

EGU General Assembly 2011
Programme Group Programme
EG – Europe in Geosciences

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Monday, 04 April

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

Convener: Janusz Sledzinski | Co-Conveners: Jan Kostecky, 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 Droscek
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 Kostecký
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**, Jarosław Bosy, Bernard Kontny, Andrzej Krankowski, and Paweł 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 Tróćski, **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 Bakuć 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 Mikolaj 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 Pálinskás 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

G6.3/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 Havlicek
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 Nişu
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, Stefan Constantinescu, Gábor Timár, Ioan Stoian, and Vasile Craciunescu
The shaping of cadaster mapping in Romania

OS2.2/EG10 – Advances in understanding of the multi-disciplinary dynamics of the Southern European Seas (Mediterranean and Black Sea) (co-organized) – Orals

Convener: Nadia Pinardi | Co-Conveners: Samuel Somot, Emin Özsoy, Marilaure Gregoire

Room: 7

Chairperson: n.n.

- 13:30–13:45 EGU2011-6222
George Zodiatis, Dan Hayes, Isaac Gertman, Yianna Samuel-Rhoads, and Andreas Nicolaidis
 The mesoscale circulation in the Levantine Basin
- 13:45–14:00 EGU2011-2491
Karine Béranger, Cindy Lebeaupin Brossier, Marie-Noëlle Houssais, Philippe Drobinski, Michel Crépon, Jonathan Beuvier, Romain Bourdallé-Badie, Yann Drillet, Nicolas Ferry, and Florent Lyard
 Impact of the spatial distribution of the wind maximum on the deep convection in the Gulf of Lions and the Ligurian Sea (western Mediterranean)
- 14:00–14:15 EGU2011-9695
Nadia Pinardi, Mario Adani, Giovanni Coppini, Srdjan Dobricic, Claudia Fratianni, Vladislav Lyubartsev, Paolo Oddo, Marina Tonani, and Marco Zavatarelli
 The Mediterranean Sea large scale low frequency ocean variability from 1987 to 2007: a retrospective analysis
- 14:15–14:30 EGU2011-5018
Gianmaria Sannino, José-Carlos Sanchez-Garrido, Luca Liberti, and Lawrence Pratt
 The effects of nonhydrostaticity on the simulated exchange flow through the Strait of Gibraltar
- 14:30–14:45 EGU2011-11148
Eleonora Rinaldi, Bruno Buongiorno Nardelli, Gianluca Volpe, and Rosalia Santoleri
 Phytoplankton distribution and variability sources Sicily Channel (Mediterranean Sea) from remote sensing data
- 14:45–15:00 EGU2011-4662
Svetlana Pakhomova, Elena Vinogradova, Evgeny Yakushev, Andrey Zatsepin, Galina Shtereva, Valery Chasovnikov, and Oleg Podymov
 On the recent interannual changes of the Black Sea nutrient regime and oxic/anoxic boundary position
- Chairperson: Nadia Pinardi ; Emin Özsoy
- 15:30–15:45 EGU2011-7121
Patrick Lehodey, Inna Senina, and Philippe Gaspar
 Modeling Atlantic bluefin tuna spawning habitat and larvae dynamics in the Mediterranean Sea
- 15:45–16:00 EGU2011-7478
Emanuela Clementi, Marco Zavatarelli, and Paolo Oddo
 Simulating the interannual variability of the Adriatic Sea ecosystem
- 16:00–16:15 EGU2011-14182
 Emin Özsoy, **Ali Aydoğdu**, Adil Sözer, and Murat Gündüz
 Multi-year variations in the Northern Levantine Basin based on coupled hydrodynamic and ecosystem modeling
- 16:15–16:30 EGU2011-11844
 Arthur Capet, Alexander Barth, Jean Marie Beckers, Alberto V. Borges, Pascal Joassin, Filip Meysman, Karline Soetart, and **Marilaure Gregoire**
 Multidecadal evolution of Black Sea hydrodynamics and biogeochemistry
- 16:30–16:45 EGU2011-9254
Viktor Dorofeyev, Temel Oguz, and Gennady Korotaev
 Modelling of the Long-Term Evolution of the Black Sea Ecosystem
- 16:45–17:00 EGU2011-9475
 Suleyman Tugrul, **James W. Murray**, Gernot E. Friederich, and Ilkay Salihoglu
 Long-term changes in the chemical properties of the Black Sea

OS2.2/EG10 – Advances in understanding of the multi-disciplinary dynamics of the Southern European Seas (Mediterranean and Black Sea) (co-organized) – Posters

Convener: Nadia Pinardi | Co-Conveners: Samuel Somot, Emin Özsoy, Marilaure Gregoire

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Nadia Pinardi ; Marilaure Gregoire

- XY625 EGU2011-2165
Jonathan Beuvier, Cindy Lebeaupin-Brossier, Romain Bourdallé-Badie, Florence Sevault, Samuel Somot, Karine Béranger, Yann Drillet, Nicolas Ferry, and Florent Lyard
 Modelling the spreading of the Western Mediterranean Deep Water formed during winter 2004-2005 : role of deep eddies

