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 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
Vladimir Schenk, Richard Pichi, 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 Kostelecky, 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 Kostelecky, Tomasz Olszak

**Halls X/Y | Display Time 08:00–19:30**
Author in Attendance: 17:30–19:00
Chairperson: V. Pálinkás, M. Wozniak

**XY217**
EGU2011-1900
Andrzej Araszkiewicz, Janusz Bogusz, Mariusz Figurski, and Karolina Szafarnek
Centre of Applied Geomatics: scientific activities in the frame of EUREF Permanent Network

**XY218**
EGU2011-1903
Mariusz Figurski, Janusz Bogusz, Jaroslav Bosy, Bernard Kontny, Andrzej Krankowski, and Paweł Wiełgosz
“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 Sułkowski, Adam Grzybowski, and Paweł Zadruga
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
Raffaele 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 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 Pálnkás and Jakub Kostelecký
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, Keti Lelo, and Gábor Timár
Estimation of abridging Molodensky parameters to transform from old Italian reference systems to modern ones

XY250 EGU2011-10638
Vasile Cr?ciunescu and Constantin Nî?u
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 Cr?ciunescu
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 Bourdalé-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 Chasovnokov, and Oleg Podyomov
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 larval 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 Aydo?du, 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 Bourdalé-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
Diagnosing thermohaline trends of the Atlantic Inflow by Argo data

XY627  EGU2011-11472
Samuel Somot, Florence Sevault, Jonathan Beuvier, Marine Herrmann, Benoit Meyssignac, Roland Aznar, Gabriel Jordá, 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 Cuypers, 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 Aleykin, 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 Kubriyakov, 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, Gian 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 Vilbic 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 Yakuhev, 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/T51.6 – 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 Vogfjörd, Einar Kjartansson, Ragnar Sigbjörnsson, Simon 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  EGU2011-11018  
Marcello Martini, Sergio Gurrieri, and Domenico Patané  
Volcano Monitoring of the Italian active Volcanoes

XY653  EGU2011-10966  
Filippos Vallianatos and the GSlab Team  

XY654  EGU2011-10786  
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

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

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

**Chairperson:** Sean Willett

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<th>13:30–13:45</th>
<th>EGU2011-7384</th>
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<tr>
<td></td>
<td>Zoltan Erdos, Ritske S. Huismans, and Peter van der Beek</td>
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<td>Evaluating balanced section restoration with thermochronological data</td>
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<th>13:45–14:00</th>
<th>EGU2011-5849</th>
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<tr>
<td></td>
<td>Charlotte Fillon, Luis Barbero, David Pedreira, Cecile Gautheron, and Peter van der Beek</td>
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<td>Thermochronological evidence for significant Cenozoic exhumation in the Eastern Cantabrian Mountains</td>
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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 Wöfler, Istvan Dunkl, and Todd Ehlers  
New U-He ages for the Eastern Alps

15:00–15:15  EGU2011-10128  
Andreas Wöfler, Walter Kurz, Harald Fritz, and Kurt Stüwe  
Lateral Extrusion in the Eastern Alps: Time constraints and plate tectonic controls during Oligocene to Miocene times

15:15–15:30  EGU2011-12938  
Michal Smigieliski, Piotr Krzywiec, Katarzyna Pisaniec, Finlay Stuart, Cristina Persano, Hugh Sinclair, Nestor Oszczypko, and Katarzyna Sobien  
Inversion of the Central Carpathian Basin constrained using low temperature thermochronology and its implications for Carpathian orogenesis.

15:30–15:45  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

15:45–16:00  EGU2011-11100  
David Fernández-Blanco and Giovanni Bertotti  
Neogene vertical movements in the Mut-Ermenek Basin, south Turkey: New insights from structural studies

16:00–16:15  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

16:15–16:30  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)


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 Wawerziniek, Corinna Roy, and Joachim Ritter  
Telesismic 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
EGU General Assembly 2011

**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 Kiyani, Gerardo Romano, Mohamed Rouai and the TopoMed MT Team  

**XY736**  
**EGU2011-4181**  
**Benjamin Guillaume**, Francesca Funiciello, Claudio Faccenna, and Carlo Doglioni  
Effects of background mantle flow on subduction dynamics: insights from laboratory models

**XY737**  
**EGU2011-6456**  
**Duygu Kiyani**, Alan G. Jones, Javier Fullea, Colin Hogg, Juanjo Ledo, Agata Siniscalchi, Joan Campanyà, Gerardo Romano, Pierpaolo Moretti, Mohamed Rouai and the The TopoMed MT Team  
Lithospheric-scale geometry of the Atlas Mountains of Morocco revealed by magnetotelluric surveying

**XY738**  
**EGU2011-4217**  
**Maria Neves**, Filippe 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 Harrafi, 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**  
On-going Magnetotelluric (MT) activities within the Topo-Iberia project

**XY742**  
**EGU2011-8948**  
**Jan-Philipp Schmoldt**, Alan G. Jones, Mark Muller, Duygu Kiyani, Colin Hogg, and Oriol Rosell  
Novel geometries and structures within the Iberian lithosphere and asthenosphere beneath the Tajo Basin and Betic Cordillera revealed using magnetotellurics - Results of the PICASSO Phase I project

