebedev, Celine Tirel, and Wolfgang Friederich

Layered deformation within the Aegean continental crust and mantle revealed by seismic anisotropy

LUNCH BREAK

Chairperson: Zohar Gvirtzman and Uri Schattner

- 13:30–13:45 EGU2011-8951
Laetitia Le Pourhiet, Benjamin Huet, and Laurent Jolivet
 The shape of metamorphic core complexes, an indicator for paleo-step faults? Insights from 3D numerical modelling.
- 13:45–14:00 EGU2011-4689
Aral Okay
 A regional olistostrome- mélange belt formed along a major strike-slip tear fault: Bornova Flysch Zone, western Turkey
- 14:00–14:15 EGU2011-13053
Altug Hasözbek, Burhan Erdogan, Erhan Akay, Muharrem Satir, Wolfgang Siebel, and Gullu Deniz Dogan
 Progressive Magmatism in Western Anatolia (Turkey)
- 14:15–14:30 EGU2011-12007
Ilaria Mazzini, Marianna Kováčová, Peter Joniak, Bora Rojay, and Nuretdin Kaymakci
 Late Miocene to Quaternary evolution of the Çankiri Basin (Central Anatolia, Turkey)
- 14:30–14:45 EGU2011-10438
Côme Lefebvre, Maud J.M. Meijers, Nuretdin Kaymakci, Cor G. Langereis, Douwe J.J. van Hinsbergen, and Reinoud L.M. Vissers
 Reconstructing the geometry of Central Anatolia during the Late Cretaceous, a rotational paleomagnetic study on granitoids.
- 14:45–15:00 EGU2011-1519
Alastair Robertson, Gillian McCay, Kemal Tasl?, Isabella Raffi, Robert Ellam, Kroon Dick, and Mehmet Necdet
 Episodic tectonic reactivation of S Neotethys in the E Mediterranean as evidenced from the Kyrenia (Girne) Range, Cyprus

Chairperson: Claudio Faccenna and Rob Govers

- 15:30–15:45 EGU2011-1857
Christian Huebscher, G. Ali Dehghani, Axel Ehrhardt, Jeremy Hall, Marion Jegen, Jim Mechie, and Michael Weber
 Incipient Continent-Continent Collision between the Eratosthenes Seamount and Cyprus / Eastern Mediterranean
- 15:45–16:00 EGU2011-4638
Oded Bar, Zohar Gvirtzman, Shimon Feinstein, and Ezra Zilberman
 Late Tertiary Vertical motions in the Arabia-Mediterranean Transition Zone: Tectonics versus Counteracting Sedimentary Loading Effects
- 16:00–16:15 EGU2011-12842
Uri Schattner
 Spatial and temporal constraints for the eastern Mediterranean Levant margin reactivation during the last interglacial
- 16:15–16:30 EGU2011-2070
Zohar Gvirtzman and Josh Steinberg
 Arabia's northwest plate boundary prior to its localization along the Dead Sea Transform
- 16:30–16:45 EGU2011-7496
Maud Meijers and the Brigitte Smith, Marc Sosson, Yann Rolland, Cor G. Langereis, Mark J. Dekkers, Douwe J.J. van Hinsbergen, Nuretdin Kaymakci, Demir Altiner, Araig Gregoryan, Ara Avagyan, Carla Muller Team
 Constraining the closure of the Neo-Tethys: a paleolatitude reconstruction of the Anatolide-Tauride and South Armenian Blocks
- 16:45–17:00 EGU2011-10081
Thomas François, Evgueni Burov, Philippe Agard, and Bertrand Meyer
 Thermomechanical modelling of the Zagros collision: clues to the formation of the Iranian plateau.

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

Convener: Rob Govers | Co-Conveners: Claudio Faccenna, Alastair Robertson, Zohar Gvirtzman, Uri Schattner, Laurent Jolivet

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XL289 EGU2011-4011
Flavio Giaconia, Guillermo Booth-Rea, José-Miguel Martínez-Martínez, and José-Miguel Azañón
Extensional transfer faults versus transcurrent faults in the eastern Betics, an example from the Sorbas basin (SE Spain)
- XL290 EGU2011-9433
Walter Austmann, **Rob Govers**, and Rinus Wortel
Subduction initiation along the inherited weakness zone at the edge of a slab: a parameter study
- XL291 EGU2011-11599
Jeffrey Poort, Christian Gorini, Marina Rabineau, and **Damien Do Couto**
Inventory of geophysical data, survey metadata and publications for the Western Mediterranean: the MEDGEOGIS-database
- XL292 EGU2011-12644
Rob Govers, Rinus Wortel, and Marzieh Baes
Initiation of the post-Oligocene subduction phase in the Western Mediterranean
- XL293 EGU2011-12946
Alain Rabaute, Nicolas Chamot-Rooke, and Nuno Simão
Neotectonic map of the Nubia-Eurasia plate boundary from Algeria to Calabria
- XL294 EGU2011-3904
Joan Campanyà, Juanjo Ledo, Pilar Queralt, Alex Marcuello, Montserrat Liesa, and Josep Anton Muñoz
Lithospheric-scale magnetotelluric characterization of the West-Central Pyrenees: preliminary results
- XL295 EGU2011-6735
Eva Asensio, Giorgi Khazaradze, and Anna Echeverria
Present-day crustal deformation in Pyrenees by CGPS measurements
- XL296 EGU2011-2587
Pierre Lanari, Stéphane Guillot, Stéphane Schwartz, Olivier Vidal, Pierre Tricart, and Nicolas Riel
Tectono-metamorphic evolution of the Zone briannonnaise (Western Alps) in Eocene-Oligocene times using thermodynamical modelling and RSCM methods
- XL297 EGU2011-8388
Mathieu Bellanger, Romain Augier, Thierry Baudin, Nicolas Bellahsen, Olivier Beyssac, Charles Gumiaux, and Laurent Jolivet
3D geodynamic evolution of a section between Grenoble and St Jean de Maurienne (External Western Alps)
- XL298 EGU2011-2453
Kevin Norton and **Andrea Hampel**
Postglacial rebound promotes glacial re-advances - a case study from the European Alps
- XL299 EGU2011-4787
Benedetta Andreucci, Leszek Jankowski, Stefano Mazzoli, Peter Reiners, Rafal Szaniawski, and Massimiliano Zattin
The Neogene Evolution of polish Outer Carpathians: relationship between exhumation and deep geodynamic processes as constrained by low temperature thermochronology
- XL300 EGU2011-7262
Dariusz Botor, **István Dunkl**, Marta Rauch, and Hilmar von Eynatten
Timing of tectonic subsidence, accretion and exhumation of the Western Carpathian Flysch by apatite fission track and (U-Th)/He thermochronology
- XL301 EGU2011-2580
Alexandre Kounov and Stefan Schmid
Alpine thermotectonic evolution of the Apuseni Mountains (Romania)
- XL302 EGU2011-8170
Marco Pastore, Giovanni Pezzati, Filippo D'Oriano, Paola Vannucchi, and Nevio Zitellini
Evidence of post-rift compressional tectonics in the North-Eastern Tyrrhenian Basin.
- XL303 EGU2011-10640
Carmelo Angelica, Alessandro Bonforte, Giovanni Distefano, Enrico Serpelloni, and Giuseppe Puglisi
Strain field on the Sicily-Calabria (Southern Italy) from seismic and geodetic data
- XL304 EGU2011-7736
Mirko Carlini, Andrea Artoni, Massimo Bernini, Paolo Vescovi, Francesca Remitti, Giuseppe Bettelli, Paola Vannucchi, Maria Laura Balestrieri, Sveva Corrado, and Luca Aldega
Regional and local trends of maximum burial and exhumation timing in the Northern Apennines of Italy: a new updated dataset of low-temperature thermal and thermochronological data integrated with geological constraints
- XL305 EGU2011-1892
Dennis Brown, Joaquina Alvarez-Marron, Martin Schimmel, and Yih-Min Wu
Structure and kinematics of the central Taiwan thrust belt: Insights from geological, seismic energy release, and earthquake focal mechanism mapping

- XL306 EGU2011-2586
Nicolas Riel, Stéphane Guillot, Etienne Jaillard, Jean-Emmanuel Martelat, Jean-Louis Paquette, Pierre Lanari, Emilie Janots, and Philippe Goncalves
 Metamorphic and geochronological study of a newly recognized paired metamorphic belt in Ecuador: implications for HT-LP metamorphism in a suprasubduction zone
- XL307 EGU2011-3965
Stathis C. Stiros, Fanis Moschas, and Villy Kontogianni
 Evidence of recent faulting along the NE Adriatic coast
- XL308 EGU2011-11700
Davide Scrocca, Marco Cuffaro, Federica Riguzzi, Fabrizio Antonioli, Eugenio Carminati, Michele Livani, and Carlo Doglioni
 Geodynamics of the northern Adriatic plate
- XL309 EGU2011-6386
 Gallais Flora, **Gutscher Marc-André**, Graindorge David, Chamot-Rooke Nicolas, and Klaeschen Dirk
 The Ionian Abyssal Plain - a key region for understanding the formation of the central Mediterranean domain
- XL310 EGU2011-4000
Stefan Schmid, Daniel Bernoulli, Bernhard Fügenschuh, Liviu Matenco, Senecio Schefer, Roland Oberhänsli, and Kamil Ustaszewski
 Tracing the closure of Neotethys from the Alps to Western Turkey II: Similarities and differences between Dinarides, Hellenides and Anatolides-Taurides.
- XL311 EGU2011-7023
 Gwenaëlle Salaun, **Anne Paul**, Helle Pedersen, Fabien Hubans, Hayrullah Karabulut, Ahu Komec Mutlu and the Simbaad Team
 Seismic structure and anisotropy of the upper mantle beneath the Aegean and Anatolia: images of a very complex subduction system
- XL312 EGU2011-2074
Andrea Bruestle, Ludger Kueperkoch, Thomas Meier, Wolfgang Friederich and the EGELADOS working group Team
 Seismicity of the SE Aegean observed by the temporary EGELADOS network
- XL313 EGU2011-3194
kenan akbayram, aral okay, and ercan ozcan
 Paleontological and Stratigraphical Evidence for the Late Cretaceous-Early Tertiary Post-Collisional Tectonism along the Intra-Pontide Suture Zone, Northwestern Turkey
- XL314 EGU2011-6125
Mesut Aygül and Aral Okay
 Possible Paleozoic magmatism in the western Sakarya Zone, Biga Peninsula, NW Turkey
- XL315 EGU2011-2384
Firat ?engün, Erdiñç Yigitba?, O. Ersin Koray, and ?.Onur Tunç
 Geochemistry and LA-ICPMS zircon geochronology of the pre-Alpine rocks in the Biga Peninsula, NW Anatolia
- XL316 EGU2011-2920
Semih Can Ülgen and Aral I. Okay
 Tectonic Setting of the Ophiolitic Melanges South of the Marmara Sea Between the Izmir-Ankara and Intra-Pontide Sutures
- XL317 EGU2011-8957
Heather King, Ezgi Ç?nar, Jeremy Hall, Ali Aksu, Sava? Gurçay, and Günay Çifçi
 The Miocene to Recent evolution of the western Antalya Basin and its linkage with the Anaximander Mountains and Isparta Angle
- XL318 EGU2011-10733
Sibel Tatar Erkül and Fuat Erkül
 Petrology and petrogenesis of syn-extensional granitoids in the Menderes metamorphic core complex, western Turkey - geodynamic implications for Aegean extension
- XL319 EGU2011-7948
Mehmet Cihat Alcicek and Johan H. ten Veen
 Neogene palaeogeography of SW Anatolia: A case study inferred from Tectonic-Sedimentation-Climate interactions in an array of evolving orogen-top basins
- XL320 EGU2011-4256
Ezgi Ç?nar, Heather King, Ali Aksu, Jeremy Hall, Sava? Gurçay, and Günay Çifçi
 The Miocene to Recent evolution of an active transform fault at the junction of Hellenic and Cyprus Arcs, eastern Mediterranean: the linkage between the western Antalya Basin and Finike Basin and Anaximander Seamounts
- XL321 EGU2011-10329
kenan akbayram, aral okay, and muharrem sat?r
 Evidence for Existence of Strandja Massif along the Intra-Pontide suture zone, between Istanbul and Sakarya Terranes