- XY626 EGU2011-7115
Javier Soto-Navarro, Jose C. Sánchez-Garrido, Francisco Criado-Aldeanueva, Jesús García-Lafuente, Cristina Naranjo-Rosa, Antonio Sánchez-Román, Elisa Bruque, Concepción Calero, Javier Delgado, and Juan Miguel Vargas
 Diagnosing termohaline trends of the Atlantic Inflow by Argo data
- XY627 EGU2011-11472
Samuel Somot, Florence Sevault, Jonathan Beuvier, Marine Herrmann, Benoit Meyssignac, Roland Aznar, Gabriel Jordà, Simon Josey, and Michel Déqué
 Towards a realistic climate modelling of the Mediterranean Sea over the last 50 years: method and result overview
- XY628 EGU2011-11493
Yannis Cuyppers, Pascale Bouruet-Aubertot, Claudie Marec, and Jean Luc Fuda
 Turbulent mixing in anticyclonic eddies during the BOUM experiment (Mediterranean sea)
- XY629 EGU2011-9115
Alexandra Pavlidou and Harilaos Kontoyiannis
 Dissolved oxygen and nutrient dynamics in East Mediterranean Sea (Aegean, Ionian and Levantine Seas)
- XY630 EGU2011-9233
 Vasily Knysh, **Artem Miziouk**, Vladislav Moiseenko, Alexander Kubryakov, Natalia Inyushina, and Genndy Korotaev
 Variability of the Black Sea Dynamics During 1971-1993
- XY631 EGU2011-9339
Georgy Shapiro, Dmitry Aleynik, Andrei Zatsepin, Valentina Khan, Valery Prostakishin, Tatiana Akivis, Vladimir Belokopytov, Anton Sviridov, and Vladimir Piotukh
 Response of water temperature in the Black Sea to atmospheric forcing: the sensitivity study
- XY632 EGU2011-9423
 Akif Korkmaz, Heather Cannaby, Viktor Dorofeev, Alexander Kubryakov, **Baris Salihoglu**, and Temel Oguz
 Interannual variability in the water column structure of the Black Sea (1971 - 2001)
- XY633 EGU2011-10195
Marco Marcelli, Viviana Piermattei, Simone Bonamano, and Angelo Perilli
 Description of the primary production distribution in the Sardinian Sea (Western Mediterranean), between 2001 and 2004.
- XY634 EGU2011-11293
Manel Grifoll, Jordi Solé, and Manuel Espino
 A nested model for a water harbour circulation. The case of Barcelona (NW Mediterranean Sea)
- XY635 EGU2011-13185
 Bettina Fach, **Baris Salihoglu**, and Temel Oguz
 Modeling the influence of hydrodynamic processes on anchovy distribution and connectivity in the Black Sea
- XY636 EGU2011-13102
Marina Locritani, Gan Pietro Gasparini, Cosmo Carmisciano, Michela Castellano, and Paolo Povero
 The driving forces of the biotic processes along an offshore gradient in the Ligurian basin (Portofino Promontory) during 2008
- XY637 EGU2011-8125
gelsomina mattia, marcello vichi, byoung an, marco zavatarelli, and paolo oddo
 Variability of the Mediterranean Sea biogeochemistry in the contemporary climate
- XY638 EGU2011-2866
Ivica Vilibic and Hrvoje Mihanovic
 An application of Self-Organising Maps method in recent Adriatic environmental studies and its perspectives
- XY639 EGU2011-9580
 John Kirkpatrick, Clara Fuchsman, James T. Staley, Evgeniy Yakushev, and **James W. Murray**
 Anammox and Denitrification in the Black Sea

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

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

Tuesday, 05 April

EOS02/EG3 – Cultural and Political Impacts on Building Global Geoscience Human Capacity (co-organized) – Posters

Convener: Christopher Keane | Co-Conveners: Leila Gonzales, Sarah Gaines

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Christopher Keane

- XL1 EGU2011-1799
Leila Gonzales and Christopher Keane
A Global View of the Geoscience Profession: Updates from the IUGS Taskforce on the Global Geoscience Workforce
- XL2 EGU2011-2483
Wolfgang Eder and Eduardo de Mulder
The IYPE follow-on-initiative "Planet Earth Institute" (PEI)
- XL3 EGU2011-3381
Benjamin van Wyk de Vries and Jean-Luc Le Pennec
International Geological education and development: perspectives from the LMV/IRD outreach programmes
- XL4 EGU2011-10921
Meng Wang, Xuankui Hu, and Ziguao Hao
New Time for the Development of Young Generation in Geosciences from the view of Developing Country

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 Knöpfner, Michael Mayer, Frédéric Masson, Patrice Ulrich, and Bernhard Heck
The transnational geo-scientific initiative GURN (GNSS Upper Rhine Graben Network) - Recent results and future plans
- 11:45–12:00 EGU2011-7433
Søren B. Nielsen and the TOPOREAL Team
TOPOREAL: Topography of the North Atlantic realm

LUNCH BREAK

Chairperson: Sean Willett

- 13:30–13:45 EGU2011-7384
Zoltan Erdos, Ritske S. Huismans, and Peter van der Beek
Evaluating balanced section restoration with thermochronological data
- 13:45–14:00 EGU2011-5849
Charlotte Fillon, Luis Barbero, David Pedreira, Cecile Gautheron, and Peter van der Beek
Thermochronological evidence for significant Cenozoic exhumation in the Eastern Cantabrian Mountains

- 14:00–14:15 EGU2011-4063
Suzon Jammes and Ritske S. Huismans
 Influence of structural inheritance during inversion tectonics at lithospheric scale: the example of Pyrenean-Cantabrian mountain belt
- 14:15–14:30 EGU2011-2763
Javier Fernández-Lozano, Dimitrios Sokoutis, Ernst Willingshofer, Alfonso Muñoz-Martín, Gerardo De Vicente-Muñoz, and Sierd Cloetingh
 Integration of gravity and topography analyses in analogue modelling: understanding lateral strength variations in Iberia and their influence on intra-plate mountain building.
- 14:30–14:45 EGU2011-5928
Enric Suades Sala and Ana Crespo Blanc
 Onshore study of syn-orogenic olistostromic deposits in the Gibraltar Arc: a tool to reveal mountain front uplift
- 14:45–15:00 EGU2011-8617
Kurt Stüwe, Nicolas Legrain, Andreas Wölfler, Istvan Dunkl, and Todd Ehlers
 New U-He ages for the Eastern Alps
- Chairperson: Paola Campus
- 15:30–15:45 EGU2011-10128
Andreas Wölfler, Walter Kurz, Harald Fritz, and Kurt Stüwe
 Lateral Extrusion in the Eastern Alps: Time constraints and plate tectonic controls during Oligocene to Miocene times
- 15:45–16:00 EGU2011-12938
Michał Smigielski, Piotr Krzywiec, Katarzyna Pisaniec, Finlay Stuart, Cristina Persano, Hugh Sinclair, Nestor Oszczykko, 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 Sinischalchi, Joan Campanyà, Duygu Kiyan, Gerardo Romano, Mohamed Rouai and the TopoMed MT Team
 The TopoMed broad band magnetotelluric experiment: crustal images of the Atlas mountains of Morocco.
- XY736 EGU2011-4181
Benjamin Guillaume, Francesca Funiciello, Claudio Faccenna, and Carlo Doglioni
 Effects of background mantle flow on subduction dynamics: insights from laboratory models
- XY737 EGU2011-6456
Duygu Kiyan, Alan G. Jones, Javier Fullea, Colin Hogg, Juanjo Ledo, Agata Siniscalchi, Joan Campanyà, Gerardo Romano, Pierpaolo Moretti, Mohamed Rouai and the The TopoMed MT Team
 Lithospheric-scale geometry of the Atlas Mountains of Morocco revealed by magnetotelluric surveying
- XY738 EGU2011-4217
Maria Neves, Filipe Rosas, Pedro Terrinha, Luis Matias, Marylin Moulin, and Joaquim Luis
 Gravitational stresses and tectonic loading near shore: insights from the Gulf of Cadiz.
- XY739 EGU2011-7006
 Giorgi Khazaradze, **Eva Asensio**, Anna Echeverria and the Topo-Iberia GPS Team
 Crustal deformation studies in Iberia: Topo-Iberia CGPS network
- XY740 EGU2011-8420
Antonio 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, $4\text{He}/3\text{He}$ thermochronometry and numerical modelling, Western European Alps
- XY752 EGU2011-10101
Andreas Wölfler, Kurt Stüwe, Nicolas Legrain, and Harald Fritz
 Neogene denudation rates in the Eastern Alps as determined by low temperature thermochronology
- XY753 EGU2011-957
Csilla Karina Biró and Balázs Székely
 Historical river avulsion at the Danube Bend - insights from archive shallow boreholes and vertical geoelectric sounding data at Pilismarót
- XY754 EGU2011-12824
Gábor Kovács, Tamás Telbisz, and Balázs Székely
 Quaternary alterations of drainage network in the transition zone between the Alps and the Pannonian Basin
- XY755 EGU2011-13362
András Zámolyi, Martin Olsen, Balázs Székely, Gábor Timár, Gábor Varga and the Húge Hernád Research Team
 Tectonically influenced landscape evolution in the Hernád-valley region (NE Hungary)
- XY756 EGU2011-11246
Martin Schmeer, Michael Schmidt, Benoit Meyssignac, Wouter van der Wal, and Frank Flechtner
 Regional Gravity fields from GRACE observations
- XY757 EGU2011-4032
Damien Delvaux, Sierd Cloetingh, Fred Beekman, Dimitrios Sokoutis, Evgueni Burov, and Michael Kaban
 Basin evolution in a folding lithosphere. Examples from the Altay-Sayan and northern Tien Shan