**XY743**  
**EGU2011-12654**  
Oriol Rosell, Anna Martí, Àlex Marcuello, Juanjo Ledo, **Pilar Queralt**, Eduard Roca, and Joan Campanyà  
Geoelectrical deep structure of the Betic Cordillera (South Spain) revealed: an evidence of asthenospheric upwelling

**XY744**  
**EGU2011-5875**  
**Charlotte Fillon** and Ritske Huismans  
Coupled tectonic-surface processes modeling of the southern Pyrenean fold and thrust belt

**XY745**  
**EGU2011-7621**  
**Jordi Diaz**, David Pedreira, Mario Ruiz, Javier A. Pulgar, and Josep Gallart  
Mapping the indentation between the Iberian and European crusts between the Pyrenees and the Cantabrian Mountains (N Iberia) from seismic methods.
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<td>XY746</td>
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<td>Modelling compression along an extended plate boundary; the influence of along-strike mantle strength variation on subduction polarity</td>
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<td>XY747</td>
<td>EGU2011-12566</td>
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<td>Geophysical-petrological modelling of the lithosphere beneath the Cantabrian Mountains and North-Iberian margin: mantle wedge hydration triggered by eclogitization reactions?</td>
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<td>XY748</td>
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<td>Did thrusting cease in the Northern Alpine Foreland Basin at 12Ma? - Answers from low-temperature thermochronology</td>
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<td>Reconstruction of the pre-glacial Alpine topography to address the glacially-induced modifications</td>
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<td>The Geology of the Alps from the Air</td>
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<td>Alpine pre-glacial topography and Quaternary landscape evolution from (U-Th-Sm)/He, 4He/3He thermochronometry and numerical modelling, Western European Alps</td>
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<td>XY752</td>
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<td>Neogene denudation rates in the Eastern Alps as determined by low temperature thermochronology</td>
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<td>XY753</td>
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<td>Historical river avulsion at the Danube Bend - insights from archive shallow boreholes and vertical geoelectric sounding data at Pilismarót</td>
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<td>XY754</td>
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<td>Quaternary alterations of drainage network in the transition zone between the Alps and the Pannonian Basin</td>
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<td>XY755</td>
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<td>Tectonically influenced landscape evolution in the Hernád-valley region (NE Hungary)</td>
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<td>XY756</td>
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<td>Regional Gravity fields from GRACE observations</td>
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<td>XY757</td>
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<td>Basin evolution in a folding lithosphere. Examples from the Altay-Sayan and northern Tien Shan</td>
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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, Mª 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 Villagarcia, Laura Morillas, Ana Rey, Russel L. Scott, Francisco Domingo, Albertus Johansen 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 Martinez-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 Trieloff, and Bernd Kober  
Inorganic element cycles between volcanic rocks, soils and plants in the Laurel Forest (Tenerife, Canary Islands, Spain).

**BG21**  EGU2011-356  
**Mara Luca**, Juan Pedro Ferrio, Mónica Aguileria, 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 Aguileria, 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 Måguas
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 Bianusa, 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 Måguas
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 18O 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**

**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, Haflid Haflidason, 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
XX8  EGU2011-5094
Juan Carlos Herguera and Daniela Rabiela
Seasonality and ENSO in high resolution cores in the NE Pacific

XX9  EGU2011-5140
Eduardo Zorita and Sebastian Wagner
Transient climate simulations of the Mid-Holocene to present: temperature trends and meridional moisture transport

XX10  EGU2011-5488
Bárd Stevie, Fredrik Charpentier Ljungqvist, and Peter Thejll
Climate reconstruction fundamentals: Testing proxies for linearity.

XX11  EGU2011-5613
Kate?ina 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

XX12  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 ?13C) from a secular pendunculate oak (Quercus robur L.) stand, Nyírség, NE Hungary

XX13  EGU2011-8294
Juan José Gomez-Navarro, Juan Pedro Montávez, Sonia Jerez-Rodriguez, 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

XX14  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)

XX15  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

XX16  EGU2011-8751
Bill Buhay
Recent Climate Change in the Red River Basin, Manitoba, Canada

XX17  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.

XX18  EGU2011-9868
Polona Hafner, Iain Robertson, Danny McCarroll, Neil J. Loader, Mary Gagen, Roderick J. Bale, Högne Jungner, Eloni Sonninen, Emmi Hilasvuori, and Tom Levani?

XX19  EGU2011-9883
Updated chronology of the Lomonosovfonna ice core, Svalbard: implications for paleotemperature reconstruction

XX20  EGU2011-9932
Roel Brienen, Gerd Helle, Thijs Pons, and Emmanuel Gloor
Are oxygen isotopes in Amazon tree rings a good proxy for Amazon rainfall?

XX21  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.

XX22  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)

XX23  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

XX24  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)
An assessment of the stability of the teleconnection between the summer North Atlantic Oscillation and climate in East Asia during the last millennium

Can we constrain future climate predictions with European paleoclimate data of the last millennium?