- XL322 EGU2011-12391
Tamás Mikes, Andreas Mulch, Bora Rojay, Tina Lüdecke, and Fabian Schemmel
Neogene topography and precipitation patterns of the Central Anatolian Plateau
- XL323 EGU2011-10326
Jeroen Bartol, Rob Govers, and Rinus Wortel
The Central Anatolian Plateau: relative timing of uplift and magmatism
- XL324 EGU2011-4998
Bahar Kurtbozan, Susan Walsh, Tiffany Piercey, Selin Akhun, Ali Aksu, Jeremy Hall, and Günay Çifçi
Neogene sedimentary history of the Cilicia Basin, eastern Mediterranean: a contribution to the TopoEurope VAMP project
- XL325 EGU2011-2071
Josh Steinberg, Zohar Gvirtzman, Yehoshua Folkman, and Zvi Garfunkel
The origin and nature of the rapid Late Tertiary filling of the Levant Basin
- XL326 EGU2011-7691
Clément Hardy, **Catherine Homberg**, Éric Barrier, and Yehuda Eyal
A numerical model of the evolution of the Dead Sea transform during the Neogene
- XL327 EGU2011-7401
Yehuda Eyal
The Syrian Arc Fold system: Age and rate of folding
- XL328 EGU2011-7462
Marc Hässig, Yann Rolland, Marc Sosson, and Ghazar Galoyan
New P-T-t data on the metamorphic sole of the Amasia ophiolites and implications for the geodynamical process, NW of the Sevan-Akera suture zone, Lesser Caucasus (Armenia)
- XL329 EGU2011-5053
Alexei L. Sobissevitch, Yuri P. Masurenkov, Dmitriy V. Likhodeev, Irina N. Pouzich, and Ninel I. Laverova
The modern hydrothermal system of the crust-mantle origin related to fluid-magmatic activity of volcanic centers in Northern Caucasus
- XL330 EGU2011-715
Adam Forte, Eric Cowgill, and Ibrahim Murtuzayev
Plio-Pleistocene Stratigraphy of the Kura Basin, Azerbaijan: Implications for the Formation of the Greater Caucasus and Kura Fold-Thrust Belt
- XL331 EGU2011-348
Fuad Aliyev
Seismic hazard assessment of Azerbaijan territory using new seismological and GPS data
- XL332 EGU2011-7996
Daniel Reif, Kurt Decker, Bernhard Grasemann, and Herwig Peresson
Fracture patterns and generations in the simply folded part of the Zagros fold-and-thrust belt, Northern Iraq
- XL333 EGU2011-7037
Antonio Castro and Mehraj Aghazadeh
Post-collisional monzonitic magmatism from the Zagros hinterland. Implications on lithospheric processes
- XL334 EGU2011-9040
Samuel Angiboust, Philippe Agard, Cees-Jan De Hoog, and Jafar Omrani
Nature and structure of the Sistan « mélange » ophiolitic belt (Eastern Iran): Insights on deep accretionary wedge and subduction channel processes
- XL335 EGU2011-10926
Ivone Jiménez-Munt, Manel Fernàndez, Eduard Saura, Jaume Vergés, Daniel Garcia-Castellanos, and Antonio Villaseñor
3D lithospheric structure and regional/residual bouguer anomalies from Arabia-Eurasia collision in Iran
- XL336 EGU2011-6657
Giuseppe Pezzo, Simone Atzori, and Andrea Antonioli
The 2008 Balochistan sequence and its relationships with the CFF
- XL337 EGU2011-2347
Ivan Koulakov
High-frequency P and S seismic anomalies in the upper mantle beneath the Alpine-Himalayan orogenic belt reveal mechanisms of the lithosphere recycling due to collision
- XL338 EGU2011-8040
Ceri Nunn, Frederik Tilmann, Keith Priestley, Steven Roecker, Ross Heyburn and the INDEPTH IV and ASCENT Team
P-wave tomographic structure of NE Tibet
- XL339 EGU2011-4683
Tai-Lin Tseng and Wang-Ping Chen
Constraints on Upper Mantle Velocities beneath Tibet and Stable Continents using Shear-coupled P waves
- XL340 EGU2011-12456
Jan Vozar, Alan G. Jones, Florian Le Pape, Wei Wenbo and the INDEPTH MT Team
The lithospheric mantle and crust in the central Tibetan Plateau from INDEPTH electromagnetic data

- XL341 EGU2011-6889
 Florian Le Pape, Alan G. Jones, **Jan Vozar**, Wenbo Wei and the INDEPTH MT Team
 Northern Tibet crustal and lithospheric mantle structures inferred from INDEPTH magnetotelluric data
- XL342 EGU2011-1662
Pierre Bouilhol, Oliver Jagoutz, Francis O. Dudas, and John M. Hanchar
 Dating the India-Eurasia collision through arc magmatic records

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

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

Room: 26

Chairperson: n.n.

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

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

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

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

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

- XY665 EGU2011-2958
Yesim Cubuk, Seda Yolsal-Cevikbilen, and Tuncay Taymaz
 Source Parameters of March 8, 2010 Karakocan (Elazig, SE Turkey) Earthquakes: Synthesis of Time Domain Regional Moment Tensor and Teleseismic Body-Waves Inversions
- XY666 EGU2011-5617
 Frauke Klingelhoefer, Chao-Shing Lee, **Marc-Andre Gutscher**, Jing-Yi Lin, and Chin-Wei Liang
 The rupture zone of the Feb. 2010 M8.8 Maule Chile earthquake : preliminary relocation of aftershocks from a temporary marine seismic network and numerical modeling of forearc thermal structure
- XY667 EGU2011-6021
Kuo-Jen Chang, Rou-Fei Chen, Jian-Zhong Li, Yuping Liu, Chia-Yu Lu, and Chih-Tung Chen
 Preliminary analysis of active deformation in Chengdu foreland basin, China
- XY668 EGU2011-8845
Anne Deschamps, Bernard Mercier de Lépinay, Marie Paule Bouin, Julie Perrot, Frauke Klingelhoefer, Valérie Clouard, Philippe Charvis, Boris Marcaillou, and David Graindorge
 A new insight on the HAITI event : aftershock study.
- XY669 EGU2011-9088
Denis Lombardi, Thierry Camelbeeck, Thomas Lecocq, Giovanni Rapagnani, and Michel Van Camp
 Preliminary data analysis from a permanent seismic station newly installed in the Sør Rondane Mountains, East Antarctica
- XY670 EGU2011-10653
Muzli Muzli, Joachim Saul, Guenter Asch, Rongjiang Wang, and Frederik Tilmann
 Coseismic displacement of the 2010, Mw 7.8 Mentawai earthquake obtained from Strong Motion Data
- XY671 EGU2011-12780
Anke Dannowski, Ingo Grevemeyer, Ernst R. Flueh, Martin Thorwart, and Wolfgang Rabbel
 Crustal structure from teleseismic P-wave receiver function analysis in the Maule Region, Central Chile
- XY672 EGU2011-12170
Ivonne Arroyo, Ingo Grevemeyer, Ernst Flueh, Helene Kraft, Eduardo Moscoso, Diana Comte, Martin Thorwart, Yvonne Dzierma, and Wolfgang Rabbel
 3-D Velocity Structure and Seismotectonics prior to the 2010 Chile Earthquake (Mw 8.8) from an Amphibious Seismological Network
- XY673 EGU2011-11303
frederick boudin, Sebastien Allgeyer, Pascal Bernard, Hélène Hébert, Manuel Olcay, and Raul Madariaga
 Near Field data analysis of the Maule event by c omparison between tide gauges, long base tiltmeters and broad band seismometers.

Thursday, 07 April

G2.1 – Improved Terrestrial Reference Frames for Higher-Accuracy Applications – Orals

Convener: Zuheir Altamimi | Co-Conveners: Jim R Ray

Room: 18

Chairperson: n.n.

- 15:30–15:45 EGU2011-9256
Jan Weiss, Willy Bertiger, Shailen Desai, Bruce Haines, and Nate Harvey
 Terrestrial Reference Frame Realization from Combined GPS/LEO Orbit Determination
- 15:45–16:00 EGU2011-1704
Thomas A Herring
 Orbit analysis impacts on GPS reference frame realizations
- 16:00–16:15 EGU2011-6850
Paul Rebischung, Bruno Garayt, Ralf Schmid, Jim Ray, and Xavier Collilieux
 IGS08: Elaboration, consequences and maintenance of the IGS realization of ITRF2008
- 16:15–16:30 EGU2011-3836
Peter Steigenberger, Urs Hugentobler, Ralf Schmid, Uwe Hessels, Thomas Klügel, and Manuela Seitz
 GNSS-specific local effects at the Geodetic Observatory Wettzell
- 16:30–16:45 EGU2011-11130
Graham Appleby, Toshimichi Otsubo, and Vincenza Luceri
 Further Improvements in Understanding Subtle Systematic Effects in Laser Ranging Observations
- 16:45–17:00 EGU2011-5988
Guilhem Moreaux, Frank Lemoine, Laurent Soudarin, Pascal Willis, Petr Stepanek, Michiel Otten, Ramesh Govind, and Sergei Kuzin
 Research activities for continued improvement in the DORIS contribution to the reference frame

G2.1 – Improved Terrestrial Reference Frames for Higher-Accuracy Applications – Posters

Convener: Zuheir Altamimi | Co-Conveners: Jim R Ray

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY290 EGU2011-4750
Zuheir Altamimi, Laurent Métivier, and Xavier Collilieux
 ITRF2008 Plate Motion Model
- XY291 EGU2011-7486
Laurent Metivier, Xavier Collilieux, and Zuheir Altamimi
 Global Isostatic Adjustment and ITRF solutions
- XY292 EGU2011-3011
Stanislaw Schillak
 The comparison of the terrestrial reference frames ITRF2000, ITRF2005 and ITRF2008 in the determination of the SLR station positions and velocities
- XY293 EGU2011-12388
Florian Dilssner, Rolf Dach, Ralf Schmid, Tim Springer, and Rene Zandbergen
 Updating the IGS processing standard: new GLONASS satellite antenna corrections for igs08.atx
- XY294 EGU2011-3901
Neil Weston and Jim Ray
 GPS positioning performance from algorithm advances in the network version of OPUS
- XY295 EGU2011-3695
Elifuraha Saria, Eric Calais, Zuheir Altamimi, Pascal Willis, Rui, Manuel Fernandes, and Hussein Farah
 A new velocity field for Africa from combined GPS and DORIS solutions: Contribution to AFREF
- XY296 EGU2011-6007
Halfdan Pascal Kierulf, Mohammed Ouassou, Oddgeir Kristiansen, and Oddvar Tangen
 A continuous GPS based velocity field for Norway, using Kriging
- XY297 EGU2011-12777
Xanthos Papanikolaou, Vangelis Zacharis, Christiana Mitsakaki, Aggeliki Marinou, Dimitris Anastasiou, Kalliopi Papazissi, and Dimitris Paradissis
 On the no-net-translation condition for regional networks.
- XY298 EGU2011-1901
Karolina Szafranek, Wiesław Graszka, and Mariusz Figurski
 ETRS89 realization for Polish EUPOS GNSS sites

- XY299 EGU2011-8156
Manuela Seitz, Robert Heinkelmann, and Peter Steigenberger
 Consistent estimation of TRF and CRF
- XY300 EGU2011-11868
Hana Spicakova, Lucia Plank, Tobias Nilsson, Johannes Böhm, and Harald Schuh
 Determination of terrestrial and celestial reference frames with the Vienna VLBI Software VieVS
- XY301 EGU2011-3574
Christine Hackman
 Impact of network de-densification on GPS-estimated polar motion and LOD: a simulation study.