Wednesday, 06 April

BG2.3/EG4 – The climate response of Mediterranean vegetation: lessons for a warming Europe? (co-organized) –

Orals

Convener: Kadmiel Maseyk | Co-Conveners: Juan Pedro Ferrio Diaz, Victor Resco

Room: 24

Chairperson: n.n.

08:30–09:00 EGU2011-12215

Walter C. Oechel, Hongyan Luo, Alessandra Rossi, Tom Bell, David Lipson, and John Kim
Response of the Mediterranean-type Ecosystems of California to Varying Levels of Atmospheric Carbon Dioxide and Varying Climate: Potential implications for Europe

09:00–09:15 EGU2011-1460

José A. Carreira, Roberto García-Ruiz, M^a Carmen Blanes, and Benjamín Viñegla
N saturation of temperate conifer forests in a warming Europe: lessons from temperate-like, relic fir forests currently under a Mediterranean-type climate

09:15–09:30 EGU2011-130

Tamir Klein, Dan Yakir, and Shabtai Cohen
Hydraulic adaptations underlying drought resistance of *Pinus halepensis*

09:30–09:45 EGU2011-827

Ana Were, Penélope Serrano Ortiz, Borja Ruiz-Reverter, Luis Villagarcía, Laura Morillas, Ana Rey, Russel L. Scott, Francisco Domingo, Albertus Johanssen Dolman, and Andrew Steven Kowalski
Seasonality of carbon and water exchange in mediterranean shrubland ecosystems

09:45–10:00 EGU2011-2059

Josep Barba, Jorge Curiel Yuste, Jordi Martínez-Vilalta, Rafael Poyatos, and Francisco Lloret
Spatial variability of soil respiration in an heterogeneous and ecotonal Mediterranean forest in NE Iberian Peninsula

BG2.3/EG4 – The climate response of Mediterranean vegetation: lessons for a warming Europe? (co-organized) –

Posters

Convener: Kadmiel Maseyk | Co-Conveners: Juan Pedro Ferrio Diaz, Victor Resco

Poster Area BG | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

BG16 EGU2011-4499

Matteo Zampieri and Piero Lionello
Effects of anthropic vegetation on European climate

BG17 EGU2011-6555

Rim Amri, Mehrez Zribi, Benoit Duchemin, Zohra Lili chabaane, and Claire Gruhier
Analysis of vegetation behaviour in a North Africa semi-arid region, using SPOT VEGETATION NDVI data

BG18 EGU2011-13149

Paolo De Angelis, Giovanbattista de Dato, Gabriele Guidolotti, and Dario Liberati
Impact of climate manipulation on a Mediterranean shrubland ecosystem

BG19 EGU2011-6597

Gabriele Guidolotti, Dario Liberati, Giovambattista de Dato, and Paolo De Angelis
Impact of climate manipulation on carbon fluxes of a Mediterranean shrubland in Sardinia

BG20 EGU2011-225

Markus O. Heidak, Ulrich A. Glasmacher, Heinfried Schöler, José M. Hernández-Moreno, Ramon Casillas Ruiz, Mario Trieflof, and Bernd Kober
Inorganic element cycles between volcanic rocks, soils and plants in the Laurel Forest (Tenerife, Canary Islands, Spain).

BG21 EGU2011-356

Mara Lucà, Juan Pedro Ferrio, Mónica Aguilera, and Jordi Voltas
Climatic sensitivity in co-occurring *Quercus* species: analysis of spatial and temporal gradients under Mediterranean conditions

BG22 EGU2011-6972

Giovanna Battipaglia, Veronica De Micco, Giovanna Aronne, and Paolo Cherubini
Hidden phenology in wood: growth dynamics in Mediterranean trees and shrubs in response to climate

BG23 EGU2011-1962

Juan Pedro Ferrio, Mónica Aguilera, Luis Serrano, Salvador Nogués, and Jordi Voltas
Seasonal dynamics of water use in two co-occurring Mediterranean oaks (*Quercus ilex* and *Quercus faginea*): an isotopic approach

