

EGU General Assembly 2011
Programme Group Programme
NH – Natural Hazards

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Monday, 04 April

GM8.3 – Coastal zone geomorphologic interactions: natural versus human-induced driving factors (co-listed) – Orals

Convener: Margarita Stancheva | Co-Conveners: Andreas Baas, Giorgio Anfuso, Hannes Tönisson

Room: 21

Chairperson: Margarita Stancheva and Andreas Baas

- 15:30–15:45 EGU2011-4789
Edward J. Anthony
 The geomorphology of Mediterranean Coasts: Imbrication of natural and human-induced driving forces over the last five thousand years
- 15:45–16:00 EGU2011-581
Daria Ryabchuk, Igor Leont'ev, Alexander Sergeev, and Elena Nesterova
 Genesis and morphology of sand spits of the Eastern Gulf of Finland and their development under natural and anthropogenic impact
- 16:00–16:15 EGU2011-3329
 Dafydd Lloyd Jones and **Joni Thomas Backstrom**
 Regional Modelling of Hydrodynamic Changes as a Result of Cumulative Marine Aggregate Dredging, South Coast, UK
- 16:15–16:30 EGU2011-4227
Derek Jackson and Andrew Cooper
 Coastal dune fields in Ireland: rapid regional response to climatic change
- 16:30–16:45 EGU2011-3504
Manuel Garcin, Marissa Yates, Goneri Le Cozannet, Patrice Walker, and Vincent Donato
 Sea level rise and coastal morphological changes on tropical islands: examples from New Caledonia and French Polynesia (SW Pacific)
- 16:45–17:00 EGU2011-13209
Robert Young
 Are there any natural beaches remaining in the United States?

GM8.3 – Coastal zone geomorphologic interactions: natural versus human-induced driving factors (co-listed) – Posters

Convener: Margarita Stancheva | Co-Conveners: Andreas Baas, Giorgio Anfuso, Hannes Tönisson

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Hannes Tönisson

- A192 EGU2011-3446
Goneri Le Cozannet, Anny Cazenave, David Salas Y Méliá, Guy Wöppelmann, Vincent Donato, Patrice Walker, Philippe Rogel, Manuel Garcin, and Marissa Yates
 Sea level rise implications on shoreline changes: expectations from a retrospective analysis
- A193 EGU2011-4154
Neki Frasher, Alfred Frasher, Niko Pano, and Salvatore Bushati
 Outlook on seawaters dynamics and geological factors of development of Albanian Adriatic coastline
- A194 EGU2011-4891
Mark Horwitz and Ping Wang
 Barrier Island Response to Hurricane Ivan: Santa Rosa Island, Florida, USA
- A195 EGU2011-7630
Andrew Cooper and Derek Jackson
 Barrier island migration over bedrock and implications for climate change adaptation.
- A196 EGU2011-6573
 Kwang Hee Choi, **Sae Rom Han**, Pil Mo Jung, Yoon Mi Kim, Jae Ho Lee, Jung Hyo Lee, Young Kyu Shin, and Min Hwan Suh
 Responses of coastal dunes to the tropical cyclone along the west coast of Korea
- A197 EGU2011-7666
Andrew Cooper and Derek Jackson
 Ireland's only two barrier islands: human and natural genesis.
- A198 EGU2011-6099
Tae Soo Chang, Dong Geun Yoo, and Eunil Lee
 Multi time-scale morphologic responses of a mid-channel tidal bar to anthropogenic impacts and natural processes: its application to shipping hazard assessment
- A199 EGU2011-12782
Cheng-Hwa Lu and Shyh-Jeng Chyi
 The model for the development of shore platform in Penghu Islands, Taiwan

- A200 EGU2011-6619
Goesta Hoffmann
Forcing factors of coastal change: case study Sultanate of Oman (Arabian Peninsula)
- A201 EGU2011-4933
Tiffany M. Roberts and Ping Wang
Factors Influencing the Performance of Several Beach Nourishment Projects: Pinellas County, Florida, USA
- A202 EGU2011-5975
Carmen Maria Roskopf, Pietro Patrizio Ciro Aucelli, and Emanuela Iannantuono
Recent shoreline evolution and erosion trends of the Molise coast (southern Italy) and their possible relation to natural and human-induced driving factors
- A203 EGU2011-968
Mohamed Moncef Serbaji and Khaled Medhioub
Integrated coastal zone management of Sfax region including the Kerkennah island (Tunisia)
- A204 EGU2011-6873
Hannes Tõnisson, Kaarel Orviku, and Are Kont
Coastal zone management and changing character of shore processes - a story about Kiipsaare lighthouse.
- A205 EGU2011-4883
Atanas Palazov, Margarita Stancheva, Adrian Stanica, Gheorghe Viorel Ungureanu, Hristo Stanchev, Florin Dutu, and Georgi Parlichev
Inventory of port/coastal defence structures along the Bulgarian-Romanian part of the Western Black Sea coast
- A206 EGU2011-4200
Pauline Letortu, Stéphane Costa, Jean-Michel Cador, Romain Le Gendre, and Hervé Quéno
To the determination of triggering factors of chalk cliff collapses in Upper Normandy
- A207 EGU2011-7783
Xianrong Ding, Xiaoping Ge, Qing Li, Yanyan Kang, and Tingting Zhang
Comparison of the Coastal Landforms along Jiangsu Province of China with Inland Desert Landforms
- A208 EGU2011-9949
bora rojaj and lütfi süzen
Shift of the Büyük Menderes River and the evolution of the delta plain, Western Anatolia, Turkey.
- A209 EGU2011-13600
José Pinho, Helena Granja, **Luisa Bastos**, José Gonçalves, Renato Henriques, Ana Bio, Eduardo Loureiro, and Américo Magalhães
Coastal zone geomorphologic interactions: natural versus human-induced driving factors

GMPV16 – Volcanology and archaeology: understanding the impact of volcanic eruptions on human settlements and activity throughout history and prehistory (co-listed) – Posters

Convener: Sandro de Vita | Co-Conveners: Claude Albore Livadie, Mauro Antonio Di Vito, Elena Zanella

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Mauro A. Di Vito

- XY284 EGU2011-665
Emma Gatti, Adam Durant, Philip Gibbard, and Clive Oppenheimer
Hydrological response to the Toba eruption as recorded in the Quaternary sediments of the Son river, Madhya Pradesh, India: implications for landscape evolution and Middle-Palaeolithic human settlements
- XY285 EGU2011-994
Ciprian Stremtan, Hasan Ashkanani, and Robert Tykot
Establishing a Sourcing Database for pXRF, XRD, ICP-MS and Petrographic Analyses of Failaka Island (Kuwait) Ceramics in the Bronze Age
- XY286 EGU2011-1954
Elena Zanella, Enzo Ferrara, Laura Bagnasco, Annunziata Ollà, and Roberto Lanza
Magnetite grain-size and sourcing of archaeological obsidians
- XY287 EGU2011-2162
Sebastian Vogel and Michael Märker
Modeling the spatial distribution of AD 79 pumice and surge deposits of Somma-Vesuvius within the Sarno River plain (Campania, Italy)
- XY288 EGU2011-4600
Emma Johnston, Jeremy Phillips, and Costanza Bonadonna
Reconstructing the tephra dispersal pattern from the Bronze Age eruption of Santorini using an advection-diffusion model
- XY289 EGU2011-4678
Jutta Geisweid and Holger Schaaff
Volcanic origin and emplacement of the East Eifel tuff and its distribution as a building material since Roman times

- XY290 EGU2011-6585
Roberto Sulpizio, Giacomo Eramo, Angela Gargallo, **Elena Zanella**, Luca Nodari, Umberto Russo, Mauro Antonio Di Vito, and Jim Bishop
Estimation of deposition temperature of the Pomici di Avellino (Somma-Vesuvius, 3.8 ka BP) products at Afragola village (Naples, Early Bronze Age): understanding the anomalies of TRM carried by potsherds embedded in the PDC deposits
- XY291 EGU2011-6676
Heather Sangster, David Chester, Angus Duncan, and Neil Macdonald
Human adjustments to the 1906 eruption of Vesuvius, Italy
- XY292 EGU2011-6896
Mauro Antonio Di Vito, Nicola Castaldo, Sandro de Vita, Elena Zanella, Giuseppe Vecchio, Roberto Lanza, and Tema Evdokia
Human colonization and volcanic activity in the Eastern Campania Plain (Italy) between Early Bronze Age and 79 AD.
- XY293 EGU2011-7513
Mauro Antonio Di Vito, Giuliana Boenzi, Daniela Gianpaola, Marina Di Marco, Massimo D'Antonio, Marco Giglio, Silvana Iodice², Giovanna Ronga, Tiziana Matarazzo, Angela Mormone, and Monica Piochi
Volcanic activity and human settlements from 8,000 years ago until the 16th century AD in the western part of the city of Naples (Italy)
- XY294 EGU2011-9877
Sandro de Vita, Mauro Antonio Di Vito, and Costanza Gialanella
The 5th century BC 'Ischia Porto Tephra
- XY295 EGU2011-13978
Guido Giordano
Volcanoes and Human History: the Lake Albano Maar in Roman History and Mythology
- XY296 EGU2011-13999
Claude Albore Livadie, Mauro Antonio Di Vito, Jim Bishop, and Sandro de Vita
The Plinian 'Pomici di Avellino' eruption of Vesuvius (Italy) and its impact on late Early Bronze Age settlements

NH1.2/AS4.7/HS12.6 – Hydrometeorological modeling and Earth observations under extremes: issues of scale, dependence and robust frameworks for collective risk assessment (co-organized) – Orals

Conveners: Andras Bardossy, Douglas Cripe | Co-Conveners: Antonio Parodi, Efi Foufoula, Murugesu Sivapalan, Boyko Dodov, Giorgio Boni, Roberto Rudari

Room: 10

Chairperson: Andras Bardossy

- 08:30–08:45 EGU2011-2216
Alberto Viglione, Günter Blöschl, Murugesu Sivapalan, and Bruce Rhoads
Estimation of flood peak frequencies at river confluences
- 08:45–09:00 EGU2011-12649
Witold F. Krajewski, Ricardo Mantilla, Luciana K. Cuhna, and James A. Smith
Multi-scale Analysis of Extreme Flooding in Iowa, USA
- 09:00–09:15 EGU2011-14026
Cecilia Svensson, Caroline Keef, and Jonathan A. Tawn
Spatial dependence in floods and extreme precipitation
- 09:15–09:30 EGU2011-13430
Ioulia Tchiguirinskaia, Daniel Schertzer, Tuan Hoang, and Shaun Lovejoy
Multifractal Extremes and Adaptation of Water Management to Climate Change
- 09:30–09:45 EGU2011-6344
Florian Pappenberger
Forecast (in)consistency in a hydro-meteorological chain: Curse or blessing?
- 09:45–10:00 EGU2011-7242
Jun She
Tropical storm forecast verification using a mesoscale NWP model HIRLAM

COFFEE BREAK

Chairperson: Douglas Cripe

- 10:30–10:45 EGU2011-9940
Geraldine Wong and Lena M Tallaksen
A comparison of spatial and temporal methodologies for the analysis of European drought

- 10:45–11:00 EGU2011-12751
Giorgio Boni and the The OPERA Team
Operational flood risk monitoring and prediction systems: the experience of the OPERA project of the Italian Space Agency
- 11:00–11:15 EGU2011-14037
Stella Hubert, Guenter Strunz, Michael Nyenhuis, and Stephanie Göbel
Earth Observation contributions to Disaster Management of Floods - Status quo, gaps and ways forward
- 11:15–11:30 EGU2011-4313
John Mejia, Darko Koracin, and Benjamin Hatchett
Impact of variable horizontal resolution of the regional WRF climate model and biases in the global climate models on precipitation simulated over the western U.S.
- 11:30–11:45 EGU2011-11980
Guillaume Thirel, Peter Salamon, Peter Burek, Milan Kalas, Vera Thiemig, and Jutta Thielen
Use of satellite based observations in Continental Flood Alert System in Europe and Africa
- 11:45–12:00 EGU2011-11754
Nazzareno Pierdicca, Luca Pulvirenti, Marco Chini, Leila Guerriero, and Laura Candela
Spaceborne Radar For Mapping Floods: A Pre-Operational Approach Integrating Models And Ancillary Data Applied To COSMO-SkyMed Images

NH1.2/AS4.7/HS12.6 – Hydrometeorological modeling and Earth observations under extremes: issues of scale, dependence and robust frameworks for collective risk assessment (co-organized) – Posters

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Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY360 EGU2011-6019
Tatiana Ghizzoni, Giorgio Roth, and **Roberto Rudari**
Information entropy concepts for collective flooding hazard model selection
- XY361 EGU2011-2478
Nicol Pereckova and Zdenek Macka
Applications of hydromorphological monitoring in the assessment of channel network in the urban and suburban environment - an example from the City of Brno, Czech Republic
- XY362 EGU2011-6688
Elke Hertig and Jucundus Jacobeit
Assessment of extreme events in the Mediterranean area
- XY363 EGU2011-9025
Sandra G. García Galiano, Juan D. Giraldo Osorio, and Claudia N. Tetay Botía
Assessing the spatial-temporal patterns of frequency and severity of extreme rainy events under a changing climate: case study of the Segura River Basin (Spain)
- XY364 EGU2011-9822
Albert Comellas, Maria-Carmen Llasat, Luca Molini, Antonio Parodi, Franco Siccardi, and Jordi Cunillera
Predictability and predictive ability of severe rainfall events over Catalonia for year 2008
- XY365 EGU2011-10052
Nicola Reborà, Luca Molini, Roberto Rudari, and Fabio Castelli
An ensemble approach for spatial interpolation of precipitation fields
- XY366 EGU2011-10533
Alessandro Bonazzi, Stephen Cusack, Stephen Jewson, and Christos Mitas
European Wind Storms: an extreme value analysis of joint wind gust measured by anemometers across major cities.
- XY368 EGU2011-10451
William Collins, Fuyu Li, Michael Wehner, David Williamson, and Jerry Olson
Response of precipitation extremes to global warming in an aqua-planet climate model: Towards robust projection from regional to global scales
- XY369 EGU2011-2549
Sergio Rosim, Eymar Silva Sampaio Lopes, João Ricardo de Freitas Oliveira, Camilo Daleles Rennó, Alexandre Copertino Jardim, and Eric Silva Abreu
Combining TerraHidro and SISMA DEN Open Source Systems to Warn Extreme Natural Disasters
- XY370 EGU2011-5905
Ioannis Tsanis, Ioannis Daliakopoulos, Kostas Seiradakis, and Aristeidis Koutroulis
Improving flood risk assessment using a satellite stereo-pair high resolution DEM
- XY371 EGU2011-8994
pedro chambel-leitao, António Araujo, António Tabasco Cabezas, and Ramiro Neves
Merging Hydrologic models and EO data for reliable information on Water - MyWater