G2.2 – The Global Geodetic Observing System: Tying and Integrating Geodetic Techniques for Research and Applications – Orals

Convener: Richard Gross | Co-Conveners: Erricos C. Pavlis, Manuela Seitz, Dirk Behrend

Room: 17

Chairperson: Richard Gross

- 13:30–13:45 EGU2011-4786
Michael R. Pearlman, Erricos C. Pavlis, Chopo Ma, Zuheir Altamimi, Carey E. Noll, and David A. Stowers
 Space Geodesy Networks to Improve the ITRF
- 13:45–14:00 EGU2011-4743
Zuheir Altamimi, Xavier Collilieux, and Laurent Métivier
 Consistency evaluation of space geodetic techniques via ITRF combination
- 14:00–14:15 EGU2011-3738
Daniela Thaller, Krzysztof Sosnica, Adrian Jäggi, Rolf Dach, Gerhard Beutler, Maria Mareyen, and Bernd Richter
 GNSS satellites as co-locations for a combined GNSS and SLR analysis
- 14:15–14:30 EGU2011-13100
Yoaz Bar-Sever, Shailen Desai, Richard Gross, Bruce Haines, Da Kuang, and Steve Nerem
 The Geodetic Reference Antenna in Space (GRASP) - A Mission to Enhance the Terrestrial Reference Frame
- 14:30–14:45 EGU2011-8026
Jesús Gómez-González, Marlene C.S. Assis, Francisco Colomer, and José Antonio López-Fernández
 An Atlantic Network of Geodynamical and Space Stations (Project RAEGE)
- 14:45–15:00 EGU2011-8287
Tim Springer, Florian Dilssner, Diego Escobar, Claudia Flohrer, Michiel Otten, Drazen Svehla, and René Zandbergen
 NAPEOS: The ESA/ESOC tool for Space Geodesy

G2.2 – The Global Geodetic Observing System: Tying and Integrating Geodetic Techniques for Research and Applications – Posters

Convener: Richard Gross | Co-Conveners: Erricos C. Pavlis, Manuela Seitz, Dirk Behrend

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Richard Gross

- XY302 EGU2011-12214
Gérard Petit and Brian Luzum
 The IERS Conventions (2010)
- XY303 EGU2011-9991
Wojciech Pachelski, Małgorzata Pańnicka, Karolina Szafranek, and Agnieszka Zwirowicz-Rutkowska
 Using UML for conceptual modeling of time scales according to IERS Convention 2010
- XY304 EGU2011-6673
Richard Biancale, Daniel Gambis, Manuela Seitz, Jean-Yves Richard, Sylvain Loyer, Laurent Soudarin, Daniela Thaller, Tim Springer, Rolf Koenig, Cecilia Sciarretta and the TU Vienna, Austria Team
 IERS Working group on Combination of Space Geodetic Techniques at the Observation Level (COL)
- XY305 EGU2011-14126
Dirk Behrend, John Gipson, Chopo Ma, and Jan McGarry
 GGAO as an Integrated Geodetic Site
- XY306 EGU2011-13547
Daniel MacMillan, William Petrachenko, Arthur Niell, Brian Corey, Dirk Behrend, and Harald Schuh
 VLBI2010: Next Generation VLBI System for Geodesy and Astrometry

- XY307 EGU2011-11722
Lucia Plank, Johannes Böhm, Sigrid Böhm, Vahab Nafisi, Tobias Nilsson, Hana Spicakova, Jing Sun, Claudia Tierno Ros, and Harald Schuh
 The Vienna VLBI Software VieVS - latest developments
- XY308 EGU2011-14124
Erricos C. Pavlis, Magdalena Kuzmicz-Cieslak, and Peter M. Hinkey
 GGOS Products from Multiple Mission SLR Data Analysis
- XY309 EGU2011-3961
Fanis Moschas and Stathis C. Stiros
 Noise characteristics of short-duration, high-frequency GPS records
- XY310 EGU2011-9885
Petr Stepanek, Jan Dousa, Vratislav Filler, and Urs Hugentobler
 Degradation of the SPOT-5 DORIS measurements due to the South Atlantic Anomaly
- XY311 EGU2011-14120
Florian Seitz
 Multi-sensor space and in-situ observations for the separation of integral GRACE signals of continental water storage
- XY312 EGU2011-12068
Victoria Smith, Matt Wilkinson, Rob Sherwood, and Graham Appleby
 An Assessment of the Impact of Site Stability on the Absolute Gravity Record at the SGF, Herstmonceux, UK
- XY313 EGU2011-10180
 Francesco Guglielmino, Giuseppe Nunnari, Giuseppe Puglisi, and **Alessandro Spata**
 SISTEM approach: geodetic integration of satellite and in situ ground deformation data

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

Convener: Rob Govers | Co-Conveners: Claudio Faccenna, Alastair Robertson, Zohar Gvirtzman, Uri Schattner, Laurent Jolivet

Room: 28

Chairperson: Uri Schattner and Alastair Robertson

- 08:30–08:45 EGU2011-5046
Philippe Agard, Jafar Omrani, Laurent Jolivet, Hubert Whitechurch, Bruno Vrielynck, Wim Spakman, Patrick Monié, Bertrand Meyer, and Rinus Wortel
 Subduction and orogenic build-up in the Zagros
- 08:45–09:00 EGU2011-4555
Jean-Christophe Wrobel-Daveau, Jean-Claude Ringenbach, Geoffrey M. H. Ruiz, Finlay M. Stuart, and Dominique Frizon de Lamotte
 Vertical movements and Cenozoic propagation of the deformation in the Zagros belt: insights from sections balancing and detrital low temperature thermochronology (AHe and ZHe)
- 09:00–09:15 EGU2011-4731
 Massimo Mattei, **Francesca Cifelli**, Giovanni Muttoni, Andrea Zanchi, Fabrizio Berra, Fathollah Mossavvari, and Eshraghi Safar Ali
 Neogene block-rotation in Central Iran: evidence from paleomagnetic data
- 09:15–09:30 EGU2011-5884
Kristen Cook, Leigh Royden, Clark Burchfiel, Yuan-Hsi Lee, and John Suppe
 Cenozoic cooling history of the southwestern Longmen Shan
- 09:30–09:45 EGU2011-4183
Anne Replumaz, Stéphane Guillot, and Ana Negredo
 Indian and Asian continental subduction episodes during collision : tectonic context and slab dynamics
- 09:45–10:00 EGU2011-1888
Mark Allen and Howard Armstrong
 Shifts in the Intertropical Convergence Zone and the tectonics and climate of the India-Eurasia collision

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

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

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Shirzaei/Walter/Lanari

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

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

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

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

Convener: Ramon Carbonell | Co-Conveners: CharLotte Krawczyk

Room: 26

Chairperson: Charlotte Krawczyk

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

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

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

Room: 20

Chairperson: Acocella/Gudmundsson

10:30–10:45 EGU2011-9272

Robert (Bob) White, Hilary Martens, Janet Key, Heidi Soosalu, and Steinunn Jakobsdottir
Dyke Propagation and Deformation under the Icelandic Rift Zone Tracked by Seismicity.

10:45–11:00 EGU2011-10053

Margaret Hartley and Thor Thordarson

Formation of Öskjuvatn caldera at Askja, north Iceland: evolution of caldera collapse and implications for the lateral flow hypothesis

11:00–11:15 EGU2011-13562

Freysteinn Sigmundsson, Olgeir Sigmarsson, Andy Hooper, Sigrún Hreinsdóttir, Sigurlaug Hjaltadóttir, Kristín Vogfjörð, Þóra Árnadóttir, Rikke Pedersen, Páll Einarsson, Kurt Feigl and the Eyjafjallajökull volcano anatomy Team

The 2010 inflation and deflation sources of Eyjafjallajökull: Magma flow, geochemical characteristics and evidence for intrusion triggering of the explosive summit eruption

11:15–11:30 EGU2011-12804

Andrew Hooper, Freysteinn Sigmundsson, Sigrún Hreinsdóttir, Thóra Árnadóttir, David Bekaert, Rikke Pedersen, Matthew Roberts, Páll Einarsson, Benedikt Ófeigsson, Kurt Feigl and the Eyjafjallajökull Geodetic Team

The 2010 inflation and deflation sources of Eyjafjallajökull: Modelling of geodetic data from InSAR and GPS

11:30–11:45 EGU2011-9347

Carolina Pagli, Tim Wright, Hua Wang, Eric Calais, Laura Bennati Rassion, Cynthia Ebinger, Manahloh Belachew, and Elias Lewi

Geodynamics of Afar: 3D crustal velocities and strain rates from multiple InSAR tracks and GPS

11:45–12:00 EGU2011-12013

Eleonora Rivalta, Marco Beleggia, and Torsten Dahm

The changing shape of dykes during propagation explains the pattern of induced seismicity

LUNCH BREAK

Chairperson: Walter/Acocella

13:30–13:45 EGU2011-9800

Agust Gudmundsson, Nahid Mohajeri, and Zoe Barnett

Power-law size distributions in volcanotectonics

13:45–14:00 EGU2011-430

Joel Ruch, Valerio Acocella, Fabrizio Storti, Marco Neri, Susi Pepe, Giuseppe Solaro, and Eugenio Sansosti

Detachment depth revealed by rollover deformation: an integrated approach at Mount Etna.