- BG24 EGU2011-6572
Benjamin Viñegla, José Antonio Carreira, Juan Carlos Linares, and Jesús Julio Camarero
 Intrinsic water-use efficiency in conifer species in a global change scenario. Can the increasing atmospheric CO₂ prevent drought-induced trees' growth decline?
- BG25 EGU2011-2669
Cathy Kurz Besson, Raquel Lobo do Vale and the Portuguese MIND Team
 Cork oak physiological responses to precipitation changes: results of a 3-yr field experiment.
- BG26 EGU2011-897
Cristina Antunes, Pedro Pinho, Manuel Joao Pinto, Patricia Fernandes, Otilia Correia, and Cristina Máguas
 Responses of a phreatophyte species to climatic conditions and groundwater drawdown
- BG27 EGU2011-7929
Kadmiel Maseyk, Celine Lett, Markus Schmidt, Philippe Biron, Patricia Richard, Thierry Bariac, and Ulli Seibt
 Physiological and morphological controls on the impact of high evaporative demand across different plant types
- BG28 EGU2011-7289
Tijana Blanusa, Madalena Vaz Monteiro, Federica Fantozzi, and Ross Cameron
 Keeping their cool: the impact of plant species' differential regulation of leaf temperature under soil water deficits - potential to decrease air temperatures?
- BG29 EGU2011-884
Patrícia Fernandes, Otilia Correia, Cristina Antunes, Christiane Werner, and Cristina Máguas
 Invasiveness of the exotic *Acacia longifolia* along a climatic gradient in the Mediterranean region: reasons and facts

CL1.15/EG5 – Multi-proxy investigations of climates of the last millennium (co-organized) – Orals

Convener: Mary Gagen | Co-Conveners: Philip Jones, Neil J. Loader, Michael Mann, Danny McCarroll, Iain Robertson, Eduardo Zorita

Room: 16

Chairperson: Mary Gagen

- 08:30–08:45 EGU2011-1998
Etienne Boucher, Joel Guiot, Emmanuel Chapron, and Myriam Khodri
 A millennial multi-proxy reconstruction of summer PDSI for Southern South America
- 08:45–09:00 EGU2011-2637
Thomas Felis, Norel Rimbu, Martin Kölling, Gerrit Lohmann, Jürgen Pätzold, Henning Kuhnert, Atsushi Suzuki, Mihai Dima, and Hodaka Kawahata
 Subtropical coral records of Northern Hemisphere climate variability - evidence for abrupt surface ocean salinity changes during the last centuries
- 09:00–09:15 EGU2011-12601
Kerstin Treydte, Millennium partners, and Isonet partners
 Winter Arctic Oscillation signal in a European tree-ring $\delta^{18}O$ network
- 09:15–09:30 EGU2011-7213
Mathias Trachsel, Christian Kamenik, Martin Grosjean and the Millennium (Southern Sites) Team
 Multi-archive summer temperature reconstruction for the European Alps, AD 1053 - 1996
- 09:30–09:45 EGU2011-6682
Bo Christiansen and Fredrik Charpentier Ljungqvist
 Reconstruction of the extra-tropical NH mean temperature over the last millennium with a method that preserves low-frequency variability
- 09:45–10:00 EGU2011-8738
Robert F. Spielhagen, Kirstin Werner, Steffen Aagaard-Sørensen, Katarzyna Zamelczyk, Evguenia Kandiano, Gereon Budeus, Katrine Husum, Thomas M. Marchitto, and Morten Hald
 Oceanic heat advection to the Arctic in the last Millennium

COFFEE BREAK

Chairperson: Eduardo Zorita

- 10:30–10:45 EGU2011-1897
Hugues Goosse, Elisabeth Crespin, Svetlana Dubinkina, Marie-France Loutre, Michael E. Mann, Hans Renssen, Yoann Sallaz-Damaz, and Drew Shindell
 The Medieval Climate Anomaly: mechanisms beyond a direct radiative forcing

- 10:45–11:00 EGU2011-3766
Hugo Beltrami, Jason Smerdon, Gurpreet Matharoo, and Nick Nickerson
 Quantifying the effects of the maximum borehole depth on ground surface temperature histories inferred from borehole temperature profiles
- 11:00–11:15 EGU2011-6402
 Jonas Bhend and **Stefan Bronnimann**
 Global Climate Reconstructions of the Past 400 years Using Ensemble Kalman Filtering
- 11:15–11:30 EGU2011-6975
Alistair Hind, Anders Moberg, Rolf Sundberg, Hiro Yamazaki, Dan Rowlands, Myles Allen, and Danny McCarroll
 Developing model-data comparison methods for the Millennium Project
- 11:30–11:45 EGU2011-8089
Jason Smerdon, Alexey Kaplan, Eduardo Zorita, Michael Evans, and J. Fidel Gonzalez-Rouco
 Testing the spatial performance of four late-Holocene climate field reconstruction methods using pseudoproxy experiments
- 11:45–12:00 EGU2011-11601
Martin Juckes
 Spread versus uncertainty: untangling climate reconstructions

CL1.15/EG5 – Multi-proxy investigations of climates of the last millennium (co-organized) – Posters

Convener: Mary Gagen | Co-Conveners: Philip Jones, Neil J. Loader, Michael Mann, Danny McCarroll, Iain Robertson, Eduardo Zorita

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Iain Robertson, Phil Jones and Mary Gagen

- XL17 EGU2011-1048
Heidi Kjennbakken, Hafliði Hafliðason, Hans Petter Sejrup, and Scott J. Lehman
 Sub-decadal Norwegian Coastal Current variability expressed in XRF Ca/Fe content in the SE Norwegian Sea
- XL18 EGU2011-1107
Stefan Winkler
 Late Holocene glacier chronology of the Southern Alps/New Zealand - a methodological challenge?!
- XL19 EGU2011-1241
Manfred Mudelsee
 A proxy record of winter temperatures since 1836 from ice freeze-up/breakup in lake Näsijärvi, Finland
- XL20 EGU2011-1354
Fernando S. Rodrigo
 Early meteorological data in southern Spain, 1790-1830
- XL21 EGU2011-1896
Hugues Goosse, Joel Guiot, Michael E. Mann, Svetlana Dubinkina, and Yoann Sallaz-Damaz
 The medieval climate anomaly in Europe: comparison of the summer and annual mean signals in two reconstructions and in simulations with data assimilation
- XL22 EGU2011-1951
Wenmin Man, Tianjun Zhou, and Jie Zhang
 Surface Air Temperature Changes during the Last Millennium Simulated by a Climate System Model
- XL23 EGU2011-2931
Nathalie Fagel, Meriem El Ouahabi, Gilles Lepoint, Sebastien Bertrand, Sabine Schmidt, Denisse Alvarez, Alberto Araneda, Fernando Torrejon, and Roberto Urrutia
 The last millenium sedimentary record in Chilean Patagonian lakes
- XL24 EGU2011-3021
Dan Zhang, Richard Blender, and Klaus Fraedrich
 Volcanic and ENSO effects on the climate in China in simulations and reconstructions
- XL25 EGU2011-3758
 Gurpreet Matharoo, **Hugo Beltrami**, and Jason Smerdon
 Ground surface temperature history uncertainties from the determination of the quasi steady state in borehole climatology
- XL26 EGU2011-3837
Rosanne D'Arrigo, Richard Seager, Jason Smerdon, Allegra LeGrande, and Edward Cook
 The Anomalous Winter of 1783-4: Was the Laki eruption really to blame?
- XL27 EGU2011-4508
Volker Rath and J. Fidel Gonzalez Rouco
 Correcting Borehole Temperature Profiles for the Effects of Postglacial Warming: Field Studies in North America and Eurasia