- XY372 EGU2011-10637
Fabio Castelli, Lorenzo Campo, Francesca Caparrini, and Roberto Rudari
 Impact of LST-Based Soil Moisture Index on an Operational Flood Forecasting System
- XY373 EGU2011-11512
Mehmet Coskun and Luis Samaniego
 Trend analysis of Meteorological data in Germany
- XY374 EGU2011-11491
Giorgio Boni and the The OPERA Team
 Assessment of impact of storms at large scale: the potential of coupling modelling and remote sensing observations.
- XY375 EGU2011-11644
Mariapia Faruolo, Irina Coviello, Teodosio Lacava, Nicola Pergola, and Valerio Tramutoli
 A multi-sensor RST based approach for flooded areas detection and monitoring: the November 2010 Veneto region flood.
- XY376 EGU2011-13323
Stephan Seeling and Hugo Hellebrand
 Assessing the long-term ecohydrology evolution of a meso-scale catchment in central Europe employing a combination of different monitoring techniques
- XY377 EGU2011-14046
Simone Gabellani, Silvestro Francesco, Fabio Delogu, Giorgio Boni, and Roberto Rudari
 A Fully Distributed Model for Water Management and Flood Forecasting exploiting Satellite Observations

HS7.1/AS4.8/NH1.10/NP3.9 – Precipitation: from measurement to modelling and application in catchment hydrology (co-organized) – Orals

Convener: Remko Uijlenhoet | Co-Conveners: Alin Andrei Carsteanu, Chris Onof, Alexis Berne, Paolo Burlando, Tim Bellerby, Roberto Deidda, Giovanna Grossi, Andreas Langousis

Room: 33

Chairperson: Remko Uijlenhoet and Tim Bellerby

- 08:30–08:45 EGU2011-804
Auguste Gires, Ioulia Tchiguirinskaia, Daniel Schertzer, Christian Onof, Cedo Maksimovic, Nuno Simoes, and Schaun Lovejoy
 Quantifying the uncertainty on urban runoff associated to unmeasured small-scale rainfall variability: a comparison of two cases study
- 08:45–09:00 EGU2011-2805
Geoff Pegram, Xavi Lloret, and Daniel Sempere-Torres
 Separating signal and noise in radar-rainfall fields to generate meaningful ensembles
- 09:00–09:15 EGU2011-3138
Juan Duan, Neil McIntyre, and Christian Onof
 Statistical modelling of rainfall for drought risk assessment in southeast England
- 09:15–09:30 EGU2011-10368
Andràs Bàrdossy and Geoffrey Pegram
 Rainfall interpolation and simulation in hilly and mountainous regions using spatial copulas
- 09:30–09:45 EGU2011-13396
Jean-Marie Lepioufle and Kolbjørn Engeland
 Spatial and temporal block conditioned rainfall simulation; an application using an hourly punctual raingauges network and an instantaneous 1km²-pixel estimated precipitation from weather radar
- 09:45–10:00 EGU2011-13006
Jose Luis Salinas and Rafael Garcia Bartual
 Analysis and stochastic modelling of extreme rainfall events. Application in the spanish mediterranean region

COFFEE BREAK

Chairperson: Tim Bellerby and Remko Uijlenhoet

- 10:30–10:45 EGU2011-11093
Jose D Fuentes, Marcia S. DeLonge, Paul A. Kucera, Everette Joseph, and Seydi Ababacar Ndiaye
 Attributes of West African convective storms during 2006

- 10:45–11:00 EGU2011-6140
Sander Vandenberghe, Willem Jan Vanhaute, Karolien Scheerlinck, Christian Onof, Bernard De Baets, and Niko Verhoest
 How to improve the calibration of Bartlett-Lewis stochastic point rainfall models in order to better simulate extreme rainfall events?
- 11:00–11:15 EGU2011-5153
Seth Westra, Ashish Sharma, and Rajeshwar Mehrotra
 Continuous rainfall simulation: A regionalised non-parametric approach
- 11:15–11:30 EGU2011-5947
Robert Krier, Patrick Matgen, Klaus Görden, Laurent Pfister, Lucien Hoffmann, Stefan Uhlenbrook, Hubert Savenije, and James Kirchner
 Semi-distributed rainfall rates inferred from discharge observation networks
- 11:30–11:45 EGU2011-13384
Aart Overeem, Hidde Leijnse, and Remko Uijlenhoet
 Measuring urban rainfall using microwave links
- 11:45–12:00 EGU2011-11266
Carlo de Michele and Massimiliano Ignaccolo
 Statistical collapse of stratiform and convective drop diameter distributions at the ground

HS7.1/AS4.8/NH1.10/NP3.9 – Precipitation: from measurement to modelling and application in catchment hydrology (co-organized) – Posters

Convener: Remko Uijlenhoet | Co-Conveners: Alin Andrei Carsteanu, Chris Onof, Alexis Berne, Paolo Burlando, Tim Bellerby, Roberto Deidda, Giovanna Grossi, Andreas Langousis

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Remko Uijlenhoet and Tim Bellerby

- A367 EGU2011-374
Roberto Moncho
 A generalization of the log-logistic distribution for the probability of daily precipitation
- A368 EGU2011-1927
Renji Remesan, Tim Bellerby, Asnor Ishak, and Dawei Han
 Uncertainties in hydrological prediction using input ensembles from different cumulus parameterization schemes (CPSs)
- A369 EGU2011-2214
Brandon Parkes
 Improvements in early flood forecasting using a 1-hour gridded precipitation dataset to drive a hydrological model. A case study of the summer floods in the Upper Severn, UK
- A370 EGU2011-2548
Christopher Skinner, Helen Greatrex, Tim Bellerby, and David Grimes
 Impact of Rainfall Estimation Uncertainty on Hydrological Modelling of the Senegal River Basin
- A371 EGU2011-2747
Daniel Lindsey
 An Objective Probabilistic Prediction Product for Severe Hail Using Satellite Observations
- A372 EGU2011-3044
Hannes Müller and Uwe Haberlandt
 Effect of different temporal rainfall disaggregation methods on derived flood frequency analysis
- A373 EGU2011-5993
Ioannis Sideris, Marco Gabella, Urs Germann, Rebekka Erdin, and Christoph Frei
 Real-time radar-raingauge spatiotemporal combination in Switzerland.
- A374 EGU2011-6123
Marielle Gosset and Julien Viarre
 evaluation of satellite rainfall products used for hydrological applications in West Africa
- A375 EGU2011-6143
 Max Kigobe, Ann van Griensven, Yunqing Xuan, **Giuliano Di Baldassarre**, Neil Mc Intyre, and Howard Wheater
 Stochastic Rainfall Modelling in the Upper Nile
- A376 EGU2011-6428
Mojca Sraj and Urska Bajc
 Calculations and analyses of systematic errors in precipitation measurements
- A377 EGU2011-7737
Maurizio Savina and Paolo Burlando
 Precipitation field driven weather radar conversion

- A378 EGU2011-7761
Ageel Bushara, Mekonnen Gebremichael, Thomas Over, Riccardo Rigon, and Christa D. Peters-Lidard
Utility of remotely-sensed precipitation products for hydrological simulations at basin scale
- A379 EGU2011-9165
Francesco Lo Conti, Kuo-lin Hsu, Soroosh Sorooshian, and Leonardo V. Noto
Evaluation and comparison of satellite precipitation estimates with reference to a local area
- A380 EGU2011-9438
Limin Wu, John Schaake, Julie Demargne, James Brown, and Robert Hartman
Using the GFS Ensemble Mean to Generate Medium-range Precipitation Ensemble Forecasts for Hydrologic Ensemble Prediction
- A381 EGU2011-10423
Martinus van den Berg, Bernard de Baets, and Niko Verhoest
Copula-based downscaling of rainfall
- A382 EGU2011-10791
Fabrizio Fenicia, Laurent Pfister, Patrick Matgen, and Lucien Hoffmann
Estimating rainfall with microwave links. Insight from an experimental setup in Luxembourg-City
- A383 EGU2011-6217
Dionysia Panagoulia and Chrys Caroni
Modelling maximum monthly precipitation in temporal climate evolution
- A384 EGU2011-7379
Muhammad Rehan Anis and Michael Rode
An improved method for the temporal disaggregation of rainfall at a finer time scale
- A385 EGU2011-7861
Klaus Haslinger, Barbara Chimani, and Reinhard Boehm
Solid and Liquid Precipitation in major river catchments originating in the European Alps
- A386 EGU2011-8798
David Ian Francis Grimes, Helen Greatrex, and Tim Wheeler
Ensemble approach to disaggregation of seasonal rainfall forecasts in the context of crop yield prediction. Case study: maize yield in Ethiopia.
- A387 EGU2011-9816
Marcus Malsy, Tim aus der Beek, and Martina Flörke
Sensitivity of water availability in Central Asia with respect to various climate datasets in particular the input parameter precipitation
- A388 EGU2011-11378
Reinhard Teschl, Walter L. Randeu, and Franz Teschl
Investigating the variability of precipitation in a mountainous catchment using data-driven approaches
- A389 EGU2011-12743
Sadegh Ghazanfari, Aa Alizadeh, Aa Farid, and Mm Bannayan
Comparison the PERSIANN model with interpolation methods to estimate daily precipitation (A case study: North-Khorasan, Iran)
- A390 EGU2011-12834
Li-Pen Wang, Christian Onof, and Cedo Maksimovic
An improved discrete cascade method for sub-daily rainfall modelling
- A391 EGU2011-13482
Yisak Abdella, Kolbjørn Engeland, Jean-Marie Lepioufle, and Knut Alfredsen
Distributed modelling of catchment hydrology using radar derived precipitation
- A392 EGU2011-13640
Maurice Schmeits and Kees Kok
A comparison between raw ensemble output, (modified) Bayesian model averaging and extended logistic regression using ECMWF ensemble precipitation reforecasts
- A393 EGU2011-12262
Nan Yu, Pieter Hazenberg, Guy Delrieu, Brice Boudevillain, and Remko Uijlenhoet
The parameterization of the general raindrop size distribution by the gamma probability density function

NH2.3/AS4.29/GMPV47 – The 2010 flank and summit eruptions at Eyjafjallajökull volcano (Iceland): History of an eruption from source to the atmosphere (co-organized) – Orals

Convener: Thorvaldur Thordarson | Co-Conveners: Susan Loughlin, Sigrun Hreinsdottir, Halldór Björnsson, Séverine Moune

Room: 4

Chairperson: n.n.

- 13:30–13:45 EGU2011-12542
Magnus T Gudmundsson, Armann Hoskuldsson, Gudrun Larsen, Thor Thordarson, Bjorn Oddsson, Thordis Hognadottir, Ingibjorg Jonsdottir, Halldor Bjornsson, Nina G Petersen, and Eyjolfur Magnusson
Eyjafjallajökull April-June 2010: An explosive-mixed eruption of unusually long duration

- 13:45–14:00 EGU2011-12221
Sigurlaug Hjaltadóttir, Kristin S Vogfjörð, and Ragnar Slunga
 A Seismological Image of the Eyjafjallajökull Plumbing System during 2009-2010
- 14:00–14:15 EGU2011-11656
Rikke Pedersen, Freysteinn Sigmundsson, Andrew J. Hooper, Sigrún Hreinsdóttir, Thóra Árnadóttir, Matthew J. Roberts, Páll Einarsson, Erik Sturkell, and Kurt L. Feigl
 Imaging the magmatic plumbing system at Eyjafjallajökull volcano, Iceland, through 18 years of surface deformation observations
- 14:15–14:30 EGU2011-12589
Olgeir Sigmarsson
 The dynamic magma mixing during the 2010 eruption of Eyjafjallajökull, Iceland.
- 14:30–14:45 EGU2011-9855
Jakob Kloeve Keiding and Olgeir Sigmarsson
 Geothermobarometry of the 2010 Eyjafjallajökull eruption
- 14:45–15:00 EGU2011-4184
Severine Moune, Olgeir Sigmarsson, Pierre Schiano, Thorvaldur Thordarson, and Chris Hayward
 Volatile characterisations of Eyjafjallajökull volcano (Iceland): from the magmatic source at depth to the surface
- 15:00–15:15 EGU2011-11242
Michael Burton, Giuseppe Salerno, Alessandro La Spina, Andri Stefansson, and Hanna H. Kaasalainen
 Measurements of volcanic gas emissions during the first phase of eruptive activity of Eyjafjallajökull, April 2010
- Chairperson: n.n.
- 15:30–15:45 EGU2011-14165
Ármann Höskuldsson and the Eyjafjallajökull eruption Team
 Eruption dynamics of the 2010 summit eruption at the Eyjafjallajökull volcano (Iceland): Magma fragmentation, tephra stratigraphy and transport
- 15:45–16:00 EGU2011-7983
Gudrun Nina Petersen, Þórður Arason, and Halldór Björnsson
 Observed interaction of the Eyjafjallajökull eruption plume and the ambient atmosphere
- 16:00–16:15 EGU2011-3476
Costanza Bonadonna, Genco Riccardo, Gouhier Mathieu, Pistolesi Marco, Alfano Fabrizio, Cioni Raffaello, Höskuldsson Ármann, and Ripepe Maurizio
 Tephra sedimentation during the 2010 Eyjafjallajökull eruption (Iceland) from deposit, radar and satellite observations
- 16:15–16:30 EGU2011-11112
 Julie Calkins, Claire Nattrass, Ellie Harris, Marie Detienne, Nicola Myers, Leon van den Berg, and **Pierre Delmelle**
 Environmental impacts of ash deposition following the 2010 eruption of Eyjafjallajökull volcano, Iceland
- 16:30–16:45 EGU2011-2598
Claire Horwell, Peter Baxter, Sarah Hillman, and David Damby
 Respiratory health hazard assessment of ash from the 2010 eruption of Eyjafjallajökull volcano, Iceland.
- 16:45–17:00 EGU2011-13041
Andy Russell, Rob Duller, Andy Large, Anne-Sophie Mériaux, Matthew Roberts, Stuart Dunning, Qiuhua Liang, Jonathan Carrivick, Fiona Tweed, and Málfríður Ómarsdóttir
 The sedimentary impact of jökulhlaups of contrasting rheology generated by the April 2010, Eyjafjallajökull eruption

NH2.3/AS4.29/GMPV47 – The 2010 flank and summit eruptions at Eyjafjallajökull volcano (Iceland): History of an eruption from source to the atmosphere (co-organized) – Posters

Convener: Thorvaldur Thordarson | Co-Conveners: Susan Loughlin, Sigrún Hreinsdóttir, Halldór Björnsson, Séverine Moune

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY378 EGU2011-12212
Thorvaldur Thordarson, Ármann Höskuldsson, Olgeir Sigmarsson, Magnús Guðmundsson, Eyjólfur Magnússon, and Freysteinn Sigmundsson
 The 20 March to 12 April basaltic Fimmvörðuháls flank eruption at Eyjafjallajökull volcano, Iceland: course of events