14:00–14:15 EGU2011-11476

Alessandro Bonforte, Francesco Guglielmino, and Giuseppe Puglisi

Dynamics preceding and accompanying the 2008-2009 Eruption of Mt. Etna (Italy) imaged by integrated GPS and DInSAR data

14:15–14:30 EGU2011-12004

Danila Scandura, Alessandro Bonaccorso, Gilda Currenti, and Ciro Del Negro

FEM-based inversion of DInSAR data to infer coseismic slip distribution along Pernicana Fault System at Mt Etna

14:30–14:45 EGU2011-2871

Nobuo Geshi, Joel Ruch, and Valerio Acocella

Relationships between caldera size and eruptive volume of magma

14:45–15:00 EGU2011-11641

Eoghan Holohan, Thomas Walter, John Walsh, Benjamin van Wyk de Vries, Martin Schöpfer, and Valentin Troll

Origin and Significance of Oblique-slip Faulting during Caldera Collapse

Chairperson: Jonsson/Puglisi

- 15:30–15:45 EGU2011-9301
Guillermo Caravantes González, Jeffrey Zurek, Hazel Rymer, Corinne Locke, John Cassidy, and Glyn Williams-Jones
 Structural and geophysical study of Masaya Caldera
- 15:45–16:00 EGU2011-8670
Christelle Wauthier, Valérie Cayol, François Kervyn, and Nicolas d'Oreye
 Nyiragongo Volcano 2002 Eruption Constrained by Multibeam InSAR Data
- 16:00–16:15 EGU2011-11962
Mariarosaria Manzo, Pietro Tizzani, Giuseppe Solaro, Eugenio Sansosti, Paolo Berardino, Andrea Manconi, Antonio Pepe, Susi Pepe, and Riccardo Lanari
 Twenty years of ground deformation monitoring at Campi Flegrei caldera (Southern Italy) via advanced space-based remote sensing techniques
- 16:15–16:30 EGU2011-9561
 Michael Lisowski, **Maurizio Battaglia**, and Michael Poland
 Analysis of GPS-measured deformation before, during, and after the 2004-2008 dome-building eruption of Mount St. Helens, Washington
- 16:30–16:45 EGU2011-11916
Francesco Casu
 Present scenario and new perspectives for Differential SAR Interferometry in volcanic areas
- 16:45–17:00 EGU2011-4399
Jose Fernandez and Antonio G. Camacho
 Modelling geodetic changes at volcanic areas by extended sources. Model and application examples.

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

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

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Gudmundsson/Jonsson/Puglisi/Walter

- A208 EGU2011-10760
Maïke Schubert, Thomas Driesner, Taras Gerya, and Peter Ulmer
 Basaltic magma as trigger for felsic intrusions
- A209 EGU2011-1102
Gabriele Uenzelmann-Neben, Daniela N. Schmidt, Frank Niessen, and Ruediger Stein
 Glacial rebound causes intraplate volcanism off South Greenland
- A210 EGU2011-2638
Vadim Milyukov and Andrey Myasnikov
 Monitoring the state of the magmatic structures of Elbrus volcano based on observation of lithospheric deformations
- A211 EGU2011-2714
 Virgílio Mendes, **José Madeira**, António Trota, António Brum da Silveira, Joaquim Pagarete, and Pedro Elósegui
 GPS surveying in S. Jorge, Azores, reveal volcanic unrest?
- A212 EGU2011-2915
Marco Neri, Joel Ruch, Bornas Ma. Antonia Vidamo, Martinez-Villegas Mylene, Bariso Ericson, and Bignami Christian
 Volcano-tectonic evolution of Mt. Kanlaon, Negros Island, Philippines
- A213 EGU2011-5509
Ingrid Fjeldskaar Løtveit, Agust Gudmundsson, and Willy Fjeldskaar
 Mechanical and thermal effects of sill emplacement in layered rocks
- A214 EGU2011-5676
Joel Ruch, Adriano Nobile, Valerio Acocella, and Nobuo Geshi
 Volcano collapse and pit crater formation using analogue models: an application to Myiakejima, Japan.
- A215 EGU2011-3211
Valerio Acocella, Giuseppe Solaro, Susi Pepe, Joel Ruch, Marco Neri, and Eugenio Sansosti
 Anatomy of an unstable volcano from InSAR: multiple processes affecting flank instability at Mt. Etna, 1994-2008
- A216 EGU2011-6478
Amalia Bonanno, Vincenzo Vinciprova, Giuseppe Puglisi, and Giuseppe Nunnari
 FE Modeling of the instable eastern flank of Mt. Etna volcano during the inter-eruptive period 2003 - 2004
- A217 EGU2011-6590
Francesco Guglielmino, Alessandro Bonforte, Giuseppe Puglisi, Christian Bignami, Salvatore Stramondo, Francesco Obrizzo, Urs Wegmüller, and Pierre Briole
 The April 3, 2010 earthquake along the Pernicana fault (Mt. Etna - Italy): analysis of satellite and in situ ground deformation data integrated by the SISTEM approach

- A218 EGU2011-14059
Marco Aliotta, Andrea Cannata, Daniele Carbone, Giuseppe Di Grazia, Salvatore Gambino, Francesco Guglielmino, Placido Montalto, Domenico Patanè, and **Giuseppe Puglisi**
Geophysical effects of the lava fountain episodes at Mt. Etna: insights on the shallow plumbing system
- A219 EGU2011-11255
Giorgio De Guidi, **Salvatore Scudero**, and Stefano Gresta
Relationship between surface and deep structure at Mt. Etna volcano (Sicily)
- A220 EGU2011-11349
Christina Plattner, Falk Amelung, Scott Baker, Rob Govers, and Mike Poland
Modeling flank motion at Kilauea volcano (Hawai'i): Insights in the dynamic interaction between tectonic and magmatic driving forces for volcano deformation
- A221 EGU2011-7597
Fabien Albino, Virginie Pinel, and Freysteinn Sigmundsson
Influence of surface load variations on shallow magma storage zones: Application to Icelandic subglacial volcanoes
- A222 EGU2011-11504
Andreas Fichtner and Hrvoje Tkalčić
Insights into the kinematics of a volcanic caldera drop: Probabilistic finite-source inversion of the 1996 Bardarbunga, Iceland, earthquake
- A223 EGU2011-2088
Thomas R. Walter
Web-cam Strain Measurement at Mount St. Helens from 2004-2008
- A224 EGU2011-3205
Thomas Dewez, Clément Hibert, Anne Mangeney, Philippe Kowalski, Philippe Catherine, and Gilles Grandjean
Ground-based stereo-photogrammetric monitoring of the active crater of Piton de la Fournaise, La Réunion Island
- A225 EGU2011-553
Adriano Nobile, Joel Ruch, Valerio Acocella, Sven Borgstrom, Valeria Siniscalchi, Eugenio Sansosti, Andrea Manconi, and Yosuke Aoki
Deformation on Aso Caldera (SW Japan) detected through DInSAR
- A226 EGU2011-6439
Antonio Troiano, Maria Giulia Di Giuseppe, Zaccaria Petrillo, Claudia Troise, and **Giuseppe De Natale**
Ground deformation at calderas driven by fluid injection: modelling unrest episodes at Campi Flegrei (Italy)
- A227 EGU2011-426
Sébastien Leibbrandt, Pierre-Yves Gillot, and Anthony Hildenbrand
Emplacement of large volcanoclastic breccia volumes in relationship with the evolution of a central caldera: volcanic history of the Cantal massif (France)
- A228 EGU2011-7956
Muriel Gerbault
Conditions for shear and tensile failure around an inflating circular magmatic chamber: internal overpressure and shear band geometries obtained from analytical and numerical elasto-plastic models
- A229 EGU2011-8541
Rodrigo del Potro, Joachim Gottsmann, Antonio Camacho, and Mayel Sunagua
Deep structure beneath Uturuncu volcano in the central Andes: Insights from new density anomaly models
- A230 EGU2011-9772
Ricardo Ramalho, George Helffrich, Michael Cosca, Derek Vance, Dirk Hoffmann, and Daniela N. Schmidt
Ocean Island Uplift, the Cape Verde Example
- A231 EGU2011-11713
Manoochehr Shirzaei, Thomas R. Walter, Hamid. R. Nankali, and Eoghan. P. Holohan
Gravity-driven deformation of Damavand volcano detected through InSAR time series
- A232 EGU2011-11425
Pietro Tizzani, Andrea Manconi, Giovanni Zeni, Antonio Pepe, Mariarosaria Manzo, Antonio Camacho, José Fernández, Paolo Berardino, Francesco Casu, and Riccardo Lanari
A unitary physical model for the long- and short-term deformation field revealed at Tenerife volcanic island

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

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

Room: 17

Chairperson: Carla Braitenberg

08:30–08:45 EGU2011-9268

Shin-Chan Han, Choon-Ki Lee, and Bernhard Steinberger

Influence of variable uncertainties in seismic tomography models on constraining mantle viscosity from geoid observations

- 08:45–09:00 EGU2011-6074
Hamayun Hamayun, Pavel Ditmar, Trampert Jeannot, and Tenzer Robert
 Towards improvement of the global Moho model using state-of-the-art models of the Earth's gravity field and additional information about the crust density structure
- 09:00–09:15 EGU2011-256
Tamara Yegorova, Tatiana Yanovskaya, Valentina Gobarenko, and Ekaterina Baranova
 Lithosphere structure of the Black Sea from 3D gravity analysis and seismic tomography
- 09:15–09:30 EGU2011-1113
Jörg Ebbing, Stewart Fishwick, Susan J. Webb, and Albert Eyike Yomba
 The link between upper mantle seismic velocity anomalies and the gravity field of Northern Africa
- 09:30–09:45 EGU2011-1387
Mikhail K. Kaban and T. Reiza Yuanda
 A new gravity model of Tien Shan: constraints for structure and evolution.
- 09:45–10:00 EGU2011-2379
Zhongjie Zhang, Sufang Zhang, and Carla Braitenberg
 Crustal density structure from gravity modelling beneath Himalaya and Lhasa terranes, Tibet

COFFEE BREAK

Chairperson: Hans-Jürgen Götze

- 10:30–10:45 EGU2011-2127
Jinyao Gao, Tao Zhang, Zhaocai Wu, Chunguo Yang, Zhongyan Shen, and Xiaowen Luo
 China's offshore gravity and magnetic measurement and interpretation
- 10:45–11:00 EGU2011-7174
Carla Braitenberg, Tommaso Pivetta, and Joerg Ebbing
 Unveiling the geodynamic context of geologic structures with satellite gravity
- 11:00–11:15 EGU2011-937
Benjamin D. Gutknecht, Nils Köther, Rezene Mahatsente, Hans-Jürgen Götze, and Monika Sobiesiak
 Towards asperity mapping using satellite-derived gravity gradients
- 11:15–11:30 EGU2011-4601
Icaro Vitorello, Naomi Ussami, Antonio L. Padilha, Carla Braitenberg, Marcelo B. Pádua, and Mauricio S. Bologna
 Lithospheric investigations of the intra-cratonic Paraná and Chaco-Paraná basins integrating terrestrial gravity, satellite gravity gradiometry, geomagnetic and electromagnetic soundings.
- 11:30–11:45 EGU2011-9130
Susann Wienecke, Christopher Stadtler, and Christine Fichler
 A novel approach setting boundary conditions in gravity field modelling
- 11:45–12:00 EGU2011-11503
Hartmut Wziontek, Reinhard Falk, Herbert Wilmes, Peter Wolf, Hayo Hase, Armin Boer, Ivan Cona, and Rongjiang Wang
 Co-seismic gravity changes at TIGO/Concepcion after the M8.8 Maule Earthquake, Chile measured by absolute and superconducting gravimeters in comparison with a viscoelastic-gravitational model

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

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

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Jörg Ebbing

- XY314 EGU2011-11304
 Michel Diamant, Isabelle Panet, Per Knudsen, Christian Tscherning, **Jérôme Benveniste**, Julien Penguen, and Gut team
 GOCE USER TOOLBOX and TUTORIAL FOR SOLID EARTH PHYSICS
- XY315 EGU2011-12037
Daniele Sampietro and Mirko Reguzzoni
 A study on the Austrian Moho from GOCE data
- XY316 EGU2011-9427
Everton Bomfim, Carla Braitenberg, and Eder Molina
 Tensor gradient field from GOCE as tool for gaining insight of the Amazon and the Solimões Basin, Brazil