- XL28 EGU2011-5094
Juan Carlos Herguera and Daniela Rabiela
Seasonality and ENSO in high resolution cores in the NE Pacific
- XL29 EGU2011-5140
Eduardo Zorita and Sebastian Wagner
Transient climate simulations of the Mid-Holocene to present: temperature trends and meridional moisture transport
- XL30 EGU2011-5488
Bård Støve, Fredrik Charpentier Ljungqvist, and **Peter Thejll**
Climate reconstruction fundamentals: Testing proxies for linearity.
- XL31 EGU2011-5613
Kateřina Chromá, Rudolf Brázdil, Hubert Valášek, and Lukáš Dolák
Hydrometeorological extremes around the River Morava in the 18th-19th centuries derived from documentary sources of economic character
- XL32 EGU2011-7269
Zoltán Kern, Mónika Patkó, László Magyar, József Fekete, Sándor Kele, Zoltán Pályi, and Miklós Kázmér
Multiple tree-ring proxies (earlywood width, latewood width and $\delta^{13}C$) from a secular pendunculate oak (*Quercus robur* L.) stand, Nyírség, NE Hungary
- XL33 EGU2011-8294
Juan José Gomez-Navarro, Juan Pedro Montáñez, Sonia Jerez-Rodríguez, Pedro Jiménez-Guerrero, Raquel Lorente-Plazas, J. Fidel González-Rouco, Eduardo Zorita, and Juan Andrés García-Valero
Assessing the role of internal variability in Regional Climate Paleosimulations
- XL34 EGU2011-8437
Thomas Opel, Diedrich Fritzsche, and Hanno Meyer
Eurasian Arctic climate over the past millennium as recorded in the Akademii Nauk ice core (Severnaya Zemlya)
- XL35 EGU2011-8560
Louise Sime, Nicola Lang, Elizabeth Thomas, Ailsa Benton, Nerilie Abram, and Rob Mulvaney
A New Method for Testing Depth-Age Models and the Impact of Sampling Strategies
- XL36 EGU2011-8751
Bill Buhay
Recent Climate Change in the Red River Basin, Manitoba, Canada
- XL37 EGU2011-8925
Maria del Carmen Alvarez-Castro, David Gallego, Pedro Ribera, Cristina Peña-Ortiz, and Paulina Ordoñez
A New Historical Meteorological Database Over the Mediterranean Sea.
- XL38 EGU2011-9868
Polona Hafner, Iain Robertson, Danny McCarroll, Neil J. Loader, Mary Gagen, Roderick J. Bale, Högne Jungner, Eloni Sonninen, Emmi Hiltavuori, and Tom Levani?
Climate signal in $\delta^{18}O$, δ^2H , $\delta^{13}C$ and tree-ring widths of *Larix decidua* growing at SE European Alps (Slovenia)
- XL39 EGU2011-9883
Dmitry Divine, Elisabeth Isaksson, Tonu Martma, Vejio Pohjola, Harro A. J. Meijer, Roderik S.W. van de Wal, John Moore, and Fred Godtliebsen
Updated chronology of the Lomonosovfonna ice core, Svalbard: implications for paleotemperature reconstruction
- XL40 EGU2011-9932
Roel Brien, Gerd Helle, Thijs Pons, and Emmanuel Gloor
Are oxygen isotopes in Amazon tree rings a good proxy for Amazon rainfall?
- XL41 EGU2011-10419
Laura Fernández-Donado, Fidel González-Rouco and the Millennium Multimodel Comparison Team
Last millennium climate simulations and reconstructions. A state-of-the-art comparison.
- XL42 EGU2011-10963
Anne-Sophie Fanget and the RHOSOS Group Team
Historical shifts of the Rhone River and catastrophic flood events revealed by multi-proxy analysis of the Rhone prodeltaic sediments (Gulf of Lions, NW Mediterranean)
- XL43 EGU2011-10965
Frederik Schenk and Eduardo Zorita
Reconstructing storminess and storm surge conditions for Northern Europe since 1850 using the Analog method as nonlinear statistical upscaling tool
- XL44 EGU2011-11405
Sebastien Joannin, Boris Vannière, Didier Galop, Michel Magny, Adrian Gilli, Emmanuel Chapron, Stefanie Wirth, Flavio Anselmetti, and Marc Desmet
Holocene vegetation response to human and climate impacts in the Central Mediterranean at Lake Ledro (Southern Alps, Italy)

- XL45 EGU2011-12534
Hans Linderholm, Tinghai Ou, Jee-Hoon Jeong, Chris Folland, and Yu Liu
 An assessment of the stability of the teleconnection between the summer North Atlantic Oscillation and climate in East Asia during the last millennium
- XL46 EGU2011-12569
Y. Hiro Yamazaki, Alistair Hind, Anders Moberg, Kuniko Yamazaki, Tolu Aina, Milo Thurstun, Nicolas Bellouin, Peter Hanappe, Myles Allen, and Danny McCarroll
 Can we constrain future climate predictions with European paleoclimate data of the last millennium?
- XL47 EGU2011-12857
Ingo Heinrich, Ramzi Touchan, and Gerd Helle
 Long-term climate and streamflow variations in Turkey derived from stable isotopes of *Juniperus excelsa*
- XL48 EGU2011-14103
Mary Gagen, Danny McCarroll, Eduardo Zorita, Giles Young, Risto Jalkanen, Neil Loader, Iain Robertson, Hakan Grudd, and Andreas Kirchhefer
 Millennial length summer sunshine reconstructions from stable carbon isotope ratios in tree rings from across Fennoscandia.
- XL49 EGU2011-2861
James Annan and Julia Hargreaves
 Millennial climate reconstructions through data assimilation: what can the proxies tell us about past climates?