- XY379 EGU2011-10618
Armann Hoskuldsson, Thor Thordarson, Olgeir Sigmarsson, Magnús T Guðmundsson, Guðrún Larsen, Björn Oddsson, Eyjólfur Magnússon, and Þórdís Högnadóttir
 The Fimmvörðuháls flank eruption 2010 Iceland, complex emplacement of basaltic lava flow onto ice and snow.
- XY380 EGU2011-6792
Antonio Castro, Rocío Pedreira, and Joan Andújar
 Phase equilibria and fractionation of 2010 Eyjafjallajökull flank basaltic eruption
- XY381 EGU2011-3713
Haraldur Páll Gunnlaugsson, Kristine Albers Olsen, Sigurdur Steinthorsson, and Per Nørnberg
 Mössbauer Spectroscopy and Electron Microscope Imaging of Samples from the 2010 Flank Eruption at Eyjafjallajökull
- XY382 EGU2011-12147
 Thorvaldur Thordarson, **Chris Hayward**, Séverine Moune, Margaret Hartley, Olgeir Sigmarsson, Ármann Höskuldsson, Magnús T. Guðmundsson, and Freysteinn Sigmundsson
 The 20 March - 12 April 2010 Fimmvörðuháls eruption, Eyjafjallajökull volcano, Iceland: Volatile contents and magma degassing.
- XY383 EGU2011-1371
Andreas Stohl and the Inversion Team
 Time- and height-resolved fine ash emissions from the Eyjafjallajökull eruption
- XY384 EGU2011-11612
 Nicola Pergola, Gianluca Arcomano, Carolina Filizzola, Teodosio Lacava, Francesco Marchese, and **Valerio Tramutoli**
 Satellite monitoring of Eyjafjallajökull (Iceland) volcano by means of Robust Satellite Techniques (RST)
- XY385 EGU2011-3128
 Patrick Chazette, **Marc Bocquet**, Philippe Royer, Victor Winiarek, Jean-Christophe Raut, Philippe Labazuy, Mathieu Gouhier, Melody Lardier, and Jean-Pierre Cariou
 Lidar and modelling to study the Eyjafjallajökull ash concentrations
- XY386 EGU2011-5484
Piet Stammes, Marc Allaart, Arnoud Apituley, Dave Donovan, Marijn de Haij, Wouter Knap, Deborah Stein Zweers, Gijs Tilstra, Olaf Tuinder, and Daan Voegelezang
 Characterization of the Eyjafjallajökull volcanic ash cloud over the Netherlands from remote sensing observations
- XY387 EGU2011-4255
Ina Mattis, Albert Ansmann, Matthias Tesche, Annett Skupin, Patric Seifert, Dietrich Althausen, Holger Baars, Anja Hiebsch, Jörg Schmidt, and Ulla Wandinger
 Temporal development of the Eyjafjallajökull volcanic plume observed over Leipzig by Raman lidar and AERONET sun photometer
- XY388 EGU2011-10359
Franco Marenco, Kate Turnbull, Ben Johnson, Jim Haywood, Stuart Newman, Alan Vance, James Dorsey, and Martin Gallagher
 Airborne observations of volcanic ash in May 2010 from the FAAM research aircraft, using remote sensing and in-situ probes
- XY389 EGU2011-8223
Fei Gao, Samo Stani?, Klemen Bergant, Tanja Bolte, Franco Coren, Tingyao He, Andrej Hrabar, Ana Mladenovi?, Janja Turši?, and Darko Veberič
 Measurement Campaign of Icelandic Volcanic Ash During its Arrival to Slovenia in April 2010
- XY390 EGU2011-3496
Christian Rolf, Martina Krämer, and Cornelius Schiller
 Ash particles and ice clouds during the Eyjafjalla eruption: Lidar observations and model simulations
- XY391 EGU2011-11698
Alan Vance, Franco Marenco, Sean Milton, Kate Turnbull, Mike Bush, and Andy Bushell
 Stratosphere-Troposphere Exchange Involving the Eyjafjallajökull Volcanic Plume
- XY392 EGU2011-6512
Roland von Glasow, Alan Vance, Andrew J. S. McGonigle, Alessandro Aiuppa, Jeffrey L. Stith, and Kate Turnbull
 Strong ozone loss in atmospheric plume of Eyjafjallajökull
- XY393 EGU2011-11178
Stefano Corradini, Luca Merucci, Alessandro Piscini, and Simona Scollo
 SO₂ and ash simultaneous retrievals on 2010 Eyjafjallajökull eruption by using IR multispectral measurements. Insights into explosive volcanic processes.
- XY394 EGU2011-2115
Robin Campion, Lieven Clarisse, and Alain Bernard
 Measuring SO₂ emissions of Eyjafjallajökull with the infrared images of ASTER satellite.

XY395 EGU2011-7838

Klaus-Peter Heue and the CARIBIC Volcano TeamSO₂ and BrO observation in the plume of the Eyjafjallajökull volcano 2010: CARIBIC and GOME-2 retrievals**NH2.8/GMPV57 – Merapi volcano Central Java, Indonesia: dome collapses and centennial 2010 eruption (co-organized) – Orals**

Convener: Philippe Jousset | Co-Conveners: Surono Surono, Marie Boichu, David J. Schneider, Maria Fabrizia Buongiorno

Room: 4

Chairperson: Surono and Philippe Jousset

08:30–08:45 EGU2011-4082

Birger-G. Luehr, Ivan Koulakov, Wolfgang Rabbel, Jochen Zschau, Antonius Ratdomopurbo, Kirbani Sri Brotopuspito, Pak Fauzi, and David P. Sahara

Fluid ascent and magma storage beneath Gunung Merapi

08:45–09:00 EGU2011-13522

Patrick Allard, Nicole Métrich, and Jean-Christophe Sabroux

Volatile and magma supply to standard eruptive activity at Merapi volcano, Indonesia.

09:00–09:15 EGU2011-5150

Supriyati Andreastuti, Fidel Costa, John Pallister, Sri Sumarti, Sri Subandini, Anjar Heriwaseso, and Yulianto Kurniadi

Petrology and pre-eruptive conditions of the 2010 Merapi magma

09:15–09:30 EGU2011-13937

Akhmad Solikhin, Hendra Gunawan, Surono Surono, and Philippe Jousset

Volcanic tremor analysis during Merapi 2010 explosion sequences

09:30–09:45 EGU2011-9618

Fred Prata, Marie Boichu, Simon Carn, Lieven Clarisse, Elizabeth Ebert, Andrew Prata, and Andrew Tupper

Satellite and ground-based measurements of volcanic emissions during the Merapi 2010 eruption crisis

09:45–10:00 EGU2011-4721

Malte Westerhaus, Andreas Schenk, and Bernhard Heck

Quantification of dome growing and mass accumulation by double differential SAR-interferometry - a TanDEM-X application for volcano monitoring

COFFEE BREAK

Chairperson: Fabrizia Buongiorno and Marie Boichu

10:30–11:00 EGU2011-1182

Surono Surono, Akhmad Solikhin, Agus Budi Santoso, and Subandriyo Subandriyo

Merapi Crisis 2010: Declaring alert levels based on deformation and seismic data

11:00–11:15 EGU2011-3809

David Schneider, John Pallister, Julia Griswold, and Rick Wessels

The 2010 eruption of Merapi Volcano, Indonesia: Use of satellite remote sensing to support crisis response activities

11:15–11:30 EGU2011-4353

Christopher Davies and **Andrew Tupper**

Darwin VAAC Response to the 2010 Merapi Eruption

11:30–11:45 EGU2011-4400

Franck Lavigne, Edouard de Bézizal, Noer Cholik, Nurnaning Aisyah, Adrien Picquout, and Estuning Tyas Wulan Mei

Lahar hazards and risks following the 2010 eruption of Merapi volcano, Indonesia

11:45–12:00 EGU2011-9837

Atyanto Dharoko, Suratman Worosuprojo, Kirbani Sri Brotopuspito, Sudaryono Sastrosasmito, and

Langgeng Wahyu Santosa

2010 Merapi Volcano Eruption: A Study of the Role of Geomorphology for Spatial Planning

NH2.8/GMPV57 – Merapi volcano Central Java, Indonesia: dome collapses and centennial 2010 eruption (co-organized) – Posters

Convener: Philippe Jousset | Co-Conveners: Surono Surono, Marie Boichu, David J. Schneider, Maria Fabrizia Buongiorno

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Surono, Fabrizia Buongiorno, Marie Boichu, Dave Schneider and Philippe Jousset

- XY396 EGU2011-10907
Christoph Sens-Schönfelder and Ulrich Wegler
Passive seismological monitoring at Merapi volcano
- XY397 EGU2011-13699
Antonius Ratdomopurbo
The 2006 Eruption of Mt. Merapi: Seismic, Deformation and Dome Observation
- XY398 EGU2011-7741
Philippe Jousset and Agus Budi Santoso
Very-Long Period seismicity associated with magma intrusion of Merapi 2010 eruption
- XY399 EGU2011-1146
Agus Budi Santoso, Febri Sadono, Purwoto Purwoto, Sapari Dwiyono, and Philippe Jousset
Seismicity associated with the 2010 eruption of Merapi volcano, Central Java, Indonesia
- XY400 EGU2011-12973
Marie Boichu, Hanik Humadai, Yulianto Kurniadi, Fred Prata, Simon Carn, Lieven Clarisse, Philippe Jousset, and Clive Oppenheimer
Comparative evolution of degassing, eruptive activity and seismicity during the 2010 eruption of Merapi
- XY401 EGU2011-10314
Valentin Troll, David R. Hilton, Jane P. Chadwick, Ester M. Jolis, Martin Zimmer, Lara S. Blythe, and Frances M. Deegan
Crustal CO₂ liberation at Merapi volcano, Indonesia: an earthquake trigger?
- XY402 EGU2011-3611
Christian Bignami, Salvatore Stramondo, and Urs Wegmuller
Synthetic Aperture Radar Monitoring of Merapi Volcano 2010 eruption
- XY403 EGU2011-10530
Andre Cahyadi Kalia, Hendrik Zwenzner, André Twele, and Sandro Martinis
TerraSAR-X based image analysis for supporting disaster and crisis-management with respect to the 2010 volcanic eruption at Mt. Merapi (Java - Indonesia)
- XY404 EGU2011-10830
Gwendolyn Läufer, Sabine Rödelsperger, and Carl Gerstenecker
Continuous deformation monitoring of Merapi using optical and microwave tools
- XY405 EGU2011-13702
François Beauducel and **Made Agung Nandaka**
Pre and co-eruptive deformation field at Merapi volcano from kinematic GPS surveys in the summit area
- XY406 EGU2011-2748
Karim Kelfoun
A two-fluid model for block-and-ash flows and ash-cloud surge for the 1994 eruption of Merapi volcano (Indonesia).
- XY407 EGU2011-4312
Sylvain Charbonnier, Ralf Gertisser, Jörg Keller, Xavier Quidelleur, Chuck Connor, and Tim Dixon
Re-assessment of the geological evolution and associated hazards of Merapi Volcano
- XY408 EGU2011-8075
Goneri Le Cozannet and the Le Cozannet G. Team
Setting up a volcanic hazard and risk knowledge database: risk and hazard mapping, WebGIS mapping and scenario building within the MIAVITA project
- XY409 EGU2011-8671
Pierre Thierry, **Philippe Jousset**, Surono Surono and the MIAVITA's Team
Merapi volcano 2010 crisis: a case study for implementing the FP7 MIAVITA European project
- XY410 EGU2011-10269
Antonio Spanu, Sara Barsotti, Augusto Neri, Luca Nannipieri, and M. Fabrizia Buongiorno
A procedure to forecast volcanic ash dispersal: Application to the 2010 Mt. Merapi's eruption
- XY411 EGU2011-2552
Claire Horwell, David Damby, and Peter Baxter
A mineralogical and toxicological assessment of the health hazard of ash from the 2010 Merapi eruption
- XY412 EGU2011-13464
Mary-Ann del Marmol, Chris. G. Newhall, John Fournelle, and Bruce D. Marsh
Revisiting petrology and geochemistry of Merapi volcano, Central Java, Indonesia.
- XY413 EGU2011-14210
Anastassia Y. Borisova, Caroline Martel, Indyo Pratomo, Jean-Paul Toutain, Sophie Gouy, Jean-Philippe Métaxian, and Surono Surono
First Petrologic and Geochemical Data on the 2010 Merapi Eruption (Indonesia)
- XY414 EGU2011-10518
Katie Preece, Jenni Barclay, Ralf Gertisser, and Richard Herd
Petrological evidence of magma storage, ascent and extrusion at Merapi volcano, Java, Indonesia

Convener: Hiroshi Fukuoka | Co-Conveners: Paolo Frattini, Giovanni Crosta, Nejan Huvaj

Room: 1

Chairperson: n.n.

- 08:30–08:45 EGU2011-1226
Ogbonnaya Igwe, Wilfred Mode, Okechukwu Nnebedum, Ikenna Okonkwo, Ikenna Okwara, and Innocent Mbakwe
 Rock fall-Debris avalanche at Imiande-Ukusu Itulygh, Kwande LGA, Benue State, Nigeria
- 08:45–09:00 EGU2011-129
Trufat Hailemariam Gugsa and Jean Friedrich Schneider
 Assessment of Road Cut Slope Instability in the Landslide Prone Ethiopian Highlands
- 09:00–09:15 EGU2011-14198
Dwikorita Karnawati, Hiroshi Fukuoka, Wahyu Wilopo, and Teuku Fathani
 Mechanism of combined earthquake and rain induced landslide in weathered volcanic slopes in Tandikat Area, West Sumatera, Indonesia
- 09:15–09:30 EGU2011-12121
Michael Krautblatter and Daniel Funk
 Why thawing permafrost rocks become unstable
- 09:30–09:45 EGU2011-12154
 Asmae Khaldoun, **Yves Méheust**, Peder Møller, Abdoulaye Fall, Gerard Wegdam, Bert de Leeuw, Jon Fossum, and Daniel Bonn
 Landslides of clayey soils: a dramatic avalanche behavior
- 09:45–10:00 EGU2011-6312
Roland Kaitna, Marisa C. Palucis, Bereket Yohannes, Kimberly M. Hill, and William E. Dietrich
 Effect of fines and grain size distribution on pore fluid pressure and velocity profiles in large scale experimental debris flow

NH3.1/HS8.1.6 – Mechanisms and processes of landslides induced by water (co-organized) – Posters

Convener: Hiroshi Fukuoka | Co-Conveners: Paolo Frattini, Giovanni Crosta, Nejan Huvaj