- XY317 EGU2011-4679
Patrizia Mariani, Carla Braitenberg, and Naomi Ussami
Unveiling the border of a craton by the gravity gradient with examples from the Parana' basin
- XY318 EGU2011-9550
Robert Tenzer, Vladislav Gladkikh, Hamayun Hamayun, Pavel Novak, and Peter Vajda
The crust-mantle density contrast estimated based on EGM2008, DTM2008, CRUST2.0 and ICE-5G
- XY319 EGU2011-9535
Robert Tenzer, Vladislav Gladkikh, and Pavel Novak
The high-degree constituents of the bathymetric stripping corrections to gravity field quantities
- XY320 EGU2011-9502
Pavel Novak, Vladislav Gladkikh, and Robert Tenzer
Two empirical seawater density models estimated based on the analysis of WOA09 and WOCE-04 oceanographic data
- XY321 EGU2011-9674
Robert Tenzer, Abdalla Ahmed, **Pavel Novak**, Peter Vajda, and Artu Ellmann
A spectral modelling of the gravitational contribution of the far-zone topography
- XY322 EGU2011-734
Ramin Kiamehr
A New Moho Depth Model for Iran Based on the High Resolution EGM2008 Global Geopotential Model
- XY323 EGU2011-8202
Lester Anderson, Fausto Ferraccioli, Tom Jordan, Tony Watts, Egidio Armadillo, Charlotte Moss, and Emanuele Bozzo
Crustal root related to magmatic underplating beneath the Transantarctic Mountains: new evidence from gravity data
- XY324 EGU2011-208
Hakan Alp, Huseyin Tur, and A. Muhittin Albora
Investigation of The Tectonic Structure of Cilicia Basin by Applying Wavelet Analysis Method to Gravity Data
- XY325 EGU2011-6111
Ya Xu, **Tianyao Hao**, Weiwei Jiang, Zhiwei Li, and Song Huang
The deep crust structure of Bohai Sea from gravity and magnetic study
- XY326 EGU2011-8421
Ingo Heyde, Dieter Franke, Ralf Freitag, Christoph Gaedicke, and Nikolay Tsukanov
Marine geophysical measurements in the northernmost part of the Emperor Seamount Chain in the Northwest Pacific
- XY327 EGU2011-2004
Andrew N. Grushinsky and Evgeny D. Koryakin
Mantle gravity anomalies in Greenland
- XY328 EGU2011-6978
Gerald Gabriel and Peter Skiba
Gravity anomalies and disturbances in Germany - a new homogenous, high-resolution compilation
- XY329 EGU2011-7471
Oya Pamukçu, Hasan Sözbilir, Emir Y. Ersay, and Ayça Yurdakul
The use of microgravity modelling for understanding of the tectonic activity in Izmir, Western Anatolian Region, Turkey
- XY330 EGU2011-2533
Tolga Gönenç and **Mustafa Ergün**
Crustal Structure around the Marmara Sea and the Western Black sea
- XY331 EGU2011-10050
Riccardo Riva and Rob Govers
Postseismic deformation following the 2004 Sumatra-Andaman earthquake from dedicated post-processing of GRACE data
- XY332 EGU2011-7426
Milos Valko and Vojtech Pálinkás
Improved Data Quality Control and Calibration of the Superconducting Gravimeter OSG-050 at the Station PecnĀ½
- XY333 EGU2011-12474
Bruno Meurers, Manfred Dorninger, and Norbert Blaumoser
Atmospheric signals in the SG gravity record at Conrad Observatory, Austria
- XY334 EGU2011-13131
Elsayed Issawy, Jan Mrlina, Anwar Radwan, and Salah Mahmoud
Temporal gravity changes with correlation to seismicity and geodetic data for crustal deformation studies in Egypt
- XY335 EGU2011-2359
Evgeny Spiridonov, Olga Vinogradova, Ernst Boyarskiy, and Larisa Afanasyeva
The Effect Of Local Peculiarities In the Upper Mantle And Lithosphere Structures On Ocean Loading Gravity Corrections

- XY336 EGU2011-11085
Hannu Ruotsalainen
 Comparing ocean tide loading models for Nearly Diurnal Free Wobble (NDWF) analysis of tidal gravity and tilt observations recorded in southern Finland
- XY337 EGU2011-12577
Dave May and Matthew G. Knepley
 Optimal, scalable forward models for gravity computations
- XY338 EGU2011-11939
Gabriel Strykowski
 Inverse Gravimetric Problem: Faroe Islands gravity data revisited
- XY339 EGU2011-12414
Kerem Halicioğlu, Haluk Ozener, and Rasim Deniz
 Astro-geodetic Measurements using Digital Zenith Camera System in Istanbul-Turkey

G5.3 – Determination of Mass Transport and Distribution in the Earth System – Posters

Convener: Johannes Riegger | Co-Conveners: Juergen Kusche, Tonie van Dam

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Tonie van Dam

- XY340 EGU2011-3851
Keven Roy and Richard Peltier
 Secular Trends in Earth Rotation Parameters in the GRACE Era: A Global Scale Impact of the Global Warming Process
- XY341 EGU2011-6253
 Sandra-Esther Brunnabend, **Jens Schroeter**, Ralph Timmermann, Roelof Rietbroek, and Juergen Kusche
 Decadal sea level change due to Greenland Ice Sheet melting
- XY342 EGU2011-7592
Laura Jensen, Annette Eicker, and Jürgen Kusche
 Greenland ice mass balance estimation from GRACE: a reexamination
- XY343 EGU2011-4317
Andreas Richter, Jose Luis Hormaechea, Raul Perdomo, Luciano Mendoza, Daniel Del Cogliano, Mathias Fritsche, Mirko Scheinert, and Reinhard Dietrich
 Ocean tidal loading effects in Tierra del Fuego (Argentina): observations and modelling
- XY344 EGU2011-8343
Roman Savcenko, Madlen Gebler, and Wolfgang Bosch
 Validation of recent tide models by means of crossover differences and time series of bottom pressure and tide gauges
- XY345 EGU2011-11441
Silvia Becker, Wolf-Dieter Schuh, Martin Losch, and Grit Freiwald
 Rigorous Fusion of Gravity Field, Altimetry and Stationary Ocean Models
- XY346 EGU2011-11948
Inga Bergmann, Henryk Dobslaw, and Maik Thomas
 Variability of the Antarctic Circumpolar Current deduced from time-variable GRACE gravity fields
- XY347 EGU2011-7455
 Isabelle Panet, **Mioara Manda**, Vincent Lesur, Michel Diament, and Olivier de Viron
 Core signals in magnetic and gravity satellite data
- XY348 EGU2011-9548
Lei Wang, C.k. Shum, Frederik J. Simons, Andrés Tassara, Kamil Erkan, Chunli Dai, Thomas Gruber, Reiner Rummel, and Claudia Stummer
 2010 M8.8 Chilean Maule Earthquake Coseismic Deformation Using Spaceborne Gravimetry
- XY349 EGU2011-10224
Filippo Santolini, Gabriele Cambiotti, and Roberto Sabadini
 Sea level feedback for 2004 Sumatra and 2010 Maule earthquakes.
- XY350 EGU2011-10098
Roelof Rietbroek, Mathias Fritsche, Madlen Gebler, Sandra-Esther Brunnabend, Ilias Daras, Jürgen Kusche, Jens Schröter, Frank Flechtner, and Reinhard Dietrich
 Improved surface loading from GRACE and GPS and OBP combination
- XY351 EGU2011-10119
Dudy D. Wijaya, Johannes Böhm, Michael Schindelegger, Maria Karbon, and Harald Schuh
 Determination and Validation of the Vienna Atmospheric Pressure Loading Corrections
- XY352 EGU2011-11502
Ilias Daras, Christian Gruber, Martin Schmeer, Christoph Dahle, and Frank Flechtner
 A validation toolbox for time variable gravity fields from GRACE

- XY353 EGU2011-11797
Thomas Kluegel and Hartmut Wziontek
 ATMACS - Atmospheric Attraction Computation Service basing on operational Weather Models
- XY354 EGU2011-12202
Luciana Fenoglio-Marc, Matthias Becker, Roelof Rietbroek, Juergen Kusche, Sebastian Grayek, Emil Stanev, Tim Aus der Beek, and Lucas Menzel
 Water mass variation in southern Europe: assessment of observations, models and relation to climate change
- XY355 EGU2011-12678
 Heikki Virtanen, **Jaakko Mäkinen**, Arttu Raja-Halli, Tero Hokkanen, and Risto P. Mäkinen
 Contribution of local hydrology to gravity variation observed with the superconducting gravimeter at Metsähovi, Finland: more sensors and modelling
- XY356 EGU2011-4633
Jun Nishijima, Yoichi Fukuda, Yayan Sofyan, Makoto Taniguchi, Hasanuddin Z. Abidin, and Robert Delinom
 Groundwater level monitoring using A10 absolute gravimeter
- XY357 EGU2011-13071
 Sina Taghvakish and **Holger Steffen**
 Short-term flood prediction and monitoring by combining GRACE and SAR measurements: case study Red River
- XY358 EGU2011-1672
Srinivas Bettadpur and the CSR Level-2 Team
 Assessments of GRACE Next Generation Gravity Field Data Products

ML10 – Vening Meinesz Medal Lecture by Harald Schuh (co-listed) – Orals

Convener: Markku Poutanen

Room: 18

Chairperson: Markku Poutanen

- 19:00–20:00 EGU2011-14181
Harald Schuh
 VLBI: A Fascinating Technique for Geodesy and Astrometry (Vening Meinesz Medal Lecture)

Friday, 08 April

G1.1 – Recent Developments in Geodetic Theory – Orals

Convener: Petr Holota | Co-Conveners: Bernhard Heck, Nico Sneeuw

Room: 18

Chairperson: P. Holota and N. Sneeuw

- 08:30–08:45 EGU2011-8172
Róbert ?underlík, Karol Mikula, and Martin Tunega
Data filtering on the Earth's surface using linear and nonlinear diffusion equations
- 08:45–09:00 EGU2011-10170
Christian Gruber, Pavel Novak, and Franz Barthelmes
Derivation of topographic potential from global DEM models
- 09:00–09:15 EGU2011-13386
Otakar Nesvadba
Nothing to fear from ellipsoidal harmonics
- 09:15–09:30 EGU2011-12631
Juraj Janák, Janka Gírethová, Martin Pito?ák, and Zuzana Fašková
Empirical test of optimal geometry of boundary value problem domain for regional applications using GOCE measurements
- 09:30–09:45 EGU2011-9764
Juergen Kusche, Roelof Rietbroek, and Ehsan Forootan
Signal separation: the quest for independent mass flux patterns in geodetic observations
- 09:45–10:00 EGU2011-13767
Yan Ming Wang, Chi-Hsun Huang, Sandra Ann Preaux, Jarir Saleh, Simon Anthony Holmes, Xiaopeng Li, and Daniel Roman
Error analysis of the airborne gravity data collected over Alabama in 2008
- 10:00–10:15 EGU2011-6886
Hansjoerg Kutterer and **Andrea Heiker**
Assessing the accuracy of models by the integration of observations and models in a least squares adjustment model

G1.1 – Recent Developments in Geodetic Theory – Posters

Convener: Petr Holota | Co-Conveners: Bernhard Heck, Nico Sneeuw

Halls X/Y | Display Time 08:00–17:00

Author in Attendance: 13:30–15:00

Chairperson: n.n.