OS3.4/EG9 – Deep Sea Frontier - A European Challenge (co-organized) – Orals

Convener: Achim Kopf | Co-Conveners: Timothy Ferdelman, Heiko Pälike, Catherine Mevel, Antje Boetius

Room: 7

Chairperson: Achim Kopf, Antje Boetius

- 15:30–15:45 EGU2011-9065
Achim Kopf and the DS3F Steering Committee Team
 The Deep-Sea and Sub-Seafloor Frontier initiative - a key to link EC research and international scientific ocean drilling
- 15:45–16:00 EGU2011-4820
Timothy Ferdelman and Judith McKenzie
 The Deep Sea and Sub-seafloor Frontier: Past, present and future links in sedimentary seafloor and sub-seafloor ecosystems
- 16:00–16:15 EGU2011-12642
Antje Boetius, Frank Wenzhöfer, Alban Ramette, Felix Janssen, Dirk de Beer, Thomas Soltwedel, Michael Klages, Christoph Waldmann, and Olaf Pfannkuche
 Observing deep-sea ecosystem shifts related to global change and human impact
- 16:15–16:30 EGU2011-3850
Jurgen Mienert, Stefan Bünz, Haflidi Haflidason, and Shyam Chand
 Scientific Ocean Drilling in Norwegian-Arctic Continental Margins To Determine Gas Hydrate Energy and Active Methane Venting
- 16:30–16:45 EGU2011-3213
R John Parkes and the R John Parkes Team
 Prokaryotes Stimulate Mineral-H₂ Formation for the Deep-Biosphere and Subsequent Thermogenic Activity.
- 16:45–17:00 EGU2011-7150
Catherine Mevel and Maria Ask
 Improving technologies for sub seafloor sampling and instrumentation

Thursday, 07 April

EG1 – Today and Tomorrow: Regional Environmental Perspectives and Futures – Orals

Convener: Patricia Anne Xavier | Co-Conveners: Min Hu, Soon-Thiam Khu, Antonio Marcomini, Zoya Damianova

Room: D

Chairperson: Professor Soon-Thiam Khu

- 15:30–15:45 EGU2011-6622
Antonio Marcomini, Andrea Critto, and Elisa Giubilato
 Present and future for the European Union and Russia co-operation in the field of the Environment: the E-URAL project
- 15:45–16:00 EGU2011-4080
Michaela Bray, Dawei Han, Soon-Thiam Khu, Patricia Xavier, and Yun Zhou
 Climate Change Research and Policy in the EU
- 16:00–16:15 EGU2011-4385
Wei Meng and Juntao Fan
 Development of Environmental Policy in China
- 16:15–16:30 EGU2011-4476
Xin Lin, Guo Li, Monika Bertzky, Valeria Kapos, Xiaopu Wu, Junsheng Li, and Barney Dickson
 Carbon, biodiversity, and ecosystem services: exploring co-benefits in Jiangxi Province, China
- 16:30–16:45 EGU2011-13874
Evgeny Gordov
 Siberia Integrated Regional Study: from climate change study to adaptation/mitigation strategy
- 16:45–17:00 EGU2011-13879
Patricia Xavier and Soon-Thiam Khu
 The evolution of water environment management and research in Europe

EG1 – Today and Tomorrow: Regional Environmental Perspectives and Futures – Posters

Convener: Patricia Anne Xavier | Co-Conveners: Min Hu, Soon-Thiam Khu, Antonio Marcomini, Zoya Damianova

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Professor Antonio Marcomini

- A1 EGU2011-818
Mari Tuusjärvi
 Characteristics of the current boom in metals mining in Finland
- A2 EGU2011-2804
Zhi-Guang Niu, Ying Zhang, and Hui Wang
 Study on the criteria for excellent researchers in environment area of China
- A3 EGU2011-4407
Yun Zhou, Beidou Xi, and Jing Su
 Water Pollution Control and Treatment in China
- A4 EGU2011-5555
Christine Schleupner, Kerstin Jantke, and Uwe A. Schneider
 Defining areas of regional wetland conservation concern in Europe under environmental and policy change scenarios
- A5 EGU2011-7381
Marian Pavelka and the Institute of Systems Biology and Ecology Team
 CzechGlobe - Center for Global Climate Change Impacts Studies
- A6 EGU2011-8162
 Valeria Hernandez, **Florencia Fossa Riglos**, Eugenia Muzi, and Laura Rey
 Cooperation strategies and research methodologies in a regional climate change impacts study on La Plata Basin (LPB) in South America
- A7 EGU2011-14194
Soon-Thiam Khu
 Water and Energy: Research in Europe and China

NH9.1/EG8 – Public policy and commercial applications of natural catastrophe risk assessment (co-organized) –

Orals

Conveners: Rashmin Gunasekera, Matthew Foote | Co-Conveners: Marc Wüest, Robert Muir-Wood, Bruce D. Malamud

Room: 1

Chairperson: n.n.

- 08:30–08:45 EGU2011-12404
Nicholas Watkins, Sam Rosenberg, Sandra Chapman, Mark Naylor, and Mervyn Freeman
 When black swans come in bunches: modelling the impact of temporal correlations on the return periods of heavy tailed risk
- 08:45–09:00 EGU2011-6411
Alice Modica, Peter J. Stafford, and Helen Crowley
 Vector-Valued Seismic Demand Analysis within Earthquake Risk Assessment
- 09:00–09:15 EGU2011-12128
Milan Simic and John E. Alarcon
 Assessment of Earthquake Loss Distribution Between Public and Private Risk Takers
- 09:15–09:30 EGU2011-6636
Stuart Lane and Matthew Foote
 Geographically-explicit flood risk assessment (aka Flood Maps): the basis of rational policy response?
- 09:30–09:45 EGU2011-8302
Marc Choffet, Michel Jaboyedoff, Olivier Lateltin, Eric Leroi, and Markus Imhof
 Valuation of natural hazard insurance data for a quantified vulnerability assessment. Case studies for flood and hail using insurance data of Swiss public insurance.
- 09:45–10:00 EGU2011-13713
Ulrich Schwarz
 Floodplain restoration potential and flood mitigation along the Danube

COFFEE BREAK

Chairperson: n.n.