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY415 EGU2011-1478
Tetsuya Kubota
 The impact of increasing rainfall on landslide slope stability in Kyushu district, Japan
- XY416 EGU2011-2076
Keh-Jian Shou, Li-Yuan Fei, Mein-Ming Chen, Cheng-Yueh Wei, and Chia-Yu Hong
 Sedimentation and Landslides in Gao-Ping Hsi Catchment after the 2009 Typhoon Morakot in Taiwan
- XY417 EGU2011-2337
Byung-Gon Chae and Kyu-Bo Park
 Analysis of rainfall infiltration velocity of unsaturated soil and its relationship with safety factor changes of an infinite slope
- XY418 EGU2011-3064
Michelle Bollschweiler and Markus Stoffel
 Hydro-meteorological conditions responsible for the triggering of past debris flows - a reconstruction dating back to 1864
- XY419 EGU2011-4345
Shinya Nakamura and Sho Kimura
 Estimation of Average Shear Strengths along the Slip Surface of Rainfall induced Mudstone Landslides
- XY420 EGU2011-4458
Yuto Eguchi, Shinya Nakamura, Sho Kimura, and Shriwantha Buddhi Vithna
 Recovered strength of landslide soils and its relationship with re-consolidation time
- XY421 EGU2011-5835
Dr. Vit Vilimek and Dr. Jan Klimes
 Analysis of triggering factors of composite landslide near Rampac Grande, Peru
- XY422 EGU2011-5863
Grigorios Anagnostopoulos, Stefan Carpentier, Markus Konz, Ria Fischer, and Paolo Burlando
 The role of subsurface topography and its implications on the water regime in the Urseren Valley, Switzerland
- XY423 EGU2011-6073
Atitkagna Dok and Hiroshi Fukuoka
 Study of the Tertiary Creep Mechanism by Ring Shear Apparatus for Predicting Initiation Time of Rainfall-Induced Landslides

- XY424 EGU2011-6724
Jean-Baptiste Charlier, Catherine Bertrand, Stéphane Binet, and Jacques Mudry
 Use of continuous measurements of dissolved organic matter fluorescence in groundwater to characterize fast infiltration through an unstable fractured hillslope (Valabres, France)
- XY425 EGU2011-6946
Matthias Müllegger, Christian Scheidl, Michael Chiari, and Dirk Proske
 Physical modelling of debris flows in a small scale
- XY426 EGU2011-6961
Hiroshi Fukuoka, Atitkagna Dok, Ogbonnaya Igwe, and Atsuya Tsukui
 Sliding surface liquefaction and rapid and long runout shallow disrupted slides under extreme weather condition
- XY427 EGU2011-7450
Amin Askarinejad, Patrick Bischof, Francesca Casini, Cornelia Brönnimann, and Sarah M. Springman
 Modelling the interaction of the bedrock and slope in terms of drainage and exfiltration
- XY428 EGU2011-7734
Sasiwimol Nawawitphisit, Dave N. Petley, and Nick J. Rosser
 An Investigation of Landslide Mechanisms in a Coastal Glacial Till
- XY429 EGU2011-8849
Filomena Canora, Roberta Pellicani, and Giuseppe Spilotro
 Water - soil interactions and landslides in blue marine clays of Southern Italy
- XY430 EGU2011-10968
Shriwantha Buddhi Vithana, Shinya Nakamura, and Sho Kimura
 Shear Strength of Landslide Soils of Different Geological Origins
- XY431 EGU2011-11296
Irina Gvozdeva, Oleg Zerkal, and Evgeny Samarin
 Landslide Hazard Assessment in Geyser Valley
- XY432 EGU2011-12656
Kuo-Lung Wang, David Petley, and Meei-Ling Lin
 The applicability of landslide potential mapping in heavy rainfall event with mechanical approach
- XY433 EGU2011-14111
Nejan Huvaj
 Shallow landslides in unsaturated soils triggered by rainfall: A parametric study

NH3.2/GM6.3 – Mechanisms and processes of landslides in seismically- or volcanically-active environments (co-organized) – Orals

Convener: Randall W. Jibson | Co-Conveners: Vincenzo Del Gaudio, Janusz Wasowski, Chyi-Tyi Lee, Hiroshi Fukuoka

Room: 1

Chairperson: n.n.

- 10:30–10:45 EGU2011-6628
Georgia Diakogianni, Anna Fokaefs, and Gerassimos A. Papadopoulos
 Landslides in Seismically and Volcanically Active Areas of Greece and Adjacent Regions: A Review
- 10:45–11:00 EGU2011-722
Xuanmei Fan, Cees J. van Westen, Tolga Gorum, and Qiang Xu
 Spatial Distribution and Casual Factors of Landslide Dams Triggered by the 2008 Wenchuan Earthquake
- 11:00–11:15 EGU2011-3493
Engielle Mae Paguican, Alfredo Mahar Francisco Mahar, and Benjamin van Wyk de Vries
 One Mother Two DADs: the two fault-related avalanches of Iriga, Philippines
- 11:15–11:30 EGU2011-8140
Tolga Gorum, Cees J. van Westen, Emmanuel John M. Carranza, Mark van der Meijde, Xuanmei Fan, Dai Fuchu, and Qing Xu
 The role of rupture dynamics and style of faulting on regional pattern of coseismic landslides
- 11:30–11:45 EGU2011-11165
Patrick Meunier, Taro Ushida, and Niels Hovius
 What controls the size of earthquake-triggered landslides ?
- 11:45–12:00 EGU2011-10685
Lucile Tatard and Jean-Robert Grasso
 Control of Seismic Slip on Spatial Distribution of Earthquake-Triggered Landslides

NH3.2/GM6.3 – Mechanisms and processes of landslides in seismically- or volcanically-active environments (co-organized) – Posters

Convener: Randall W. Jibson | Co-Conveners: Vincenzo Del Gaudio, Janusz Wasowski, Chyi-Tyi Lee, Hiroshi Fukuoka

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY434 EGU2011-323
Zoia Kalmetieva and Bolot Moldobekov
On principal reason of landslides occurrence in seismically active environment
- XY435 EGU2011-3885
Keizo Ugai
Mechanism of earthquake-induced landslides considered from geotechnical aspects
- XY436 EGU2011-4802
Teresa Vaz and José Luís Zêzere
Landslides induced by seismic events in Portugal mainland: identification and characterization
- XY437 EGU2011-5255
Chyi-Tyi Lee
Automatic extraction of slope parameters from DEM for seismic topographic amplification study
- XY438 EGU2011-5361
Dragos Armand Stanica and **Maria Stanica**
Near real-time electromagnetic monitoring system of the seismically-induced landslides in the Subcarpathians' area
- XY439 EGU2011-5378
Shibiao Bai, Thomas Glade, Rainer Bell, and Jian Wang
Distribution and susceptibility assessments of landslides triggered by Wenchuan earthquake using rare events logistic regression analyses
- XY440 EGU2011-5441
Qiang Xu and Xiujun Dong
Genetic types of large-scale landslides induced by The Wenchuan earthquake
- XY441 EGU2011-5463
Qiang Xu, Hanxiang Liu, Wei Zou, Xuanmei Fan, and Jianjun Chen
Large-scale shaking table test study of acceleration dynamic responses characteristics of slopes
- XY442 EGU2011-5523
Vincenzo Del Gaudio, Janusz Wasowski, and Chyi-Tyi Lee
Deciphering seismic response of landslide-prone slopes from reconnaissance microtremor measurements with a broad-band velocimeter
- XY443 EGU2011-6588
Kuo-Jen Chang, Rou-Fei Chen, Yu-Chang Chan, and Chih-Yu Kuo
Landslide mechanism, geomorphic change and surface process: evidence from earthquake-triggered Tsaoiling avalanche
- XY444 EGU2011-8182
Tolga Gorum and Cees J. van Westen
Regional distribution of landslides induced by the January 2010 Haiti earthquake
- XY445 EGU2011-13060
Jorge Yepes, Martín Rodríguez-Peces, and Rodrigo Del Potro
Morphological evidence of a large collapse on the north-western flank of Gran Canaria (Canary Islands)
- XY446 EGU2011-5656
Weile Li, Chuan Tang, and Ming Chang
Debris flows on 13 August 2010 in the Wenchuan Earthquake disaster area in Qingping town, Mianyuan River Basin, China
- XY447 EGU2011-8115
Darwin Riguer, Tolga Gorum, and Cees van Westen
Characterizing an earthquake induced landslide from two different events in the same area

NH3.3 – Rockfalls, rockslides and rock avalanches – Orals

Convener: Michael Krautblatter | Co-Conveners: Jeffrey Moore, Luuk Dorren, Federico Agliardi, Giovanni Crosta

Room: 1

Chairperson: Michael Krautblatter

- 13:30–13:45 EGU2011-13787
Christoph Prager, **Marc Andre Ostermann**, and Christian Zangerl
Time-dependent rock slope weakening processes: evidence from dated landslides in the Eastern Alps
- 13:45–14:00 EGU2011-2546
Valentin Gischig, Jeffrey R Moore, Keith F Evans, Florian Amann, and Loew Simon
Thermo-mechanical forcing of seasonal rock slope deformation at Randa (Switzerland)

- 14:00–14:15 EGU2011-1890
Clara Levy, **Denis Jongmans**, and Laurent Baillet
Analysis of the seismograms recorded on a prone-to-fall rock column (Vercors massif, French Alps)
- 14:15–14:30 EGU2011-6752
Andreas Schober, Markus Keuschnig, Ingo Hartmeyer, Lothar Schrott, and Jan-Christoph Otto
Mass movements in a high mountain environment, Kitzsteinhorn (3203 m), Hohe Tauern, Austria:
Controlling factors and geotechnical surveys.
- 14:30–14:45 EGU2011-1612
Diethard Sanders and Gernot Patzelt
Long-term accumulation rates of subaerial scree slopes: implications of numerical ages and field observations.
- 14:45–15:00 EGU2011-6134
Thierry Oppikofer, **Luzia Fischer**, Reginald L. Hermanns, Graziella Devoli, Halvor Bunkholt, Andrea Taurisano, and Olianne Eikenæs
Hazard mapping of rockfalls and rock avalanches in Norway - how to prioritise areas?
Chairperson: Jeffrey Moore
- 15:30–15:45 EGU2011-4202
Shiva P. Pudasaini and Stephen A. Miller
The Hypermobility of Huge Landslides and Avalanches
- 15:45–16:00 EGU2011-1504
Anja Dufresne
A laboratory approach to the complexities in rock/debris avalanche emplacement introduced by interaction with runout path material
- 16:00–16:15 EGU2011-3466
Anthony Thornton, Mark Woodhouse, Chris Johnson, Peter Kokelaar, and Nico Gray
Segregation induced fingering instabilities in granular avalanches
- 16:15–16:30 EGU2011-3472
Denis Mercier, Armelle Decaulne, Etienne Cossart, Thierry Feuillet, Þorsteinn Sæmundsson, and Helgi Páll Jónsson
Dating of a rock avalanche in Skagafjörður, Northern Iceland: pieces of evidence of a paraglacial origin
- 16:30–16:45 EGU2011-4925
Oliver Jancke and Frédéric Berger
Innovative real-size tests for assessing the mechanical resistance of coppice stems against rockfall
- 16:45–17:00 EGU2011-13273
James Glover, Axel Volkwein, Werner Gerber, and Matthias Denk
Design criteria for rock fall attenuating systems

NH3.3 – Rockfalls, rockslides and rock avalanches – Posters

Convener: Michael Krautblatter | Co-Conveners: Jeffrey Moore, Luuk Dorren, Federico Agliardi, Giovanni Crosta

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: M. Krautblatter, J. Moore, L. Dorren, G. Crosta, F. Agliardi

- XY448 EGU2011-1066
Stefano Devoto, Eugenio Castelli, Chiara Boccali, and Fulvio Podda
Rock fall analysis: a case study in the eastern Alps (Italy)
- XY449 EGU2011-1671
Battista Matasci, Dario Carrea, Thierry Oppikofer, Michel Jaboyedoff, Andrea Pedrazzini, and Greg M. Stock
Toward an accurate detection of Rockfall sources in Yosemite Valley
- XY450 EGU2011-2196
Sandra Melzner, Luuk Dorren, Arben Kociu, and Richard Baek
Rockfall susceptibility assessment in the "Upper Moelltal", Carinthia, Austria
- XY451 EGU2011-8517
Ludovic Ravanel and Philip Deline
Frequency and volume of rockfalls in permafrost-affected rockwalls in the Mont Blanc massif
- XY452 EGU2011-13513
Florian Haas, Tobias Heckmann, and Michael Becht
Measuring of Rockfall on Alpine Rockfaces and the Corresponding Talus Cones Using Terrestrial Laserscanning Data
- XY453 EGU2011-13091
Andreas Kellerer-Pirklbauer
Freeze-thaw cycles and frost shattering potential at alpine rockwalls in the Hohe and Niedere Tauern Ranges (Austria) between 2006 and 2010

- XY454 EGU2011-12979
Andrea Pedrazzini, Kerry Leith, Sarrasin Nicolas, Jeffrey Moore, and Michel Jaboyedoff
Analysis of predisposing factors and slope activity of rockfall prone areas based on terrestrial laser scanner and time laps photography
- XY455 EGU2011-12493
Daniel Funk and **Michael Krautblatter**
Frictional behaviour of cohesionless rock joints under frozen conditions - data analysis from laboratory experiments and their implementation in rock mechanical concepts
- XY456 EGU2011-11103
Jeffrey Moore, Jan Burjanek, Valentin Gischig, Simon Loew, and Donat Faeh
Response of the Randa rock slope instability to small regional earthquakes
- XY457 EGU2011-5156
Ming-Lang Lin, Chia-Ming Lo, Tsun-Kai Lien, and Wei-Che Lu
Fragmentation and Deposition of Rock Mass with Joint Strength during Rockfall
- XY458 EGU2011-5221
Tamzin Linnell, **Marc-Andre Brideau**, and Jonathan Procter
Contrasting the morphology and internal structure of hummocky mounds in two landslide deposits, North Island, New Zealand.
- XY459 EGU2011-7041
Marie Charrière, Michel Jaboyedoff, Andrea Pedrazzini, Michele Volpi, and Corey Froese
New insights on the Frank Slide's deposit
- XY460 EGU2011-9288
Paolo Frattini, Crosta Giovanni Battista, and Agliardi Federico
Effect of DEM resolution and roughness in rockfall model restitution and friction coefficients
- XY461 EGU2011-3451
Lydie Staron, Pierre-Yves Lagrée, and Stéphane Popinet
Continuum modelling of the granular column collapse experiment
- XY462 EGU2011-8479
Thomas Weinhart, Anthony R Thornton, Onno Bokhove, and Stefan Luding
Closure laws for dry granular avalanche flows
- XY463 EGU2011-9011
Sebastian Pisi, **Michael Krautblatter**, Richard Dikau, and Christoph Dittrich
A quantitative and qualitative study on risk perception of multiple rockfall hazards in the Zugspitze Mountains (German/Austrian Alps)
- XY464 EGU2011-8200
Katharina Kern, Gernot Seier, Gerhard K. Lieb, Ulrich Strasser, Andreas Kellerer-Pirklbauer, and Florian Hanzer
Modelling mass movements to estimate the risk potential for Alpine tourists and infrastructure in the Grossglockner-Pasterze glacier area (Hohe Tauern, Austria)