- XY129 EGU2011-1338
Georgios Panou, Nikos Yannakakis, and Demetris Delikaraoglou
An analysis of the linear fixed altimetry-gravimetry boundary value problem
- XY130 EGU2011-13551
Petr Holota
Combination of satellite and terrestrial gravity field data in a domain of mild flattening
- XY131 EGU2011-13775
Mohamed M. Elhabiby, Michael G. Sideris, and **Wolfgang Keller**
A combined multi-resolution multi-dimensional wavelet approach for the inversion of geodetic integrals
- XY132 EGU2011-1801
Elena Mazurova and Aleksandra Kozlova
About calculation of the components of the deflection of the vertical through discrete linear transformations
- XY133 EGU2011-54
Gerassimos Manoussakis
Spanner Surfaces, an application to the normal gravity field
- XY134 EGU2011-7268
WenBin Shen
A new formulation of Stokes approach in determining the geoid
- XY135 EGU2011-535
Hussein Abd-Elmotaal and Norbert Kuehtreiber
Improved Earth Model for Geoid Determination
- XY136 EGU2011-2298
Jitka Hájková
Local geoid determination based on land gravity data

- XY137 EGU2011-9787
Georgios S. Vergos and Ilias N. Tziavos
 An investigation of the common adjustment between GPS, geoid and orthometric heights in a network of BMs in northern Greece with the recent GOCE-based GGMS and local geoid models
- XY138 EGU2011-11377
 Cédric Champollion, **Jean Chéry**, Sabrina Deville, Nicolas Le Moigne, and Roger Bayer
 The progress of micro-gravity relative measurements accuracy
- XY139 EGU2011-13486
Otakar Nesvadba and Martin Lederer
 Data processing based on deterministic neural network in applied gravimetry
- XY140 EGU2011-5017
Tianhe Xu, Kaifei He, Nan Jiang, and Zhangzhen Sun
 Improving Adaptive Stochastic Modelling for Kalman Filter and Its Applications
- XY141 EGU2011-24
Noureddine kheloufi, Sidahmed Medjahed, and Houaria Tabeti
 Total electronic content of ionosphere and its effect on GPS Signal: stochastic approach analysis
- XY142 EGU2011-4699
shirzad roohi and Nikrouz Mostofi
 Determination amount of noise in GPS position time series of local Geodynamic network
- XY143 EGU2011-1649
D. Ugur Sanli and Fatih K. Kurumahmut
 Performance of OPUS-RS in the presence of large height differences: A User Assessment

G1.2/EMRP4 – Mathematical methods in the analysis and interpretation of potential field data and other geodetic time series (co-organized) – Orals

Convener: Volker Michel | Co-Conveners: Aude Chambodut, Mohamed HAMOUDI, Wieslaw Kosek, Jürgen Kusche, Michael Schmidt, Frederik J. Simons

Room: 17

Chairperson: V. Michel

- 10:30–10:45 EGU2011-12405
André Horbach and Hans-Peter Bunge
 An efficient analytic method to derive geoids from geodynamic models
- 10:45–11:00 EGU2011-2106
Oliver Baur and Nico Sneeuw
 Assessing Greenland ice mass loss by means of point-mass modelling: a viable methodology
- 11:00–11:15 EGU2011-7246
Ehsan Forootan and Jürgen Kusche
 A non-Gaussian decomposition of GRACE-derived climate signals, using Independent Component Analysis (ICA)
- 11:15–11:30 EGU2011-10013
Enrico Kurtenbach, Torsten Mayer-Gürr, and Annette Eicker
 The ITG-Grace2010 Kalman filter approach - Some insights
- 11:30–11:45 EGU2011-8796
Katrin Bentel, Gabriel Goebel, Michael Schmidt, and Christian Gerlach
 Artificial effects in regional gravity field representation caused by point grids of input data and localizing base functions
- 11:45–12:00 EGU2011-210
Hakan Alp, A. Muhittin Albora, and Huseyin Tur
 Determining of lineaments of Iskenderun Basin (Southern Turkey) using Wavelet Transformation
- 12:00–12:15 EGU2011-5120
Fotini Vervelidou and Erwan Thébault
 A robust estimate of the lithospheric magnetic field over South Africa using statistical and bayesian-like approaches

G1.2/EMRP4 – Mathematical methods in the analysis and interpretation of potential field data and other geodetic time series (co-organized) – Posters

Convener: Volker Michel | Co-Conveners: Aude Chambodut, Mohamed HAMOUDI, Wieslaw Kosek, Jürgen Kusche, Michael Schmidt, Frederik J. Simons

Halls X/Y | Display Time 08:00–17:00

Author in Attendance: 13:30–15:00

Chairperson: V. Michel

- XY144 EGU2011-3299
Ondrej Soucek, Zdenek Martinec, and Jakub Velimsky
Quasi-static electromagnetic induction in spherical Earth: Vector potential formulation.
- XY145 EGU2011-1820
Tao Xing
The disquisition on magnetic basement and magmatic activity in the South Yellow Sea
- XY146 EGU2011-11553
Isabel Blanco-Montenegro, Fuensanta G. Montesinos, Iacopo Nicolosi, Alessandro Pignatelli, José Arnoso, and Massimo Chiappini
Potential field anomalies as a tool for imaging the inner structure of volcanic islands: the case of La Gomera (Canary Islands)
- XY147 EGU2011-1061
Volker Michel and Doreen Fischer
Locally adapted resolutions for potential field modelling and inversion
- XY148 EGU2011-1207
Doreen Fischer and Volker Michel
The Amazon Watershed - Sparse Regularization of Inverse Gravimetry
- XY149 EGU2011-2581
Lucia Seoane, **Guillaume Ramillien**, Frédéric Frappart, Richard Biancale, Serge Gratton, and Xavier Vasseur
Validation of constrained regional solutions of water mass change derived from GRACE KBRR data
- XY150 EGU2011-13154
Sandra Preaux, Theresa Diehl, Chris Huang, and Carly Weil
A Comparison of Filtering Techniques for Airborne Gravity Data
- XY151 EGU2011-5147
Robert Tenzer and Vladislav Gladkikh
Analysis of the atmospheric pressure loading in New Zealand
- XY152 EGU2011-5151
Robert Tenzer and Vladislav Gladkikh
Comparison of the global ocean tide models TPXO7.2, GOT00.2, NAO.99b, FES2004, and EOT10a in New Zealand
- XY153 EGU2011-355
Erdinc Oksum and Z.Mumtaz Hisarli
Estimation of the average crustal density and its contrast to the mantle in the Eastern Anatolia, Turkey
- XY154 EGU2011-1909
Janusz Bogusz and Anna Klos
Wavelet analysis for investigation of precise GNSS solutions' credibility
- XY155 EGU2011-6613
Matthias Hackl, Rocco Malservis, and Urs Hugentobler
Time correlated noise vs. transient in GPS time series
- XY156 EGU2011-2034
Wieslaw Kosek, Waldemar Popiński, and Tomasz Niedzielski
An investigation into oscillations polarization in the geodetic and fluid excitation functions of polar motion
- XY157 EGU2011-3567
Brian Luzum, Wieslaw Kosek, Nathan Shumate, and Maciej Kalarus
The IERS Earth Orientation Parameters Combination of Prediction Pilot Project (EOPCPPP)

G2.4 – Space vehicle dynamics as applied to precise orbit determination and validation: pushing the edge of the envelope – Orals

Convener: Marek Ziebart | Co-Conveners: Urs Hugentobler

Room: 17

Chairperson: Marek Ziebart and Urs Hugentobler

- 08:30–08:45 EGU2011-3774
Jim R Ray and Jake Griffiths
Status of IGS Orbit Modeling and Areas for Improvement
- 08:45–09:00 EGU2011-3878
Hongzheng Cui, Maorong Ge, Chao Han, and Jens Wickert
Improving Real-Time GNSS Satellite Orbit Determination with Data from Low Earth Orbiting Satellites
- 09:00–09:15 EGU2011-7331
Sylvain Loyer, Perosanz Felix, Mercier Flavien, and Capdeville Hugues
Comparison of different Radiation Pressure models for GNSS orbit determination
- 09:15–09:30 EGU2011-9059
Moriba Jah
Improved Methods for Tracking and Characterizing Inactive Resident Space Objects

- 09:30–09:45 EGU2011-3295
Rolf Dach, **Adrian Jäggi**, Heike Bock, Gerhard Beutler, Oliver Montenbruck, Ralf Schmid, and Yago Andres
Extending the GPS satellite antenna patterns of the IGS to nadir angles beyond 14° using LEO data
- 09:45–10:00 EGU2011-11687
Roberto Peron and **David Lucchesi**
Precise Orbit Determination of LAGEOS satellites: recent results on fundamental physics
- 10:00–10:15 EGU2011-3411
Michiel Otten, Claudia Flohrer, Tim Springer, Rene Zandbergen, and Drazen Svehla
Generating precise and homogeneous orbits for ERS-1, ERS-2, Envisat, Cryosat-2, Jason-1 and Jason-2.

G2.4 – Space vehicle dynamics as applied to precise orbit determination and validation: pushing the edge of the envelope – Posters

Convener: Marek Ziebart | Co-Conveners: Urs Hugentobler

Halls X/Y | Display Time 08:00–17:00

Author in Attendance: 13:30–15:00

Chairperson: Marek Ziebart and Urs Hugentobler

- XY158 EGU2011-2151
Kirco Arsov
On Earth's Gravity Field recovery from Satellite Orbit Perturbations
- XY159 EGU2011-2697
Stavros A Melachroinos, Frank G Lemoine, Nikita P Zelensky, David D Rowlands, Changxue Deng, and Despina E Pavlis
Status of Precise Orbit Determination for Jason-2 using GPS, SLR, DORIS data at NASA/GSFC
- XY160 EGU2011-2949
Paul Swatschina, Oliver Montenbruck, Heike Bock, and Adrian Jäggi
Dynamical constraints and their impact on the mean levelling of GOCE precise orbit determination solutions
- XY161 EGU2011-12449
Jean-Michel Lemoine, Richard Biancale, Sean Bruinsma, Stéphane Bourgogne, Pascal Gégout, and Jean-Charles Marty
New realization of time-varying mean gravity field model based on 8 years of GRACE data
- XY162 EGU2011-4099
Elco Doornbos, Marek Ziebart, and Georg Koppenwallner
Evaluation of aerodynamic and radiation pressure force models using accelerometer data
- XY163 EGU2011-6030
Adrian Jaeggi, Heike Bock, Rolf Koenig, Yongjin Moon, Martin Wermuth, and Oliver Montenbruck
Inter-agency comparison of TerraSAR-X/TanDEM-X baseline solutions
- XY164 EGU2011-6049
Laurent Soudarin, Hugues Capdeville, and Jean-Michel Lemoine
DORIS orbit determination and validation at CNES/CLS Analysis Center
- XY165 EGU2011-6116
Krzysztof Sołnica, Daniela Thaller, Adrian Jäggi, Rolf Dach, and Gerhard Beutler
Validation of Earth's gravity field models using LAGEOS
- XY166 EGU2011-8190
Marek Ziebart
Overview of satellite surface force modelling for science and space geodesy
- XY167 EGU2011-8470
Nicolas Picot, Francois Boy, and Luca Cerri
CryoSat Orbit Accuracy Assessment based on Multi Satellite Cross over Reduction Technic over Ocean
- XY168 EGU2011-8540
Luca Cerri, **Flavien Mercier**, Alexandre Couhert, and Sabine Houry
Precise Orbit Determination for Altimetry Missions : Current Status and Prospects for the Future
- XY169 EGU2011-9824
Carlos Rodriguez Solano, Urs Hugentobler, and Peter Steigenberger
Adjustable box-wing model for solar radiation pressure impacting GNSS satellites
- XY170 EGU2011-9943
Carlos Rodriguez Solano, Urs Hugentobler, and Peter Steigenberger
Earth radiation pressure model for GPS satellites
- XY171 EGU2011-12133
Jakob Flury, Tamara Bandikova, Robbie Robertson, and Peterseim Nadja
GRACE as geodetic precision space laboratory