- 10:30–10:45 EGU2011-13768
Renato Vitolo, David Stephenson, Jane Strachan, Pier Luigi Vidale, Gero Michel, and Ian Cook
 Global patterns of tropical cyclones clustering
- 10:45–11:00 EGU2011-11061
Mari Jones, Hayley Fowler, Christopher Kilsby, Renato Vitolo, David Stephenson, Ian Cook, and Gero Michel
 UK Rainfall extremes: trends, non-stationarity, and clustering
- 11:00–11:15 EGU2011-12537
Kirsten Mitchell-Wallace, Markus Gut, Henry Bovy, and Ronny Abplanalp
 Modelling Severe Convective Storm in the US
- 11:15–11:30 EGU2011-9520
Jonathan Meagher and Christine Ziehmman
 A new landscape of storm surge risk for the United States
- 11:30–11:45 EGU2011-8981
Christine Ziehmman, Jonathan Meagher, and Shree Khare
 The relative roles of wind, storm surge and inland flooding causing damage from Japan Typhoon
- 11:45–12:00 EGU2011-5491
Angelika Werner and Neil J. Holbrook
 A spatial seasonal forecast model of tropical cyclone risk for the Australian region

NH9.1/EG8 – Public policy and commercial applications of natural catastrophe risk assessment (co-organized) – Posters

Conveners: Rashmin Gunasekera, Matthew Foote | Co-Conveners: Marc Wüest, Robert Muir-Wood, Bruce D. Malamud

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY527 EGU2011-3371
Katherine Royse, John Rees, Susanne Sargeant, Chris Franklin, and Lynne Porter
 Predicting Uncertainty and Risk in the Natural Sciences: Bridging the gap between academics and industry
- XY528 EGU2011-13914
Christine Dietrich
 Structuring of Insurance-Linked Securities (ILS) and its Application in Natural Catastrophe Risk Assessment
- XY529 EGU2011-11685
Rashmin Gunasekera, Suranga Kahandawa, Srimal Samansiri, Chaminda Weerasinghe, Ramitha Wijethunge, and Ananda Mallawatantri
 Framework for a Methodology to Integrate Vulnerability to Develop Flood Risk Profiles for Ayagama and Elapatha, Sri Lanka.

- XY530 EGU2011-11832
Keiko Saito, Robin Spence, Rashmin Gunasekera, and Matthew Foote
 Supervised and unsupervised characterisation of urban exposure data using remotely sensed images for catastrophe loss modelling
- XY531 EGU2011-7643
Marie-Kristina Thomson and Barbara Page
 Insured exposure development for estimating the financial consequences of windstorm risk in Europe
- XY532 EGU2011-13922
 Jürgen Gaiser-Porter, **Ian Scott**, Hélène Galy, Renato Vitolo, Jane Strachan, Pier Luigi Vidale, and David Stephenson
 Sensitivity analysis using simple visualizations of the ACE index, to improve understanding of the driving parameters of tropical cyclone impact models
- XY533 EGU2011-9140
Aidan Slingsby, Jane Strachan, Pier-Luigi Vidale, Jason Dykes, and Jo Wood
 Browsing large natural hazard event sets
- XY534 EGU2011-13008
Nicolas Merlet, Kevin Larnier, Sylvia Becerra, Anne Peltier, and Denis Dartus
 Real-time 3D visualization of flood modelling for improving risk perception in medium hazard level areas
- XY535 EGU2011-12370
Justin Butler, Juan England, and Emma Roberts
 Insurance-focussed prototype models for analysing and visualising flood risk in Latin American megacities
- XY536 EGU2011-13739
Christopher Sampson, Paul Bates, Alastair Duncan, and Timothy Fewtrell
 Merging airborne and terrestrial LiDAR data to determine geometric controls on flood propagation in urban areas
- XY537 EGU2011-10293
Clemens Pfurtscheller, Michael Vetter, Christine Gschöpf, Jose Luis Salinas, and Andrea Fischer
 Assessing the indirect economic effects for entrepreneurial flood risk management based on extreme precipitation scenarios and LiDAR-data
- XY538 EGU2011-8854
Linda Speight, Jim Hall, Chris Kilsby, and Paul Kershaw
 Understanding spatial and temporal dependencies in flood risk exposure in the UK
- XY539 EGU2011-2111
Jillian Eldridge and Diane Horn
 Planning policy and flood risk, a sustainable insurance future in the Thames Gateway?
- XY540 EGU2011-9318
Nilgün Okay
 Coastal Geo-Hazards around the Mediterranean Sea and Risk Reduction
- XY541 EGU2011-1965
Gabriele Villarini, James Smith, and Mary Lynn Baack
 Towards the Development of a US Flood Model
- XY542 EGU2011-8361
Gabriele Villarini, Francesco Serinaldi, and James Smith
 Development of a Pan-European Seasonal Forecasting System for Hydrometeorological Variables: Rainfall Forecast for Ukraine, Moldova and Romania
- XY543 EGU2011-13019
Jessica Turner, Katie Coughlin, and Enrica Bellone
 Regional increases in landfall frequency and intensity of Atlantic hurricanes in a stochastic model forecast
- XY544 EGU2011-11194
Raymond Richardson, David Bachiochi, George Rowe, Robert Kilcup, Michael Dickinson, Nihat Cubukcu, Brian Mackey, and David Hamilton
 Using the ECMWF 15-day Ensemble Prediction System to Forecast Property Loss for European Windstorm Events
- XY545 EGU2011-5982
Michael Kunz, Marc Puskeiler, and Susanna Mohr
 Assessment of the hail hazard from a combination of radar and insurance data
- XY546 EGU2011-3326
Pierrick Nicolet, Marc Choffet, and Michel Jaboyedoff
 Landslides distribution during intense climatic events, the case of August 2005 in Switzerland
- XY547 EGU2011-4909
James Daniell
 The Worldwide CATDAT Damaging Earthquakes and Damaging Volcanoes Databases: Socio-economic trends, values and analysis including 2010.