NH4.4/SM5.6 – Earthquake Risk and Loss Estimates: New Directions (co-organized) – Orals

Convener: Max Wyss | Co-Conveners: Jochen Zschau

Room: 11

Chairperson: Max Wyss, Jochen Zschau

- 15:30–15:45 EGU2011-1816
Friedemann Wenzel and Vladimir Sokolov
Correlated Ground Motion - Influence on Loss Estimates
- 15:45–16:00 EGU2011-2556
Massimiliano Pittore, Marc Wieland, Dino Bindi, Stefano Parolai, and Jochen Zschau
Towards a rapid, integrated, multi-scale assessment of earthquake risk: a case study in Central Asia
- 16:00–16:15 EGU2011-9938
Max Wyss, Goran Trendafiloski, Mikheil Elashvili, Nato Jorjashvili, and Zurab Javakhishvili
The mapping of teleseismic epicenter errors into errors in estimating casualties in real time due to earthquakes worldwide.
- 16:15–16:30 EGU2011-13204
Mustafa Erdik, **Mine Betül Demircioglu**, and Karin Sesetyan
Assessment of Seismic Risk in Turkey
- 16:30–16:45 EGU2011-1971
Matteo Picozzi
Tailor-made earthquake early warning for buildings
- 16:45–17:00 EGU2011-12123
Joachim Fischer, Ingmar Eveslage, Jens-Peter Redlich, Anatolij Zubow, Markus Scheidgen, Jochen Zschau, and Claus Milkereit
Extended SOSEWIN-Services

NH4.4/SM5.6 – Earthquake Risk and Loss Estimates: New Directions (co-organized) – Posters

Convener: Max Wyss | Co-Conveners: Jochen Zschau

Halls XY | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Max Wyss, Jochen Zschau

- XY465 EGU2011-2039
Gulum Tanircan, **Nino Tsereteli**, Tamaz Chelidze, Otar Varazanashvili, Emili Tsereteli, and Alexander Gvencadze
Seismic Hazard Assessment for Georgia
- XY466 EGU2011-2738
Arif Akhundov, Tahir Mammadli, Etibar Garaveliyev, Qurban Yethirmishli, and Gulum Tanircan
Seismic Hazard Assessment for Azerbaijan
- XY467 EGU2011-3424
Dimcho Solakov, Stela Simeonova, Petya Trifonova, and Irena Alexandrova
Forecasting scenarios validation - case study for the city of Plovdiv and Ruse
- XY468 EGU2011-3505
Licia Faenza and Alberto Michelini
Regression Analysis of MCS Intensity and ground motion spectral accelerations, SA, in Italy
- XY469 EGU2011-4934
James Daniell and Gary Gibson
A review of all Australian Damaging Earthquakes and their contribution to knowledge of earthquake risk in Australia.
- XY470 EGU2011-4948
James Daniell, Bijan Khazai, Aidan Slingsby, and Friedemann Wenzel
A Country-by-Country Building Inventory and a Building Vulnerability Index for use in different Natural Disaster applications
- XY471 EGU2011-6816
Gheorghe Marmureanu, Carmen Ortanza Cioflan, and Alexandru Marmureanu
Local seismic hazard map (microzonation) of Bucharest by using probabilistic and deterministic approaches, linear and nonlinear methods
- XY472 EGU2011-8255
Assaf Klar and Oren Lavan
Liquefaction risk analysis using disaggregation
- XY473 EGU2011-12116
Sara Biolchi, Luca Zini, Paolo Leita, and Petra Malisan
The Geo-morphotypes Map of the Friuli Venezia Giulia Region (NE Italy): a tool for the evaluation of the local seismic amplification
- XY474 EGU2011-12514
Marcello de Michele, Alain Giros, Hervé Yésou, Didier Treinsoutrot, Hélène de Boissezon, Daniel Raucoules, and Claudie Carnec
Kal-Haïti: a database for research, risk management and sustainable reconstruction in Haiti.

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

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

Room: 18

Chairperson: S. Zerbini and D. Mencin

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

16:45–17:00 EGU2011-11427

C.k. Shum and Chungyen Kuo

WEGENER Project After Three Decades: Regional and Global Sea-Level Rise

NH9.3/EOS10 – Natural Hazards Education, Communications and Science-Policy-Practice Interface (co-organized) – Orals

Convener: Bruce D. Malamud | Co-Conveners: Eric Lindquist, Maria-Carmen Llasat, Giorgio Boni, Juergen Weichselgartner

Room: 2

Chairperson: Bruce Malamud, Eric Lindquist, Maria-Carmen Llasat, Giorgio Boni, Juergen Weichselgartner

15:30–17:00 **Poster 2-3' Summaries and Discussion****NH9.3/EOS10 – Natural Hazards Education, Communications and Science-Policy-Practice Interface (co-organized) – Posters**

Convener: Bruce D. Malamud | Co-Conveners: Eric Lindquist, Maria-Carmen Llasat, Giorgio Boni, Juergen Weichselgartner

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

XY475 EGU2011-3401

Benjamin van Wyk de Vries, William Rose, Eliza Calder, and Alessandro Tibaldi

INVOGE: International Geological Masters in Volcanology and Geotechniques: how we communicate to students, researchers and end-users in geosciences

XY476 EGU2011-4250

Ángeles Llinares, José Manuel Marrero, Alicia García, and Ramón Ortiz

Volcanic risk increasing due to the inaction of public institutions. The case of Tenerife, Canary Island. Spain.

XY477 EGU2011-4447

Pauline Texier, **Franck Lavigne**, Anais Perrillat-Collomb, Floriane Chouraqui, Jake Rom Cayad, and Jean-Christophe Gaillard

Participatory Research as a Research-Practice Interface to Analyze Vulnerability and to Reduce Disaster Risk on Fogo Volcano, Cape Verde

XY478 EGU2011-12101

Susanne Sargeant, David Kerridge, Peter Crichton, and Dominic Crowley

Developing mechanisms to enhance relationships between earthquake scientists and the NGO community for disaster risk reduction

XY479 EGU2011-13267

Marco Giardino and John J. Clague

The geoNatHaz project: enhancing international Earth Science competence in Natural Hazards research by integration of traditional field-based activities a Geomatics techniques

XY480 EGU2011-4828

Karoly Futaki

Methodological background of the stakeholder involvement in the frame of Danube FLOODRISK project

XY481 EGU2011-8057

Steffen Link, Johann Stötter, Frederike Lanz, Rudolf Pollinger, Willigis Gallmetzer, and Pierepaolo Macconi

Internal communication: Challenges and opportunities in the application of Hazard Zone Planning

XY482 EGU2011-9924

Stefan Kienberger, Peter Zeil, and Diana Maria Contreras Mojica

Science-Policy-Practice Interface from a geospatial perspective - Examples from European and African case studies

XY483 EGU2011-6025

Dominik E. Reusser, Costa Luis, Förster Hannah, Lissner Tabea, Pape Christian, Pradhan Prajal, Sterzel Till, Weiß Tobias, Wrobel Markus, and Kropp Jürgen

Communication of climate change induced natural hazards with a web platform

XY484 EGU2011-10978

Maria-Carmen Llasat, Montserrat Llasat-Botija, and Jaume Guamis

Risk perception and communication in Catalonia

XY485 EGU2011-13902

Davide Miozzo, Marco Altamura, Luca Ferraris, Lucia Musso, and Franco Siccardi

Legal aspects of the communication of risk predictions

XY486 EGU2011-11967

Pierrick Nicolet, Frédéric Berger, Michel Jaboyedoff, Christian Gerber, and David Giorgis

Representation problems of danger and "risk"

- XY487 EGU2011-9656
Satoko Oki, Kazuki Koketsu, Eiji Kuwabara, and Jiro Tomari
Scientists' Communication on Disaster Sciences
- XY488 EGU2011-4896
Simone Frigerio, Thomas Glade, Jean-Philippe Malet, and Cees van Westen
Geo Web Services and risk communication - the "Mountain Risks"
- XY489 EGU2011-9960
Micol Todesco, **Augusto Neri**, Tomaso Esposti Ongaro, Elisabetta Tola, and Giulia Rocco
È VIVO! In 3D (It's alive! In 3D - Virtual eruptions at Vesuvius in 3D): A short video to disseminate results from numerical simulation of pyroclastic flows
- XY490 EGU2011-9171
Aidan Slingsby, James Daniell, Jason Dykes, and Jo Wood
Sharing insights on the impact of natural disasters using Twitter
- XY491 EGU2011-12055
Catherine O'Riordan, Emilie Lorditch, Chris Nicolini, and Devin Powell
Communicating Natural Hazard Risks to the Public through TV and Internet News Programs
- XY492 EGU2011-13057
Lis Mortensen, Mads-Peter J Dahl, Heini Eysturoy, and Bjarni Petersen
Construction of geohazard inventory for public roads on the Faroe Islands
- XY493 EGU2011-13909
Alessandro Leto
Access to Water: a goal to foster Sustainable Development and to prevent water related natural disaster
- XY494 EGU2011-2694
Emma Bee and Catherine Pennington
Vulnerability to Geological Hazards in the UK: A Spatial Data Perspective

NH9.11 – Natural hazard resilient cities: methods and tools to qualify and quantify – Orals

Convener: damien serre | Co-Conveners: Bruno Barroca

Room: 10

Chairperson: Damien Serre - Bruno Barroca

- 15:30–15:45 EGU2011-41
Manuela Escameia and Andrew Tagg
Achieving flood resilience through improvements at building fabric/layout level
- 15:45–16:00 EGU2011-3622
Adriana Galderisi and Floriana Federica Ferrara
Enhancing urban resilience in face of complex hazardous events: from a conceptual framework toward operational tools
- 16:00–16:15 EGU2011-10421
Damienne Provitolo
« Resiliency vulnerability » notion : looking in another direction to study vulnerability and resilience of systems in face of risk or disaster.
- 16:15–16:30 EGU2011-3696
Kristien Schelfaut, Jaroslav Mysiak, Trui Paula Uyttendaele, and Jan Cools
Measuring & Enhancing Flood Resilience
- 16:30–16:45 EGU2011-6770
Massimo Lanfranco and Elena Rapisardi
Urban Resilience to severe storms. An Italian case-history of local community response to natural disasters.
- 16:45–17:00 EGU2011-12592
Julian Eleutério, Cyriaque Hattemer, and Anne Rozan
A method to evaluate floods damage and consequences to network infrastructure and associated uncertainty

NH9.11 – Natural hazard resilient cities: methods and tools to qualify and quantify – Posters

Convener: damien serre | Co-Conveners: Bruno Barroca

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Damien Serre - Bruno Barroca

- XY495 EGU2011-469
Jean-Paul Arnaud, **Marie Toubin**, and Damien Serre
Resilis: a research project to improve urban resilience

- XY496 EGU2011-990
Heinrich Webler, Peter Geiss, and Cornelia Redeker
Flood Resilient Redevelopment of the Zollhafen Mainz
- XY497 EGU2011-1005
Laurence Ringenbach, Damien Serre, and James R. Amdal
Rails to Recovery in a post-Katrina Environment
- XY498 EGU2011-7045
Oznur Karaca and Guzin Akin
Soil Information System of Canakkale City Centre (NW Turkey)
- XY499 EGU2011-5443
Marzenna Sztobryn, Beata Kowalska, and Ida Stanis?awczyk
Early warning system - sea level along the Baltic coast of Poland
- XY500 EGU2011-12648
Gabriela Boca, Alexandru Ozunu, and Serban Nicolae Vlad
A resilience/vulnerability dialog on NaTech disaster risks
- XY501 EGU2011-12978
Bruno Barroca and Damien Serre
Urban design contribution in reducing hydrological risks: The French experience
- XY502 EGU2011-7528
Bijan Khazai, Fouad Bendimerad, and Friedemann Wenzel
Resilience Indicators for Mainstreaming Disaster Risk Reduction in the City of Mumbai
- XY503 EGU2011-12389
youssef diab, denis morand, and **damien serre**
A global approach for urban buried sewers management by considering risk assessment
- XY504 EGU2011-741
Marie Toubin, Damien Serre, Youssef Diab, and Richard Laganier
Improve urban resilience by a shared diagnostic integrating technical evaluation and governance
- XY505 EGU2011-732
serge Lhomme, damien Serre, youssef Diab, and richard Laganier
Network resiliency assessment integrating network interdependencies
- XY506 EGU2011-2903
Mustafa De?irmenci, Levent Tezcan, Mehmet Ekmekci, Eyup Atmaca, Ahnet Alt?n, Otgonbayar Namkhai, Mustafa Yazici, and Ender Batukan
Planning of water supply infrastructure on the basis of sustainable water resources management in Kayseri Metropolitan City, Central Turkey: A plan for the year 2050
- XY507 EGU2011-3659
Matthias Kufeld, Nils P. Huber, and Holger Schüttrumpf
A Method for quantitative flood risk assessment in urban areas of developing countries
- XY508 EGU2011-4849
Marco Barroca-Paccard and Bruno Barroca
Importance of biodiversity for urban resilience
- XY509 EGU2011-6564
Cheng-Yu Ku
Study on the impact of regional rainfall-induced landslide hazard due to global environmental change
- XY510 EGU2011-11492
Bruno Barroca and Damien Serre
Identify indicators for assessing urban resilience to flooding
- XY511 EGU2011-12248
Bruno Barroca, Serge Lhomme, Frank Chopin, and Damien Serre
Resilience assessment of urban areas protected by dikes
- XY512 EGU2011-2613
Nicholas Walliman and Raymond Ogden
Development of a model to estimate individual building vulnerability to floods

NH10.4/BG2.18/GM4.4/SSS1.12 – Mitigating against natural hazards: Biological contribution to sustainable soil bioengineering in a changing world (co-organized) – Orals

Convener: Hans Peter Rauch | Co-Conveners: Freddy Rey, Frank Graf, Federico Preti

Room: 2

Chairperson: Frank Graf, Freddy Rey

- 10:30–10:45 EGU2011-1874
Amandine Erktan and Freddy Rey
Linking the morphology of Salix tillers barriers to sediment trapping efficiency in marly gully floors

- 10:45–11:00 EGU2011-4863
Joshua Wanyama, Herremans Kristoff, Moses Isabirye, Fredrick Kahimba, Willem Maetens, Didas Kimaro, Jean Poesen, and Seppe Deckers
 Evaluation of Runoff and Sediment Trapping Effectiveness of Vegetative Filter Strips in the Riparian Zone of Lake Victoria
- 11:00–11:15 EGU2011-7391
Gerda Holzapfel and Philipp Weihs
 Influence of soil bioengineering measures on river systems - Shading potential of *Salix purpurea*
- 11:15–11:30 EGU2011-9654
Kathrin Beglinger, Thomas Sieber, and Frank Graf
 Effects of endophytic and mycorrhizal fungi associated with *Salix appendiculata* on soil aggregate stability
- 11:30–11:45 EGU2011-2612
Pierre Raymond
 Soil Bioengineering for Control of Soil Erosion in a Reconstructed Waterway on an Alberta Oil Sands Dump in Canada
- 11:45–12:00 EGU2011-4817
Massimiliano Schwarz and Denis Cohen
 Influence of root distribution and compressibility of rooted soil on the triggering mechanism of shallow landslides