- XY172 EGU2011-12263
Florian Dilssner, Michiel Otten, Tim Springer, Claudia Flohrer, Drazen Svehla, and Rene Zandbergen
 GPS satellite antenna parameters from combined ground-based and space-borne data processing
- XY173 EGU2011-1914
Sergei Rudenko, Michiel Otten, Pieter Visser, Remko Scharroo, and Tilo Schöne
 Improvements in ERS-1 and ERS-2 precise orbit determination

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

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

Room: 27

Chairperson: Shirzaei/Lanari

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

COFFEE BREAK

Chairperson: Lanari/Walter

- 10:30–10:45 EGU2011-12489
 Francesco Casu, Andrea Manconi, **Mariarosaria Manzo**, Antonio Pepe, Giuseppe Solaro, and Riccardo Lanari
 Selected case studies in advanced DInSAR analysis of seismogenic areas
- 10:45–11:00 EGU2011-2353
Semih Ergintav, Ziyadin Cakir, Ugur Dogan, and Mustafa Bas
 Monitoring Surface Deformation in Istanbul and Western Termination of the 1999 Izmit Earthquake Rupture (Turkey) Using PSInSAR and GPS Measurements
- 11:00–11:15 EGU2011-12410
Marcello de Michele, Daniel Raucoules, Paulino Feitio, Pierre Briole, and Joao Fonseca
 The Machaze (Mw 7, 2006, Mozambique) Earthquake: co- and post-seismic surface displacement characterisation using multiband InSAR.
- 11:15–11:30 EGU2011-11613
Manoochehr Shirzaei, Thomas R. Walter, James Foster, and Benjamin Brooks
 Aseismic block movement of southern flank of Kilauea revealed by wavelet analysis of InSAR and GPS time series
- 11:30–11:45 EGU2011-10938
Panagiotis Elias, Pierre Briole, and Olga Sykioti
 Synergy of SAR acquisitions for ground deformation monitoring by means of PSI, SBAS and DInSAR. Case study of western rift of Corinth, Greece
- 11:45–12:00 EGU2011-6553
Miguel Caro Cuenca and Ramon Hanssen
 On the origin of the recent surface deformation observed in the Roer Valley Rift System, the southern Netherlands, after spaceborne radar time series analysis

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

Convener: Ramon Carbonell | Co-Conveners: CharLotte Krawczyk

Halls X/Y | Display Time 08:00–17:00

Author in Attendance: 10:30–12:00

Chairperson: Ramon Carbonell

- XY475 EGU2011-1843
Young-Fo Chang, Chih-Hsiung Chang, Li-Chung Sun, and Chia-Lung Chung
 Physical modeling studying the travel times and reflection points of SH-waves reflected from transversely isotropic media with a tilted symmetry axis
- XY476 EGU2011-1850
Woo-Dong Lee, Bong-Gon Jo, Sat-Byul Jung, Min-Seok Ko, and Seok-Tae Lee
 Effects of typhoons on microseisms observed from the short period array records
- XY477 EGU2011-3076
Jaromir Jansky, Oldrich Novotny, Jiri Zahradnik, and Efthimios Sokos
 Problematic earthquake location from P-arrival times jointly used at near and distant stations
- XY478 EGU2011-3215
Bo Holm Jacobsen and Lasse Svenningsen
 Robust receiver function interpretation by comparative processing and imaging
- XY479 EGU2011-3973
Kim Bak Olsen and Bo Holm Jacobsen
 Spatial Variability of Ground Motion Amplification From Low-Velocity Sediments Including Fractal Inhomogeneities with special reference to the Southern California Basins
- XY480 EGU2011-9048
Ortensia Amoroso, Nils Maercklin, and Aldo Zollo
 S-wave identification by polarization filtering and waveform coherence analysis
- XY481 EGU2011-4135
Chih-Hsiung Chang, Young-Fo Chang, and Po-Yen Tseng
 Surveying a dome structure from a transversely isotropic medium
- XY482 EGU2011-4337
Wen-che Yu, Teh-Ru Alex Song, and Paul Silver
 Temporal velocity changes in the deep crust driven by aseismic afterslip of the great Sumatra earthquakes
- XY483 EGU2011-4396
Laetitia Mozziconacci, Bertrand Delouis, Nicole Béthoux, and Bor-Shouh Huang
 Coseismic slip distribution of the second main event (Mw 6.0) of the April 2006 Taitung crisis (SE Taiwan)
- XY484 EGU2011-4688
Aurelie Guilhem and Douglas S. Dreger
 Rapid detection of large subduction zone earthquakes using quasi-finite-source Green's functions in moment tensor inversion
- XY485 EGU2011-5437
Teruyuki Kato and Takuji Ebinuma
 Dynamic Characteristics of High-Rate GPS Observations for Seismology
- XY486 EGU2011-5910
Shiann-Jong Lee, Hui-Wen Cheng, and Wen-Tzong Liang
 Real-time computational seismology earthquake report: An example from Taiwan
- XY487 EGU2011-5985
Sebastiano D'Amico, Domenico Caccamo, Fabio M. Barbieri, Caterina Lagana, and Francesco Parrillo
 Time clustering of seismicity: case of the Chile-Peru seismic sequences
- XY488 EGU2011-6119
Bogdan Grecu, Cristian Neagoe, Dragos Tataru, Constantin Ionescu, and Alexandru Marmureanu
 Seismic Noise Characteristics at the Romanian Broadband seismic stations
- XY489 EGU2011-6202
Hana ?ermáková, Jan Michálek, Josef Horálek, Gunnar B. Guðmundsson, Steinunn S. Jakobsdóttir, and Hjörleifur Sveinbjörnsson
 Earthquake swarms - comparison between West Bohemia and southwest Iceland
- XY490 EGU2011-6283
Dragos Tataru, Bogdan Grecu, Victor Raileanu, Graham Stuart, and Gregory Houseman
 Crustal structure of the Transylvanian Basin and South Carpathian mountains, Romania, from receiver function analysis
- XY491 EGU2011-6485
 Salvatore Alparone, Salvatore D'Amico, Vincenza Maiolino, and **Andrea Ursino**
 Mt. Etna seismicity (1988-2010): evidence of the space-time evolution of seismic activity

- XY492 EGU2011-7090
Maxime Godano, Jean Charléty, Françoise Courboux, Anne Deschamps, Perrine Deshayes, Gabriele Ferretti, Christophe Larroque, Thomas Romero, Jerome Salichon, and Daniele Spallarossa
 The October-November 2010 seismic crisis near Sampeyre (Piemonte Region, Italian Alps) - Preliminary results.
- XY493 EGU2011-7624
Maxime Godano, Sophie Lambotte, Anne Deschamps, Hélène Lyon-Caen, and Pascal Bernard
 Analysis of the earthquakes swarms during the 2001-2009 period in the western part of the Corinth rift (Greece)
- XY494 EGU2011-7794
Andreas Hoechner and Stephan V. Sobolev
 Deriving Earthquake Rupture Timing from GPS observations
- XY495 EGU2011-9582
 Martonni Alves Bomfim Santos and **Wilson Mouzer Figueiró**
 Seismological Modeling of Traveltime Curves with Global Velocity Field Parameterized by Trigonometric Series
- XY496 EGU2011-10997
Kasper D. Fischer and the Egelados Working Group Team
 Static displacements and stress changes of the Kythira 2006 Earthquake
- XY497 EGU2011-11636
Giada Adelfio, Marcello Chiodi, Antonino D'Alessandro, and Dario Luzio
 GLM-based automatic picking of waveforms
- XY498 EGU2011-11673
Ruben Luis, Rita Marques, Rogério Sousa, Ana Medeiros, Nuno Cabral, Rita Carmo, Teresa Ferreira, João Gaspar, and Nicolau Wallenstein
 Recent Seismic Activity in the Mid-Atlantic Ridge at the Azores Region
- XY499 EGU2011-11806
Alice Gabriel, Jean-Paul Ampuero, Luis A. Dalguer, and P. Martin Mai
 Macroscopic Source Properties From Dynamic Rupture Simulations With Off-Fault Plasticity
- XY500 EGU2011-11952
Simona Colombelli, Antonio Emolo, and Aldo Zollo
 Peak-Duration magnitude for the Irpinia Seismic Network, Southern Italy
- XY501 EGU2011-1683
Lucian Besutiu
 New considerations on the intermediate depth seismicity of the Vrancea zone: the unstable triple-junction
- XY502 EGU2011-2504
Yan Jia and Wolfgang Lenhardt
 Peak Ground Acceleration and Station Site Effect in Austria
- XY503 EGU2011-6559
Lukasz Rudzinski and Wojciech Debski
 Extending the Double Difference location technique for mining applications: Numerical study.
- XY504 EGU2011-2743
Jiri Vackar and Jiri Zahradnik
 Fast long-period waves in near-regional records of a shallow earthquake
- XY505 EGU2011-4642
Iktri Madrinovella, Sri Widiyantoro, and Irwan Meilano
 Hypocenter relocation of the September 30th 2009 Padang Earthquake using Hypo-DD

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

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

Room: 26

Chairperson: Maria V.S. Ask

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

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

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

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

Halls X/Y | Display Time 08:00–17:00

Author in Attendance: 10:30–12:00

Chairperson: Ilmo T. Kukkonen

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

G5.3 – Determination of Mass Transport and Distribution in the Earth System – Orals

Convener: Johannes Riegger | Co-Conveners: Juergen Kusche, Tonie van Dam

Room: 18

Chairperson: Juergen Kusche

- 10:30–10:45 EGU2011-2323
Richard Peltier, Rosemarie Drummond, and Kevin Roy
 Geoid Stokes coefficient variations due to global glacial isostatic adjustment
- 10:45–11:00 EGU2011-5797
Mohammad Javad Tourian, Johannes Riegger, and Nico Sneeuw
 Long-range spatial correlations in GRACE products: a matter of S2-tidal aliasing?
- 11:00–11:15 EGU2011-8510
Nadya Vinogradova, Rui Ponte, Mark Tamisiea, Katherine Quinn, Emma Hill, and Jim Davis
 Model and GRACE analyses of self-attraction and loading effects on ocean mass redistribution
- 11:15–11:30 EGU2011-10211
Gabriele Cambiotti, Andrea Bordon, Roberto Sabadini, Lorenzo Colli, and Filippo Santolini
 GRACE gravity data help constraining seismic models of the 2004 Sumatran earthquake
- 11:30–11:45 EGU2011-7766
Martin Horwath, Ingo Sasgen, Benoît Legrésy, Frédérique Rémy, Fabien Blarel, Jean-Michel Lemoine, Henryk Dobslaw, Zdenek Martinec, and Maik Thomas
 Antarctic ice mass balance from satellite geodesy: understanding the signal beyond linear trends

- 11:45–12:00 EGU2011-11373
Scott Luthcke, Terence Sabaka, David Rowlands, John McCarthy, Bryant Loomis, Jean-Paul Boy, Frank Lemoine, and Terry Williams
 GRACE Observations of Land Ice Evolution: Signal and Error Analysis