- XY548 EGU2011-4923
James Daniell, Friedemann Wenzel, and Bijan Khazai
 The Economics of Earthquakes since 1900: The Hybrid Natural Disaster Economic Index, Historical Loss Conversion, Future Impacts and Insurance Takeout.
- XY549 EGU2011-12100
John E. Alarcon and Milan Simic
 Near real-time loss assessment from natural disasters

OS3.4/EG9 – Deep Sea Frontier - A European Challenge (co-organized) – Posters

Convener: Achim Kopf | Co-Conveners: Timothy Ferdelman, Heiko Pälike, Catherine Mevel, Antje Boetius

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 10:30–12:00

Chairperson: Timothy Ferdelman, Catherine Mevel

- XY601 EGU2011-2368
Beth Orcutt, Laura Lapham, and Peter Girguis
 Introducing MIMOSA - A Microbial Methane Observatory for Seafloor Analysis
- XY602 EGU2011-8714
Hans Roy, Jens Kallmeyer, Rishi R Adhikari, Britta Gribsholt, Bo B Jørgensen, and Steven D'Hondt
 Aerobic microbial respiration in ancient oxic sediments below the Subtropical Gyres
- XY603 EGU2011-5092
Timothy Ferdelman, Wiebke Ziebis, and James McManus
 North Pond: A model for the biogeochemical development of an open ocean sub-seafloor sedimentary ecosystem?
- XY604 EGU2011-3558
Alan Jamieson and Imants Priede
 Biological investigation and exploration of the hadal zone (6000 - 11,000 m)
- XY605 EGU2011-5099
Bo Barker Jørgensen and R. John Parkes
 The deep biosphere - a European challenge
- XY606 EGU2011-7500
Nils Risgaard-Petersen, Laura M Wehrmann, Heather N Schrum, Emily A Walsh, Youngsook Huh, Minoru Ikehara, Timothy G Ferdelman, and Steven D'Hondt
 Organic matter mineralization in the deep subseafloor sediment of the northeastern Bering Sea Slope (IODP Exp. 323)
- XY607 EGU2011-9158
Anthony Grehan
 CoralFISH: Ecosystem based management of corals, fish and fisheries in the deep waters of Europe and beyond
- XY608 EGU2011-11086
Heiko Pälike and Work Package 6 of the Deep-sea Frontiers Working Team
 Deep-Sea and Sub-Seafloor Frontiers: WP6 report for Climate Change and Response of Deep-Sea Biota
- XY609 EGU2011-8227
Miquel Canals and Vasilis Likousis
 The Deep Sea & Sub-Seafloor Frontier: Sediment Dynamics and Geohazards
- XY610 EGU2011-6746
Xavier Tubau, Galderic Lastras, Miquel Canals, Oriol Veres, David Amblas, Xavier Rayo, Aaron Micallef, and Hermesione Shipboard Party
 Geomorphology of the Foix submarine canyon system, NW Mediterranean Sea
- XY611 EGU2011-12146
Oriol Veres, Galderic Lastras, Miquel Canals, Sara Lafuerza, Ben De Mol, David Amblas, Ruth Durán, Sergio Costa, Aaron Micallef, Christian Berndt and the HERMESIONE Shipboard Team
 Relief forming processes in the Eivissa channel, Western Mediterranean
- XY612 EGU2011-4965
Aaron Micallef, Douglas G. Masson, Christian Berndt, and Dorrik A.V. Stow
 Failure processes in submarine landslides: A geomorphometric approach.
- XY613 EGU2011-9104
Achim Kopf and the IODP 748-full2 proponents Team
 Drilling and monitoring of natural and man-made landslide trigger mechanisms at the Ligurian slope (Mediterranean Sea): the tsunamigenic 1979 Nice Airport landslide, southern France
- XY614 EGU2011-10204
 Bernard Avril, Roberto Azzolini, Paola Campus, **Paul Egerton**, Niall McDonough, and Bonnie Wolff-Boenisch
 Towards a European, Multidisciplinary Research Strategy in Polar, Deep-Sea, Environmental sciences

- XY615 EGU2011-10480
Angelo De Santis, Phil Weaver, and DS3F Work Package 8 Working Group
Deep sea frontier infrastructure and synergy in Europe
- XY616 EGU2011-3204
Cemil Gürbüz, Dogan Kalafat, Mehmet Y?lmazer, Süleyman Tunç, and Sezim Güvercin
Marmara Sea Bottom Observatory (MSBO) Project and Preliminary Results From First Observations
- XY617 EGU2011-10622
Sarah Davies, Mike Lovell, Peter Fitch, Jenny Inwood, and Joanne Tudge
Optimising subsurface characterisation from core and logs: applications for the deep-sea frontier
- XY618 EGU2011-9076
Achim Kopf and Pierre Henry
Real-Time Amphibic Montoring and Borehole Observatories (RAMBO)

Friday, 08 April

EG2/CR1.70 – Future Perspectives for European Polar Research (co-organized) – Posters

Convener: Lester Lembke-Jene | Co-Conveners: Wolff-Boenisch Bonnie, Roberto Azzolini

Hall A | Display Time 08:00–17:00

Author in Attendance: 15:30–17:00

Chairperson: Bonnie Wolff-Boenisch, Lester Lembke-Jene

- A1 EGU2011-4204
Wolf-Christian Dullo, Boris Baranov, and Christel van den Bogaard
 KALMAR: "Kurile-Kamchatka and Aleutian Marginal Sea-Island Arc Systems: Geodynamic and Climate Interaction in Space and Time" an Integrated Polar Science Approach between Russia and Germany
- A2 EGU2011-4235
 Carolyn Wegner, Alexandre Forest, **Matthias Forwick**, Karen Frey, Jeremy T. Mathis, Christine Michel, Anna Nikolopoulos, Matt O'Regan, and Marit Reigstad
 The Arctic in Rapid Transition (ART) Initiative: Integrating priorities for Arctic Marine Science over the next decade
- A3 EGU2011-6247
Veronica Willmott Puig, Lester Lembke-Jene, Roberto Azzolini, Bonnie Wolff-Boenisch, Nicole Biebow, and Jörn Thiede
 Towards a 15+ years Multidisciplinary Polar Research Strategy: the ERICON - Aurora Borealis Science Plan
- A4 EGU2011-10552
Annett Bartsch and the ESA DUE Permafrost Team
 Implementation of a satellite data based information system for permafrost monitoring - The ESA DUE Permafrost Project
- A5 EGU2011-11312
Ingo Sasgen, Gerald Jurasinski, Jan Cermak, Annette Hey, Klaus-Holger Knorr, Phillip Kegler, Sonja Phillip, Jens Hartmann, Andres Rüggeberg, and Birte Nienaber (geb. Sprenger)
 The German Young Geoscientists Group - promoting exchange and information among the next generation of geoscientists
- A6 EGU2011-11334
Sepp Kipfstuhl
 Need for an European ice core storage and processing facility