Long-term climate and streamflow variations in Turkey derived from stable isotopes of Juniperus excelsa

Millennial length summer sunshine reconstructions from stable carbon isotope ratios in tree rings from across Fennoscandia.

Millennial climate reconstructions through data assimilation: what can the proxies tell us about past climates?

The Deep-Sea and Sub-seafloor Frontier initiative - a key to link EC research and international scientific ocean drilling

The Deep Sea and Sub-seafloor Frontier: Past, present and future links in sedimentary seafloor and sub-seafloor ecosystems

Observing deep-sea ecosystem shifts related to global change and human impact

Scientific Ocean Drilling in Norwegian-Arctic Continental Margins To Determine Gas Hydrate Energy and Active Methane Venting


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, Beldou 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 Leroy, 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 Kilby, 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 Ziehmann
A new landscape of storm surge risk for the United States

11:30–11:45  EGU2011-8981
Christine Ziehmann, 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 Mallawatamtri
Framework for a Methodology to Integrate Vulnerability to Develop Flood Risk Profiles for Ayagama and Elapatha, Sri Lanka.
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

Marie-Kristina Thomson and Barbara Page
Insured exposure development for estimating the financial consequences of windstorm risk in Europe

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

Aidan Slingsby, Jane Strachan, Pier-Luigi Vidale, Jason Dykes, and Jo Wood
Browsing large natural hazard event sets

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

Justin Butler, Juan England, and Emma Roberts
Insurance-focussed prototype models for analysing and visualising flood risk in Latin American megacities

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

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

Linda Speight, Jim Hall, Chris Kilsby, and Paul Kershaw
Understanding spatial and temporal dependencies in flood risk exposure in the UK

Jillian Eldridge and Diane Horn
Planning policy and flood risk, a sustainable insurance future in the Thames Gateway?

Nilgün Okay
Coastal Geo-Hazards around the Mediterranean Sea and Risk Reduction

Gabriele Villarini, James Smith, and Mary Lynn Baek
Towards the Development of a US Flood Model

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

Jessica Turner, Katie Coughlin, and Enrica Bellone
Regional increases in landfall frequency and intensity of Atlantic hurricanes in a stochastic model forecast

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

Michael Kunz, Marc Puskeiler, and Susanna Mohr
Assessment of the hail hazard from a combination of radar and insurance data

Pierrick Nicolet, Marc Choffet, and Michel Jaboyedoff
Landslides distribution during intense climatic events, the case of August 2005 in Switzerland

James Daniell
The Worldwide CATDAT Damaging Earthquakes and Damaging Volcanoes Databases: Socio-economic
trends, values and analysis including 2010.
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.

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
Halís X/Y | Display Time 08:00–19:30
Author in Attendance: 10:30–12:00
Chairperson: Timothy Ferdelman, Catherine Mevel

Beth Orcutt, Laura Lapham, and Peter Girguis
Introducing MIMOSA - A Microbial Methane Observatory for Seafloor Analysis

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

Timothy Ferdelman, Wiebke Ziebis, and James McManus
North Pond: A model for the biogeochemical development of an open ocean sub-seafloor sedimentary
ecosystem?

Alan Jamieson and Imants Priede
Biological investigation and exploration of the hadal zone (6000 - 11,000 m)

Bo Barker Jørgensen and R. John Parkes
The deep biosphere - a European challenge

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 sub-seafloor sediment of the northeastern Bering Sea Slope (IODP
Exp. 323)

Anthony Grehan
CoralFISH: Ecosystem based management of corals, fish and fisheries in the deep waters of Europe and
beyond

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

Miquel Canals and Vasilis Likousis
The Deep Sea & Sub-SeaFloor Frontier: Sediment Dynamics and Geohazards

Xavier Tubau, Galderic Lastras, Miquel Canals, Oriol Veres, David Amblas, Xavier Rayo, Aaron Micallef, and
Hermsesone Shipboard Party
Geomorphology of the Foix submarine canyon system, NW Mediterranean Sea

Oriol Veres, Galderic Lastras, Miquel Canals, Sara Lafuera, Ben De Moi, David Amblas, Ruth Durán, Sergio
Costa, Aaron Micallef, Christian Berndt and the HERMESIONE Shipboard Team
Relief forming processes in the Elvissa channel, Western Mediterranean

Aaron Micallef, Douglas G. Masson, Christian Berndt, and Dorrik A.V. Stow
Failure processes in submarine landslides: A geomorphometric approach.

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

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
Angelo De Santis, Phil Weaver, and DS3F Work Package 8 Working Group
Deep sea frontier infrastructure and synergy in Europe

Cemil Gürbüz, Dogan Kalafat, Mehmet Yılmazer, Süleyman Tunç, and Sezim Güvercin
Marmara Sea Bottom Observatory (MSBO) Project and Preliminary Results From First Observations

Sarah Davies, Mike Lovell, Peter Fitch, Jenny Inwood, and Joanne Tudge
Optimising subsurface characterisation from core and logs: applications for the deep-sea frontier

Achim Kopf and Pierre Henry
Real-Time Amphibic Monitoring 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 Aleutean 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