NH10.4/BG2.18/GM4.4/SSS1.12 – Mitigating against natural hazards: Biological contribution to sustainable soil bioengineering in a changing world (co-organized) – Posters

Convener: Hans Peter Rauch | Co-Conveners: Freddy Rey, Frank Graf, Federico Preti

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Federico Preti, Hans Peter Rauch

- XY513 EGU2011-2110
Christian Rickli and Frank Graf
 Durability of timber check dams used for toe protection in view of sustainable slope stabilisation by soil bioengineering
- XY514 EGU2011-12041
 Katrin Burri, Christof Gromke, and **Frank Graf**
 Aeolian sediment transport and spatial patterns of sand deposition in vegetation canopies: Observations from wind tunnel experiments using coloured sand
- XY515 EGU2011-11381
 Madhu Sudan Acharya and **Walter Lammeranner**
 How to select the appropriate techniques and suitable plant species for soil bioengineering works? - An application example from Nepal
- XY516 EGU2011-10576
Alexander Bast, Holger Gärtner, Frank Graf, Peter Lüscher, Albert Böll, and Wolfgang Wilcke
 Towards the development and evaluation of sustainable bioengineering measures on an erosion-prone slope
- XY517 EGU2011-10338
Filippo Giadrossich, Massimiliano Schwarz, Federico Preti, and Dani Or
 Mechanical interactions between neighbouring roots
- XY518 EGU2011-10318
Michael Obriejetan, Hans Peter Rauch, and Jürgen Suda
 Design and development of technical-biological erosion protection systems
- XY519 EGU2011-9937
Gerhard Markart, Hans Peter Rauch, Florin Florineth, Bernhard Kohl, and Nils Tilch
 Analysis of the vegetation cover and the increasing soil erosion in the high montane and the subalpine altitudinal zone of Western Austria
- XY520 EGU2011-6524
Ji-yi Tsai and Chien-Yen Chen
 Utilizing pig urine and limestone application in microbial induced carbonate precipitation as a soil reinforcement technology
- XY521 EGU2011-11268
Walter Lammeranner, Michael Obriejetan, and Florin Florineth
 The impact of dense willow stands (*Salix purpurea* L.) on the hydrology of heavily compacted soils
- XY522 EGU2011-2610
Pierre Raymond
 Vegetated Riprap Installation Techniques for Streambank Protection, Fish and Wildlife Habitat Creation

XY523 EGU2011-5424

Freddy Rey and Sophie Labonne

Resistance and efficiency of bioengineering works made of willow species for sedimentation and erosion control in eroded marly gullies (Francon catchment, Draix, France)

NP4.1 – Time Series Analysis in the Geosciences - Concepts, Methods & Applications (co-listed) – Orals

Convener: Reik Donner | Co-Conveners: Susana Barbosa

Room: 13

Chairperson: Reik Donner, Susana Barbosa

08:30–08:45 EGU2011-291

Diego Rybski, Anne Holsten, and Jürgen P. Kropp

Analyzing the phase statistics of phenological records: fluctuations and correlations with temperature

08:45–09:00 EGU2011-5747

Sylvie Parey

Seasonality and climate change in temperature series of Europe and the United States

09:00–09:15 EGU2011-6382

Sebastian Bathiany, Martin Claussen, and Klaus Fraedrich

On the detectability of Early Warning Signals in a global atmosphere-vegetation model

09:15–09:30 EGU2011-1472

Valerie N. Livina and Timothy Lenton

Tipping points toolbox: novel techniques of time series analysis for studying transitions and bifurcations in climatic records

09:30–09:45 EGU2011-4344

Kira Rehfeld, Norbert Marwan, Jobst Heitzig, and Jürgen Kurths

Kernel-based correlation estimation for irregularly sampled time series

09:45–10:00 EGU2011-13320

George Caminha-Maciel and Marcia Ernesto

Spectral analysis of nonuniformly sampled data series: smoothing and improving resolution of spectral estimates by combining information from multiple series

COFFEE BREAK

Chairperson: Reik Donner, Susana Barbosa

10:30–10:45 EGU2011-6440

Andreas Groth and Michael Ghil

Robust identification of phase synchronization clusters via multivariate singular spectrum analysis

10:45–11:00 EGU2011-4367

Nishant Malik, Yong Zou, Norbert Marwan, and Jürgen Kurths

Employing nonlinear similarities to identify distinct dynamical regimes in short palaeo records

11:00–11:15 EGU2011-8408

Jobst Heitzig and Jakob Runge

Entropy train diagrams for information-based measures of statistical association

11:15–11:30 EGU2011-8056

Jin Chen, Marion Jegen-Kulcsar, Max Moorkamp, and Bjoern Heincke

Using Empirical Mode Decomposition (EMD) for the processing of marine MT data

11:30–11:45 EGU2011-4493

Mahmoud El Araby, Noelle Odling, and Roger Clark

Borehole water level response to barometric pressure fluctuations as an indicator of semi confined aquifer vulnerability: application to the East Yorkshire Chalk aquifer, UK

11:45–12:00 EGU2011-10331

Sylvain Mangiarotti, Laurent Drapeau, Raphaël Coudret, and Lionel Jarlan

Low-dimensional modeling of the dynamics of rainfed wheat in semi-arid region of Settat (Morocco), from NDVI satellite data

NP4.1 – Time Series Analysis in the Geosciences - Concepts, Methods & Applications (co-listed) – Posters

Convener: Reik Donner | Co-Conveners: Susana Barbosa

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Norbert Marwan

- XY543 EGU2011-13461
Sarah Hallerberg, Alexander Ruzmaikin, and Joan Feynman
Can high-energy proton events in solar wind be predicted via classification of precursory structures?
- XY544 EGU2011-5242
Alejandro Ramírez-Rojas and Elsa Leticia Flores-Marquez
Non-extensivity analysis of seismicity occurred within four subduction regions in Mexico.
- XY545 EGU2011-5779
Nasim Karamzadeh, Peter Voss, Gholam Javan Doloei, and Alireza Moghaddamjoo
Local Earthquake Onset Detection Based on Short Time Fourier Transform
- XY546 EGU2011-8942
Octavian G. Duluu and Nelida Florea
19 years of continuous observation of Radon and Thoron emissions: a Time Series Analysis
- XY547 EGU2011-13643
Susana Barbosa, Hovav Zafir, Gideon Steinitz, Uri Malik, and Oksana Piatibratova
Scale-based analysis of simultaneous ^{222}Rn rays and ^{222}Rn particles time series from subsurface radon
- XY548 EGU2011-13660
Manuel Scotto, Susana Barbosa, and Andres Alonso
Clustering analysis of air temperature time series over Europe: quantile regression approach
- XY549 EGU2011-1985
António R. Tomé and Pedro M. A. Miranda
Piecewise continuous trends of time series
- XY550 EGU2011-14013
Reik Donner and Marieke Lewanzik
Nonparametric quantile regression for assessing the nonstationarity of extreme values in geoscientific time series
- XY551 EGU2011-13911
Reik Donner and Maria Koch
Linear and nonlinear spatio-temporal dependences of precipitation and river runoffs in a catchment
- XY552 EGU2011-8392
Carlos Pires
Estimation of Mutual Information from Maximum Entropy distributions and its application to geophysical time series
- XY553 EGU2011-11552
Jakob Runge, Jobst Heitzig, and Jürgen Kurths
Information-theoretic methods to find possible causalities and relevant time lags between multiple time series
- XY554 EGU2011-4516
Robin Crockett
Innate Cycle Correlation.
- XY555 EGU2011-10681
Elena Szolgayova
Modelling and forecasting daily river discharge considering autoregressive heteroscedasticity
- XY556 EGU2011-2149
Xavier Lana, August Burgueño, Dolores Martinez, and Carina Serra
NONLINEAR ANALYSIS OF THE NORTH ATLANTIC (NAO), ATLANTIC MULTIDECADAL (AMO) AND WESTERN MEDITERRANEAN (WeMO) OSCILLATIONS FOR THE COMMON PERIOD 1856-2009
- XY557 EGU2011-5014
Kreso Pandzic and Tanja Likso
Comparing the Palmer Drought Index and the Standardized Precipitation Index for Pannonian Part of Croatia
- XY558 EGU2011-10210
Tamara Shulgina, Elena Genina, and Evgeny Gordov
Selection of a dataset to characterize climate dynamics in Siberia
- XY559 EGU2011-2274
Michael Friedel and Keith Long
A data-driven economic filter for mineral resource assessments

Tuesday, 05 April

NH1.4/AS4.4 – Lightning: physics, detection and atmospheric effects (co-organized) – Orals

Convener: Yoav Yair | Co-Conveners: Serge Soula, Colin Price, Hans D. Betz, Yukihiro Takahashi

Room: 10

Chairperson: Hans-Dieter Betz and Yoav Yair

- 08:30–08:45 EGU2011-1939
Jochen Grandell, Marcel Dobber, and Rolf Stuhlmann
 Lightning monitoring from a geostationary orbit: MTG Lightning Imager concept and processing challenges
- 08:45–09:00 EGU2011-8954
Chonglin Liu and Stan Heckman
 Using Total Lightning Data in Severe Storm Prediction: Global Case Study Analysis from North America, Brazil and Australia
- 09:00–09:15 EGU2011-9170
Colin Price, Keren Mezuman, and Eli Galanti
 How many thunderstorms are active at any moment?
- 09:15–09:30 EGU2011-1734
Themis Chronis, Liliana Velea, Gerasimos Armenis, Georgios Pothriadis, and Antonios Fiamegos
 First observations from the Greek HNMS lightning monitoring network
- 09:30–09:45 EGU2011-12953
Georg Mayr and Ingo Bertram
 Lightning in the eastern Alps: Diurnal, seasonal and weather type dependence
- 09:45–10:00 EGU2011-9175
 Barry Lynn, Yoav Yair, **Colin Price**, and Guy Kelman
 A Dynamic Approach to Lightning Prediction for Convection Resolving Mesoscale Models

COFFEE BREAK

Chairperson: Colin Price and Yukihiro Takahashi

- 10:30–10:45 EGU2011-1443
 Torsten Neubert, **Olivier Chanrion** and the EuroSprite Team
 The Electric Potential of a Giant Jet Determined From a Simultaneous Sprite
- 10:45–11:00 EGU2011-6407
Serge Soula, Oscar van der Velde, Joan Montanya, Patrice Huet, and Christelle Barthe
 Gigantic Jets produced by an isolated tropical thunderstorm near Réunion Island
- 11:00–11:15 EGU2011-4381
Yasuhide Hobara, Masahiko Iwamoto, Kenji Ohta, Takuya Ohtsuyama, and Masashi Hayakawa
 TLE producing ionospheric disturbances: Observation and numerical modeling
- 11:15–11:30 EGU2011-6191
Nikolai Ostgaard, Ragnhild Hansen, Thomas Gjesteland, Brant Carlson, and Andrew Collier
 Occurrence frequency and fluence of TGFs
- 11:30–11:45 EGU2011-3609
Fabio Fuschino, Martino Marisaldi, Claudio Labanti, Marco Tavani, Andrea Argan, Alessio Trois, Guido Barbiellini, Francesco Longo, and Ettore Del Monte
 Correlation of AGILE TGFs and global lightning activity across the equatorial belt
- 11:45–12:00 EGU2011-12203
Brant Carlson, Morris Cohen, Ryan Said, Michael Briggs, Valerie Connaughton, Gerald Fishman, Thomas Gjesteland, and Nikolai Østgaard
 TGF electron beam modeling and constraints on TGF production

NH1.4/AS4.4 – Lightning: physics, detection and atmospheric effects (co-organized) – Posters

Convener: Yoav Yair | Co-Conveners: Serge Soula, Colin Price, Hans D. Betz, Yukihiro Takahashi

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Serge Soula and Yoav Yair

- XY463 EGU2011-201
Savka Petrova, Rumjana Mitzeva, and Boryana Markova
Relationship between flash density and rainfall over Bulgaria and Black sea
- XY464 EGU2011-13793
Pavlo Kochkin, Vung Nguyen, and Alexander van Deursen
X-ray bursts observation along and perpendicularly to the streamer path
- XY465 EGU2011-13549
Yukihiro Takahashi, Mitsuteru Sato, Tetsuya Fukuhara, Makoto Watanabe, Yoav Yair, Karen Aplin, and Georg Fischer
Lightning and thundercloud observation in Jupiter using spacecraft and ground-based telescope
- XY466 EGU2011-712
Aglika Savtchenko, Serge Soula, Oscar van der Velde, Rumjana Mitzeva, and Elisaveta Peneva
Lightning Activity of a Sprite Producing Storm over South East France
- XY467 EGU2011-2131
Maja Telišman Prtenjak, Karmen Babi?, Petra Mikuš, and Nataša Strelec Mahovi?
The summer convective activity above Croatia
- XY468 EGU2011-11857
Sigalit Shalev, Hadas Saaroni, Yoav Yair, **Baruch Ziv**, Zippy Erlich, Reuven Aviv, Alexander Agrachov, and Colin Price
Lightning Characteristics in Israel and the Eastern Mediterranean
- XY469 EGU2011-3455
Siri Merete Vaktedal, Nikolai Østgaard, Thomas Gjesteland, Ragnhild Schrøder Hansen, Andrew Collier, and Brant Carlson
TGF dependence on magnetic latitude and solar zenith angle
- XY470 EGU2011-5260
Shu Chun Chang, Sung-Ming Huang, Cheng-Ling Kuo, Jung-Kuang Chou, Li-Jou Lee, Yeng-Jung Wu, Alfred B. Chen, Han-Tzong Su, Rue-Ron Hsu, Lou-Chuang Lee and the NCKU-ISUAL Team
A possible lightning-gigantic jet interaction and mass of elves associated with negative cloud-to-ground lightning occurred over a very active thunderstorm
- XY471 EGU2011-9902
Thomas Farges, Elisabeth Blanc, and Bjørn Gitle Hauge
Infrasound and wideband electric field measurements during Hessdalen Science camp 2010
- XY472 EGU2011-5261
Jung Kuang Chou, Cheng-Ling Kuo, Shu-Chun Chang, Li-Jou Lee, Sung-Ming Huang, Yen-Jung Wu, Alfred B. Chen, Han-Tzong Su, Rue-Ron Hsu, Lou-Chuang Lee and the NCKU ISUAL Team
Radiative emissions of the blue starters, blue jets, and gigantic jets
- XY473 EGU2011-9017
Ullrich Finke
Simulating the optical characteristics of lightning as observed from above the cloud
- XY474 EGU2011-6556
Veronika Barta, József Bór, and Gabriella Sători
Classification of sprites observed in Central Europe between 2007 and 2009
- XY475 EGU2011-5328
Daiki Tsurushima, Kiyotaka Sakaida, Yukihiro Takahashi, and Noriyasu Honma
Cloud to Ground Lightning distribution over Tokyo metropolitan area observed by Lightning Location System (LLS)
- XY476 EGU2011-6214
David Pisa, Ondrej Santolik, and Michel Parrot
Connection of lightning-related HF signatures measured by the DEMETER satellite with localized field-aligned currents
- XY477 EGU2011-8443
Andrew Collier, **Thomas Gjesteland**, and Nikolai Østgaard
Terrestrial Gamma-Ray Flash Intensity Distribution
- XY478 EGU2011-2829
Yoav Yair, Moshe Ben-Yona, Na'ama Reicher, Keren Mezuman, Avy Lousky, and Colin Price
The spatial and temporal relations between sprites and meteors during the 2009 Geminid shower
- XY479 EGU2011-3838
Thomas Marshall, Maribeth Stolzenburg, Sumedhe Karunarathne, and Hans-Dieter Betz
Initial leader extension of lightning flashes
- XY480 EGU2011-3848
Maribeth Stolzenburg, Thomas Marshall, Lauren Vickers, Sumedhe Karunarathne, Tom Warner, Richard Orville, Hans Betz, and Robert Gebauer
Time Correlated High-Speed Video and Multi-frequency Electromagnetic Observations of Cloud-to-Ground Lightning