LUNCH BREAK

Chairperson: Johannes Riegger

- 13:30–13:45 EGU2011-4704
Jens Schröter
 Mass Transports, Space Geodesy and the Ocean
- 13:45–14:00 EGU2011-9307
Wolfgang Bosch and Roman Savcenko
 Long-term evolution of the dynamic ocean topography as observed by satellite altimetry and GOCE
- 14:00–14:15 EGU2011-3789
 Don Chambers, **Jennifer Bonin**, and James Famiglietti
 Ocean Mass Variations from 2003 to 2011: Implications for the Global Water Cycle
- 14:15–14:30 EGU2011-8528
Jianli Chen
 Understanding large-scale climate change events using satellite gravimetry
- 14:30–14:45 EGU2011-10077
Annette Eicker, Enrico Kurtenbach, Torsten Mayer-Gürr, Jürgen Kusche, Petra Döll, Heike Hoffmann-Dobrev, Linda Adam, Matthias Holschneider, and Marcel Fuhrmann
 Mutual benefits of GRACE gravity field analysis and global hydrological modeling
- 14:45–15:00 EGU2011-5802
Laurent Longuevergne, Bridget R. Scanlon, and Clark R. Wilson
 Turning GRACE into a tool for hydrological monitoring

GI-12 – 3D Modelling in Earth Sciences (co-listed) – Orals

Convener: Alexander Lukeneder | Co-Conveners: Susanne Mayrhofer, Ulrike Exner, Robert Marschallinger

Room: 42

Chairperson: Robert Marschallinger

- 08:30–08:45 EGU2011-1213
Adam Maloof, Robert Beach, Sigfus Breidfjord, Basar Girit, Aleksey Lukyanov, Westley Rozen, Bradley Samuels, Catherine Rose, Claire Calmet, and Douglas Erwin
 3D models of probable animal body-fossils from pre-Marinoan limestones, South Australia
- 08:45–09:00 EGU2011-4452
Russell Garwood and Mark Sutton
 Tomographic reconstruction in palaeontology
- 09:00–09:15 EGU2011-9914
Danièle Gaspard, Benita Putlitz, and Lukas Baumgartner
 Micro CT for 3-D reconstruction of brachiopod shells interior: an alternative to destructive serial sections
- 09:15–09:30 EGU2011-2515
Christoph Leitner, Robert Marschallinger, and Franz Neubauer
 3D-Modelling of deformed salt cubes: A contribution to paleostress analysis
- 09:30–09:45 EGU2011-5798
Markus Tuller, Carlos M.P. Vaz, Paulo O. Lasso, and Ramaprasad Kulkarni
 A New Generation of High-Resolution Benchtop Micro-CT Scanners for Application in Earth Sciences
- 09:45–10:00 EGU2011-7601
Tim Kearsley, Joanne E. Merritt, Mike McCormac, Alison A. Monaghan, Ricky L. Terrington, David J.D. Lawrence, and Seumas D. G. Campbell
 Making geological data accessible to non-geoscientists: a 3D model case history from Glasgow, U.K.

COFFEE BREAK

Chairperson: Ulrike Exner

- 10:30–10:45 EGU2011-4177
Peter Wycisk, Tobias Hubert, Ronny Laehne, Michael Wagner, and Wolfgang Gossel
 High resolution 3D stratigraphical geological models - concepts and options
- 10:45–11:00 EGU2011-11746
Kenneth McCaffrey, Richard Jones, Jamie Pringle, Alodie Bubeck, Maxwell Wilkinson, and Gerald Roberts
 3D structural and stratigraphical models from laser scan outcrop datasets
- 11:00–11:15 EGU2011-12669
Tobias Kurz, Simon Buckley, John Howell, and Danilo Schneider
 3D modelling of geological outcrops using combined terrestrial laser scanning and hyperspectral imaging
- 11:15–11:30 EGU2011-7544
Graham Leslie, Mark R. Cooper, Brian McConnell, Sarah L.B. Arkley, Stephen J. Mathers, Benjamin Wood, and Holger Kessler
 Toward a 3D crustal-scale, onshore and offshore, geological model of Britain and Ireland.
- 11:30–11:45 EGU2011-7614
Erik Vest Sørensen and Asger Ken Pedersen
 Digital multi-model photogrammetric mapping of dyke patterns in the Disko and Nuussuaq region, West Greenland: Methods and results
- 11:45–12:00 EGU2011-8778
Fritz Zobl, Robert Faber, and Robert Marschallinger
 Combining solid- and voxel modelling in one 3D modelling framework at a landslide site

GI-12 – 3D Modelling in Earth Sciences (co-listed) – Posters

Convener: Alexander Lukeneder | Co-Conveners: Susanne Mayrhofer, Ulrike Exner, Robert Marschallinger

Hall A | Display Time 08:00–17:00

Author in Attendance: 13:30–15:00

Chairperson: Alexander Lukeneder

- A69 EGU2011-7093
Bradley Samuels, Robert Beach, Sigfus Briedfjord, Basar Girit, Aleksey Lukyanov, Westley Rozen, and Adam Maloof
 The automation of serial grinding, imaging and digital reconstruction of features in samples with weak density contrasts.
- A70 EGU2011-1833
Susanne Mayrhofer and Alexander Lukeneder
 3D modelling in palaeontology - a case study on the Triassic ammonite *Orthocelites* (Carnian, Taurus, Turkey)
- A71 EGU2011-2394
Jeong-Gi Um, Hyeon Kyo Seo, and Young Hwan Noh
 A case study on the 3-D fracture network model of Devonian carbonate reef in Alberta, Canada
- A72 EGU2011-3420
Andrea Schober and Ulrike Exner
 3D structural modelling of an outcrop-scale fold train using photogrammetry and GPS mapping
- A73 EGU2011-7204
Juho Kupila and Jouni Pihlaja
 Geological 3D-models in urban infrastructure construction: studies in Levi ski resort, Finnish Lapland
- A74 EGU2011-5868
Clemens Porpaczy, Dana Homolova, and Kurt Decker
 A 3D basin model of the Budejovice Basin (southern Bohemia) with a special focus on the Hluboká-Fault Zone
- A75 EGU2011-12364
John-Are Hansen and Steffen G. Bergh
 Digital mapping and spatial analysis of planar geological features using ESRI ArcGIS 10
- A76 EGU2011-9204
Alodie Bubeck, Maxwell Wilkinson, Gerald P. Roberts, Kenneth J.W. McCaffrey, and Richard R. Jones
 The Tectono-geomorphic features of Apennine Fault Scarps Mapped Using Combined Ground Penetrating Radar and Terrestrial Laser Scanning
- A77 EGU2011-11056
Gerold Zeilinger, Andreas Bergner, Lutz Ehlert, Matthias Ohrnberger, and Manfred R. Strecker
 Geological 3D model visualization in Cave settings, challenges and limitations
- A78 EGU2011-12256
Richard Haslam, Stuart Clarke, Peter Styles, and Clive Auton
 Structural and stochastic modelling of possible contaminant pathways below nuclear installations

A79 EGU2011-12498

Radu Constantin Gogu, Dragos Gaitanaru, Zenaida Chitu, Angela Ionita, Marin Palcu, Violeta Velasco, Enric Vasquez-Sune, Loretta Batali, and Ioan Bica
Sedimentary Media Modelling Platform for Groundwater Management in Urban Areas

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

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

Room: 21

Chairperson: n.n.

10:30–10:45 EGU2011-633

Elina Kasvi, Hannu Hyypä, Anttoni Jaakkola, Joni Mäkinen, Juha Hyypä, and Petteri Alho
Estimating sediment features and hydraulic parameters on a sand bedded point bar using LiDAR height and intensity and high resolution UAV-based images

10:45–11:00 EGU2011-9479

Sarah Derouin and Lucille Piety
Seeing faults through the trees: A case study on using LiDAR in highly vegetated areas to determine fault activity and geomorphology

11:00–11:15 EGU2011-4647

Francesco Zucca, Fabio Remondino, Giorgio Agugiaro, Marco Franceschi, Davide Zizioli, and Christian Peloso
Mapping the vertical: Oblique LIDAR acquisition for mapping Dolomites cliff (NE Italy)

11:15–11:30 EGU2011-11858

Christoph Siart, Markus Forbriger, and Matthieu Ghilardi
Fusing surface and subsurface geodata: a case study on Cretan karst landforms

11:30–11:45 EGU2011-10198

Robert Barneveld
Measuring microtopography with Terrestrial Laser Scanning: Aspects of data quality

11:45–12:00 EGU2011-7933

Gottfried Mandlbauer, Johannes Otepka, Wilfried Karel, Markus Hollaus, Camillo Ressler, Alexander Haring, Christian Briesse, Gabor Molnar, and Bernhard Höfle
OPALS - a comprehensive laser scanning software for geomorphological analysis

LUNCH BREAK

Chairperson: n.n.

13:30–13:45 EGU2011-11459

Jean-Stephane Bailly and Carole Delenne
Riverbed image simulation for a better exploration of coarse-grained sediment sizing image analysis methods

13:45–14:00 EGU2011-3631

Thomas Dewez, Christian Mathon, Hiromi Kobayashi, Aude Nachbaur, Olivier Sedan, Frederic Berger, Emilie Nowak, and Emmanuel Des Garets
Real-size rockfall trajectory and derived mechanical quantities from close-range stereo video experiment in Tahiti, French Polynesia

14:00–14:15 EGU2011-1329

Dirk Rieke-Zapp
In situ measurement of bedrock erosion

14:15–14:30 EGU2011-4479

Rafael Caduff, Fritz Schlunegger, Andrew Kos, Charles Werner, and Andreas Wiesmann
Assessment of precise spatial and temporal slope deformation with the GAMMA Portable Radar Interferometer in the Illgraben debris flow catchment, Central Swiss Alps

14:30–14:45 EGU2011-5193

Chih-Ming Tseng, Ching Weei Lin, and Jin King Liu
Application of High-resolution LiDAR-derived DEM in Landslide Volume Estimation

14:45–15:00 EGU2011-4065

David Hodgetts
Quantitative geology from digital outcrop data for the characterisation of hydrocarbon reservoirs.

Chairperson: Paola Passalacqua

- 15:30–15:45 EGU2011-10133
Tim Le Bas, Aaron Micallef, and Philippe Blondel
 Use of texture analysis techniques for digital mapping of underwater environments: The case of a submerged karstic landscape offshore Malta.
- 15:45–16:00 EGU2011-5594
Paolo Tarolli and Paola Passalacqua
 The statistical signature of Earth-Surface Processes
- 16:00–16:15 EGU2011-2980
Giulia Sofia, Paolo Tarolli, Federico Cazorzi, and Giancarlo Dalla Fontana
 Channel network identification from high-resolution DTM: a statistical approach.
- 16:15–16:30 EGU2011-7484
John Hillier and Mike Smith
 Testing Quantification Methods with Synthetic Drumlins in a real DEM
- 16:30–16:45 EGU2011-2646
Florent Levasseur, Jean-Stéphane Bailly, Philippe Lagacherie, Colin François, and Rabotin Michaël
 Uncertainties of water flow-paths in digital cultivated landscape : consequences on overland flows and channel run-off
- 16:45–17:00 EGU2011-9831
Jungrock Kim, ShiYuan Lin, JeongWoo Hong, SangYoon Yun, Youghwi Kim, and HeaWoon Yun
 Very high resolution Martian topographic data processing and its application for virtual reality implementation

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

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

Hall A | Display Time 08:00–17:00

Author in Attendance: 08:30–10:00

Chairperson: n.n.

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