- XY481 EGU2011-13262
Bjørn Gitle Hauge
Optical spectroscopy and radar analysis of transient luminous phenomena in the low atmosphere over Hessdalen valley NORWAY
- XY482 EGU2011-6236
Ondrej Santolik, David Pisa, and Michel Parrot
Field aligned currents triggered in the mid-latitude ionosphere by very intense lightning discharges
- XY483 EGU2011-11778
Enrico Arnone, Anne K. Smith, Antti Kero, and Bianca M. Dinelli
Climate-chemistry model sensitivity to sprite-induced chemical perturbations
- XY484 EGU2011-9137
Erling Strand
The Hessdalen Phenomena
- XY485 EGU2011-3641
Martino Marisaldi, Fabio Fuschino, Claudio Labanti, Marco Tavani, Andrea Argan, Alessio Trois, Guido Barbiellini, Francesco Longo, and Ettore Del Monte
AGILE Observations of Terrestrial Gamma-Ray Flashes above 20 MeV
- XY486 EGU2011-6744
Thomas Gjesteland, Nikolai Østgaard, and Andrew Collier
Constraints on the Emission Cone of Terrestrial Gamma-ray Flashes by Spectral Analysis of Geolocated Events.
- XY487 EGU2011-8740
Baoyou Zhu, Fanchao Lv, and Helin Zhou
Current characteristics of NBE as inferred from narrow bipolar pulse

HS4.1/NH1.11 – Flash floods: observations, modeling, forecasting and risk management (co-organized) – Orals

Convener: Marco Borga | Co-Conveners: Jan Szolgay, Giuseppe T. Aronica, Günter Blöschl, Eric Gaume

Room: 38

Chairperson: Marco Borga

- 13:30–13:45 EGU2011-7927
Pierre Javelle, Bruno Janet, Patrick Fourmigué, Olivier Payrastré, Jean Pansu, Philippe Lefort, Lorenzo Marchi, Guy Delrieu, Eric Gaume and the HYMEX-TTO2D Team
Results of the post-event survey conducted after the extreme flash flood occurred in the Var region (South of France) in June 2010
- 13:45–14:00 EGU2011-3458
Paul Smith, Keith Beven, Arthur Marchandise, Luca Panziera, Florian Pappenberger, Massimiliano Zappa, and Kaethi Liechti
Forecasting river levels during flash floods using Data Based Mechanistic models, online data assimilation and meteorological forecasts
- 14:00–14:15 EGU2011-9878
Jan Schwanbeck and Rolf Weingartner
A statistical model derived from a physical-based model for assisting local decision makers in potential flood situations in small, flash-flood-prone mountain catchments.
- 14:15–14:30 EGU2011-10604
James Smith, Mary Lynn Baeck, **Gabriele Villarini**, Daniel Wright, June Yeung, and Witold Krajewski
Extreme Flood Response and Spatial Extremes: Analyses of the June 2008 Flooding in Iowa
- 14:30–14:45 EGU2011-5841
Virginia Ruiz-Villanueva, Davide Zoccatelli, Lorenzo Marchi, and Eric Gaume
Hydrology and hydraulics of an extreme flash flood in South-West Germany: the 2nd June 2008 event on the Starzel river
- 14:45–15:00 EGU2011-7740
Claudia Brauer, Ryan Teuling, Aart Overeem, Ype van der Velde, Pieter Hazenberg, Piet Warmerdam, and Remko Uijlenhoet
Soil buffer limits flash flood response to extraordinary rainfall in a Dutch lowland catchment

HS4.1/NH1.11 – Flash floods: observations, modeling, forecasting and risk management (co-organized) – Posters

Convener: Marco Borga | Co-Conveners: Jan Szolgay, Giuseppe T. Aronica, Günter Blöschl, Eric Gaume

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- A239 EGU2011-2077
Elena Galiouna, Andreas Efstratiadis, Nikos Mamassis, and Kostas Aristeidou
Investigation of extreme flows in Cyprus: empirical formulas and regionalization approaches for peak flow estimation
- A240 EGU2011-4293
Giuseppe T. Aronica, Paolo Tarolli, Daniele Penna, and Marco Borga
Analysis of shallow landsliding triggered by extreme precipitation: the October 1, 2009 event in Giampileri (Sicily)
- A241 EGU2011-4384
Noriyuki Kawano
Flood disaster monitoring in the north-eastern Australia with ALOS/PALSAR observation
- A242 EGU2011-5082
Lukas Brodsky, Radka Kodesova, Katerina Spazierova, Jirka Simunek, and Miroslav Sejna
FLOREO - a system for flash flood monitoring and forecasting in the Czech Republic
- A243 EGU2011-5745
Jean-Philippe Naulin, Eric Gaume, and Olivier Payrastre
Distributed hydrological now-casting for the management of the road network in the Gard Department (France)
- A244 EGU2011-5817
Ioannis Daliakopoulos and **Ioannis Tsanis**
Uncertainty in precipitation field estimations from radar and raingauge measurements
- A245 EGU2011-6761
Dimitri Defrance, Pierre Javelle, Patrick Arnaud, Vazken Andreassian, Emmanuel Moreau, and Patrice Meriaux
Flash flood warning methods: how to evaluate them? An application in the French Southern Alps using the AIGA warning method and different rainfall input data.
- A246 EGU2011-6924
Anja Horvat, Andrej Vidmar, Mitja Brilly, and Maja Koprivšek
Retention Area Consideration At Hydrological Modelling
- A247 EGU2011-13049
Enrique Ortiz and Felix Francés
Flash flood risk assessment following the European Water Framework Directive. The case of Marina Alta and Marina Baja (Alicante, Spain).
- A248 EGU2011-10642
Juraj Parajka, **Silvia Kohnová**, Ralf Merz, Ján Szolgay, Günter Blöschl, and Kamila Hlavčová
Seasonal characteristics of precipitation and runoff in Slovakia and Austria
- A249 EGU2011-10700
Davide Zoccatelli, Francesco Marra, and Francesco Zanon
Impact of storm motion and its interaction with the drainage basin properties on selected extreme flash floods in the Mediterranean area
- A250 EGU2011-10722
Ladislav Gaal, Guenter Blöschl, **Jan Szolgay**, Beata Karabova, Peter Valent, and Juraj Parajka
Regional analysis of peak-volume relationships of floods in Austria - time scales and correlations
- A251 EGU2011-10727
Francesco Marra, Francesco Zanon, Daniele Penna, Nicola Mantese, Davide Zoccatelli, Marco Cavalli, and Lorenzo Marchi
Hydrometeorological and hydrological analysis for the Nov 1, 2010 flood event in North-eastern Italy
- A252 EGU2011-11232
Nicola Berni, Claudia Pandolfo, Marco Stelluti, and Luca Brocca
Operational flash-flood forecasting system for the Upper-Medium Tiber River (central Italy)
- A253 EGU2011-12200
Athanasios Loukas, Giuseppe Aronica, Giuseppina Brigandì, Lampros Vasiliades, and George Papaioannou
Probabilistic forecasting of antecedent soil moisture conditions as flash flood precursor variables
- A254 EGU2011-12234
Paolo Tarolli, Efthymios I. Nikolopoulos, Emmanouil Anagnostou, Enrique R. Vivoni, and Anastasios Papadopoulos
The effect of high resolution topography information on complex terrain flash-flood response modeling
- A255 EGU2011-12451
Efthymios Nikolopoulos, Marco Borga, Emmanouil Anagnostou, Enrique Vivoni, and Anastasios Papadopoulos
Identifying essential space-time information requirements for flood modelling of a mountainous mid-size basin
- A256 EGU2011-13066
Nathalie Morey, Giuseppe Tito Aronica, Gabriele Leoni, and Claudio Puglisi
Post-event debris flow volume measurement using GIS techniques and LIDAR data

- A257 EGU2011-5
ESPOSITO Christophe, CHAVE Sylvain, BALLAIS Jean-Louis, and DELORME Virginie
 Hydrogeomorphological mapping and comparison with the spatial extent of exceptional floods in the Mediterranean area: Flash flood in Aude (1999), Gard (2002) and Var (2010) Department (France)
- A258 EGU2011-5889
 Francesco Marra and **Virginia Ruiz-Villanueva**
 Radar rainfall estimation for flash floods and debris flows analysis: application of the mountain reference technique at C-band frequency

HS2.11/NH1.14 – Hydrological extremes: from droughts to floods (co-organized) – Orals

Convener: Alberto Viglione | Co-Conveners: Jan Szolgay, Lena M. Tallaksen, Gregor Laaha

Room: 36

Chairperson: Hege Hisdal

- 15:30–15:45 EGU2011-8123
Simon Parry, Christel Prudhomme, and Jamie Hannaford
 How well do large-scale models reproduce hydrological extremes in Europe?
- 15:45–16:00 EGU2011-4188
Claire Lang and Didier François
 From flood to low flow: analysis of recession processes
- 16:00–16:15 EGU2011-11649
Peter Molnar, Samuel Peter, and Paolo Burlando
 Power law tails in streamflow extremes: effect of precipitation and basin properties
- 16:15–16:30 EGU2011-5762
Rodrigo Rojas, Davide Bavera, and Luc Feyen
 On the value of bias correction to improve pan-European hydrological simulation of extreme events
- 16:30–16:45 EGU2011-8418
Shaochun Huang, Fred F. Hattermann, Valentina Krysanova, and Axel Bronstert
 Projections of hydrological extremes under climate change in Germany by combining three RCMs with a regional hydrological model
- 16:45–17:00 EGU2011-4134
Sarka Blazkova and Keith Beven
 Floods and droughts in continuous simulation with uncertainty

NH2.1/GMPV36 – Understanding and quantifying hazards related to volcanic activity (including Plinius Medal Lecture) (co-organized) – Orals

Convener: Antonio Costa | Co-Conveners: Costanza Bonadonna, Raphaël Paris, James Goff, Alexander Belousov, Matthew Watson, Arnau Folch

Room: 4

Chairperson: A. Belousov

- 10:30–11:30 EGU2011-1116
Raphaël Paris
 Volcanic tsunamis: sedimentary signature and implications for hazard evaluation (Plinius Medal Lecture)
- 11:30–11:45 EGU2011-43
Efim Pelinovsky
 Equivalent source of tsunamis from underwater explosions (review)
- 11:45–12:00 EGU2011-85
 James Goff, Catherine Chague-Goff, and **Dale Dominey-Howes**
 Tracking the extent of the Kuwae tsunami

LUNCH BREAK

Chairperson: A. Costa, J. Goff

- 13:30–13:45 EGU2011-1090
Thomas Giachetti, Raphaël Paris, Karim Kelfoun, and Francisco José Pérez-Torrado
 Numerical modelling of the tsunami triggered by the Güïmar debris avalanche, Tenerife (Canary Islands): comparison with field-based data

- 13:45–14:00 EGU2011-13516
James Hunt and Russell Wynn
 Resolving the landslide mechanism and tsunamigenic potential of catastrophic volcanic island flank collapses: Canary and Madeira Archipelagos
- 14:00–14:15 EGU2011-10503
Alessandro Bonaccorso, Alessandro Bonforte, Sonia Calvari, Ciro Del Negro, Giuseppe Di Grazia, Gaetana Ganci, Marco Neri, Anna Vicari, and Enzo Boschi
 The initial phases of the 2008-2009 Mt. Etna eruption: a multi-disciplinary approach for hazard assessment
- 14:15–14:30 EGU2011-10040
Augusto Neri and the Speed project Team
 Probabilistic hazard mapping of the pyroclastic density current hazard from sub-Plinian eruptions at Vesuvius (Italy) using novel methodologies to account for the main sources of uncertainty
- 14:30–14:45 EGU2011-2750
Michael Pavlonis
 Using Infrared Satellite Measurements to Identify and Track Volcanic Ash Clouds that Exceed Aircraft Exposure Thresholds: Capabilities and Limitations
- 14:45–15:00 EGU2011-3600
Gelsomina Pappalardo and the EARLINET Team
 4D distribution of the 2010 Eyjafjallajökull ash plume over Europe observed by the European Lidar network EARLINET
- Chairperson: A. Folch. C. Bonadonna
- 15:30–15:45 EGU2011-4347
Andrew Tupper
 Challenges to an improved International Airways Volcano Watch in the moist tropics
- 15:45–16:00 EGU2011-10619
Nina Iren Kristiansen, Andreas Stohl, Fred Prata, Sabine Eckhardt, Helen Webster, Matthew Hort, Dave Thomson, Stephan Henne, and Petra Seibert
 The 2010 Eyjafjallajökull eruption: Estimations of volcanic ash release and transport modelling using different models
- 16:00–16:15 EGU2011-11595
Claire Witham and Helen Webster
 Modelling concentrations of volcanic ash encountered by aircraft in past eruptions
- 16:15–16:30 EGU2011-13676
Marianne Guffanti, Andrew Tupper, Larry Mastin, Herbert Puempel, and Raul Romero
 The Role of International Science in Aviation-Risk Management Following the 2010 Eruption of Eyjafjallajökull, Iceland
- 16:30–16:45 EGU2011-12113
Matthew Hort, Benjamin Devenish, Helen Webster, and David Thomson
 Validation of the UK Met Office (London VAAC) dispersion model (NAME) for the Eyjafjallajökull eruption
- 16:45–17:00 EGU2011-6899
Andrew Bell, John Greenhough, Christopher Kilburn, Michael Heap, and Ian Main
 Forecasting volcanic eruptions using Voight's relation

NH2.1/GMPV36 – Understanding and quantifying hazards related to volcanic activity (including Plinius Medal Lecture) (co-organized) – Posters

Convener: Antonio Costa | Co-Conveners: Costanza Bonadonna, Raphaël Paris, James Goff, Alexander Belousov, Matthew Watson, Arnau Folch

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: A. Costa, M. Watson

- XY488 EGU2011-7205
Patrick Wassmer, Christopher Gomez, Raphael Paris, Jean Roger, and Franck Lavigne
 Anisotropy of Magnetic Susceptibility, a promising technique for tsunami deposits deciphering
- XY489 EGU2011-13667
Raphael Paris, Nelly Mazzoni, Patrick Wassmer, Franck Lavigne, Budiarto Ontowirjo, Alexander Belousov, and Marina Belousova
 Sedimentary signature of the Krakatau 1883 tsunamis
- XY490 EGU2011-1995
José Madeira, João Mata, Mário Moreira, and Dirk L. Hoffmann
 Deposits of a major Pleistocene tsunami in the Island of Maio (Cape Verde)

- XY491 EGU2011-1091
Thomas Giachetti, Raphaël Paris, Karim Kelfoun, and Budiarto Ontowirjo
Tsunami hazard related to a flank collapse of Anak Krakatau volcano, Sunda Strait, Indonesia
- XY492 EGU2011-2759
Karim Kelfoun, Thomas Giachetti, Philippe Labazuy, and Raphaël Paris
Landslide-generated tsunamis at Réunion Island and their possible sedimentary record in Mauritius Island
- XY493 EGU2011-2292
José Madeira, Mercedes Ferrer Gijón, Luis I Gonzalez de Vallejo, César Andrade, Maria da Conceição Freitas, Alejandro Lomoschitz, and Dirk L. Hoffmann
Agaete revisited: new data on the Gran Canaria tsunamiites
- XY494 EGU2011-11665
Marina Belousova and Alexander Belousov
Tsunamigenic volcanic landslides of Kurile-Kamchatka arc
- XY495 EGU2011-6739
Tatyana Novikova, Gerassimos A. Papadopoulos, and Floyd McCoy
Volcanic Tsunamis in the Mediterranean Sea: A Review
- XY496 EGU2011-3448
Arnau Folch, **Soledad Osoreo**, Gloria Pujol, Estela Collini, and Martina Suaya
Evaluation of the FALL3D model using WRF-ARW fields for the 2008 Chaitén eruption
- XY497 EGU2011-1659
Roberto Sulpizio and **Arnau Folch**
Far-range Volcanic Ash Hazard from Somma-Vesuvius. Consequences for Civil Aviation over the Central Mediterranean Area
- XY498 EGU2011-12984
Kuniaki Miyamoto, Yutaka Gonda, Shintaro Yamashita, and Haruka Matsuyoshi
Hazard estimation of the possible pyroclastic flow disasters using numerical simulation related to the 2010 activity at Merapi Volcano, Indonesia
- XY499 EGU2011-6375
Michael Cooke, Peter Francis, and Roger Saunders
Retrieval of microphysical properties of a volcanic plume using the multispectral satellite instrument SEVIRI: Application to the Eyjafjallajökull eruption in April and May 2010.
- XY500 EGU2011-8628
Robert Constantinescu, Jean - Claude Thouret, and Laura Sandri
Volcanic hazard assessment for El Misti volcano (South Peru) based on the BET_VH (Bayesian Event Tree for Volcanic Hazard) software (work in process)
- XY501 EGU2011-9952
Rosanna Bonasia, Lucia Capra, Antonio Costa, and **Giovanni Macedonio**
Numerical simulation of the tephra fallout deposit of the 1913 Colima eruption, México: implications for hazard assessment
- XY502 EGU2011-10196
Matteo Picchiani, Marco Chini, **Stefano Corradini**, Luca Merucci, Pasquale Sellitto, Fabio Del Frate, Salvatore Stramondo, and Alessandro Piscini
Detection and retrieval of volcanic ash from IR spectral data by means of Neural Networks approach
- XY503 EGU2011-10657
Alessandro Piscini, Stefano Corradini, Francesco Marchese, Luca Merucci, Nicola Pergola, and Valerio Tramutoli
Volcanic ash cloud detected by AVHRR sensor: comparison between two different methodologies for daytime and nighttime measurements
- XY504 EGU2011-7502
Amy Collinson and Jurgen Neuberg
A New Model for Gas Transport and Storage in a Permeable Volcanic Edifice
- XY505 EGU2011-4952
Arnau Folch, Sara Basart, and **Antonio Costa**
Modelling and forecasting the Eyjafjallajökull volcanic ash cloud using the FALL3D ash dispersion model
- XY506 EGU2011-4904
Changwook Lee, Zhong Lu, and Hyungsup Jung
Time Series Surface Deformation Analysis in the Seguam Volcano for Verifying the Refined SBAS Technique
- XY507 EGU2011-1536
Hélène Monnard, **Irene Manzella**, Costanza Bonadonna, and Jeremy C. Phillips
Convective Instabilities in Volcanic Plumes
- XY508 EGU2011-784
Rose Burden, Jeremy Phillips, and Thea Hincks
Determining Volcanic Plume Height

- XY509 EGU2011-12244
Michael Fromm, Douglas Westphal, James Campbell, René Servranckx, and Pat Kablick
 Ash and dust together in the UTLS: April 2010 Eyjafjallajökull volcano eruptions and Taklimakan Desert dust storms
- XY510 EGU2011-5004
José Manuel Marrero, Alicia García, Ángeles Llinares, Ramón Ortiz, and José A. Rodríguez-Losada
 New hazard scenarios for Teide Pico-Viejo volcano complex and potential casualty risks.
- XY511 EGU2011-9419
David Winker, Zhaoyan Liu, Ali Omar, and Jason Tackett
 Detection and characterization of ash plumes from Eyjafjallajökull with satellite lidar
- XY512 EGU2011-10515
Leif Vogel, Bo Galle, Christoph Kern, Hugo Delgado Granados, Ulrich Platt and the Fiel-Volcan Team
 Early in-flight detection of SO₂ via Differential Optical Absorption Spectroscopy: A feasible aviation safety measure to prevent potential encounters with volcanic plumes
- XY513 EGU2011-2342
Olga Girina, Alexander Manevich, Sergey Ushakov, Anton Nuzhdaev, Dmitry Melnikov, Olga Konovalova, and Yury Demyanchuk
 Explosive Eruptions of Kamchatkan Volcanoes in 2010
- XY514 EGU2011-1428
Mohammed Rashad Moufti
 Assessing Volcanic Hazard of a Quaternary Lava Field in the Kingdom of Saudi Arabia
- XY515 EGU2011-3426
Costanza Bonadonna, Folch Arnau, Loughlin Susan, and Puempel Herbert
 Future developments in modelling and monitoring of volcanic ash clouds: outcomes from the first IAVCEI-WMO workshop on Ash Dispersal Forecast and Civil Aviation (Geneva, Switzerland, 18-20 October 2010)

NH2.3/AS4.29/GMPV47 – The 2010 flank and summit eruptions at Eyjafjallajökull volcano (Iceland): History of an eruption from source to the atmosphere (co-organized) – Orals

Convener: Thorvaldur Thordarson | Co-Conveners: susan loughlin, Sigrun Hreinsdottir, Halldór Björnsson, Séverine Moune

Room: 4

Chairperson: n.n.

- 08:30–08:45 EGU2011-8790
Helen Dacre and Alan Grant
 The prediction and observation of volcanic ash clouds during the Eyjafjallajökull eruption
- 08:45–09:00 EGU2011-1319
 Cordelia Maerker, **Lars Klüser**, Thilo Erbertseder, Julian Meyer-Arneke, Dmytro Martynenko, and Thomas Holzer-Popp
 Infrared observation of volcanic ash and estimation of ash emission profiles of the 2010 Eyjafjöll eruption
- 09:00–09:15 EGU2011-13253
Andreas Vogel, Konradin Weber, Christian Fischer, Günther van Haren, Tobias Pohl, Bernhard Grobety, and Mario Meier
 Airborne in-situ measurements of the Eyjafjallajökull ash plume with a small aircraft and optical particle spectrometers over north-western Germany - comparison between the aircraft measurements and the VAAC-model calculations
- 09:15–09:30 EGU2011-2420
Nicolas Bukowiecki and the The Swiss Eyja In-Situ Observation Team
 Ground-based and airborne in-situ measurements of the Eyjafjallajökull volcanic aerosol plume in Switzerland in April and May 2010
- 09:30–09:45 EGU2011-6252
Matthias Tesche, Albert Ansmann, Patric Seifert, Ina Mattis, Silke Groß, Volker Freudenthaler, Arnaud Apituley, Keith Wilson, Ilya Serikov, and Holger Linné
 Separation of volcanic ash and sulfate aerosol based on lidar-photometer observations in central Europe after the eruption of the Eyjafjallajökull volcano
- 09:45–10:00 EGU2011-4957
Patric Seifert, Silke Groß, Albert Ansmann, Volker Freudenthaler, Anja Hiebsch, Jörg Schmidt, Franziska Schnell, Matthias Tesche, Bernd Heinold, and Matthias Wiegner
 Ice formation in ash-influenced clouds after the Eyjafjallajökull eruption in April 2010
- 10:00–10:15 EGU2011-11538
Julien Vergoz, Robin S. Matoza, Alexis Le Pichon, Pierre Gaillard, Lars Ceranna, David N. Green, Láslo G. Evers, Emanuele Marchetti, Maurizio Ripepe, and Paola Campus
 Telesonic infrasound from Eyjafjallajökull, Iceland: a unique opportunity to understand infrasonic network detection capability of volcanic eruptions

NH2.3/AS4.29/GMPV47 – The 2010 flank and summit eruptions at Eyjafjallajökull volcano (Iceland): History of an eruption from source to the atmosphere (co-organized) – Posters

Convener: Thorvaldur Thordarson | Co-Conveners: susan loughlin, Sigrun Hreinsdottir, Halldór Björnsson, Séverine Moune Halls XY | **Display Time 08:00–19:30**

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY516 EGU2011-10353
Sigrún Hreinsdóttir, Thóra Árnadóttir, Freysteinn Sigmundsson, Andrew Hooper, Matthew Roberts, Halldór Geirsson, and Benedikt Ófeigsson
 Surface Deformation Prior to and During the 2010 Eyjafjallajökull Eruptions from Spatial and Temporal Variations in GPS Time Series
- XY517 EGU2011-13017
Joana Martins, Andrew Hooper, Karsten Spaans, Freysteinn Sigmundsson, and Kurt Feigl
 InSAR Time Series analysis of the Eyjafjallajökull eruptions using TerraSAR-X data
- XY518 EGU2011-8413
 Jon Tarasewicz, Bryndis Brandsdottir, **Robert White**, Martin Hensch, and Bergthora Thorbjarnardottir
 Tracking the seismicity preceding and during the March 2010 Fimmvörðuháls fissure eruption and April 2010 summit eruption of Eyjafjallajökull, Iceland
- XY519 EGU2011-13109
Freysteinn Sigmundsson, Kristin Vogfjord, Sigurlaug Hjaltadóttir, Bryndis Brandsdottir, Jon Tarasewicz, Bob White, Martin Hensch, Jakob K. Keiding, Olgeir Sigmarrsson, and Andy Hooper
 Volcano anatomy: Comparing geodetic, seismic, and geochemical constraints on inner structure and magma transport at Eyjafjallajökull volcano
- XY520 EGU2011-3686
Haraldur Páll Gunnlaugsson, Sigurdur Steinthorsson, Niels Oskarsson, Morten Bo Madsen, Per Nørnberg, and Jon Merrison
 Mössbauer Spectroscopy of Samples from the 2010 Eyjafjallajökull Summit Eruption
- XY521 EGU2011-12046
Thorvaldur Thordarson, Chris Hayward, Margaret Hartley, Olgeir Sigmarrsson, Ármann Höskuldsson Höskuldsson, and Guðrún Larsen
 The 14 April - 22 May 2010 summit eruption at Eyjafjallajökull volcano, Iceland: Volatile contents and magma degassing
- XY522 EGU2011-12040
Patrick Allard, Mike Burton, Niels Oskarsson, Agnès Michel, and Margherita Polacci
 Magmatic gas composition and fluxes during the 2010 Eyjafjallajökull explosive eruption: implications for degassing magma volumes and volatile sources
- XY523 EGU2011-7978
Pórður Arason, Halldór Björnsson, and Guðrún Nína Petersen
 Plume-top altitudes during the Eyjafjallajökull 2010 eruption
- XY524 EGU2011-13167
 Ingibjörg Jónsdóttir, Guðrún Larsen, **Thor Thordarson**, Ármann Höskuldsson, Friðrik Höskuldsson, and Ashley Gerard Davies
 Tephra dispersal monitoring by satellite images
- XY525 EGU2011-9091
John Stevenson, Jennie Gilbert, Ármann Höskuldsson, Antoni Milodowski, Susan Loughlin, and Thorvaldur Thordarson
 Morphology of proximal and distal ash grains from the 2010 Eyjafjallajökull summit eruption.
- XY526 EGU2011-13213
Chr. Bender Koch, Thomas Bjerring Kristensen, and Merete Bilde
 SEM analysis of tephra collected in rain in Copenhagen during the 2010 eruption of Eyjafjallajökull
- XY527 EGU2011-5886
Ulrich Schumann, Robert Baumann, Andreas Minikin, Oliver Reitebuch, Thomas Sailer, Hans Schlager, Christian Voigt, and Bernadett Weinzierl
 The volcanic ash plume near the Eyjafjallajökull in April/May 2010
- XY528 EGU2011-3522
Bergrun Oladottir, Gudrun Larsen, and Olgeir Sigmarrsson
 The neighbours of the Eyjafjallajökull volcano: Katla, Grímsvötn and Bárðarbunga
- XY529 EGU2011-6221
Gudrun Sverrisdottir and the Lahar Team
 May 19th rain triggered lahar originating in the Eyjafjallajökull 2010 volcanic ash. Observation, mapping and granulometric study.
- XY530 EGU2011-8563
Stuart Dunning, Andy Large, Andy Russell, Anne-Sophie Meriaux, Robert Duller, and Matthew Roberts
 The use of repeat Terrestrial Laser Scanning to quantify jokulhlaup induced change caused by the 2010 Eyjafjallajökull eruption, Iceland

- XY531 EGU2011-13142
Andy Russell, Andy Large, Anne-Sophie Mériaux, Stuart Dunning, Matthew Roberts, Rob Duller, Qihua Liang, Jonathan Carrivick, Fiona Tweed, and Málfríður Ómarsdóttir
 Impacts and dynamics of volcanically-generated jökulhlaups, Eyjafjallajökull, Iceland
- XY532 EGU2011-4161
Robert Duller, Nicholas Warner, Chris McGonigle, and Andrew Russell
 Landscape response and development following the catastrophic 1918 jökulhlaup, southern Iceland
- XY533 EGU2011-10941
Martin Kirkbride and Andrew Dugmore
 Impacts of the Ey2010 tephra fall on Icelandic ice caps: interactions between substrate and glacier surface topography.
- XY534 EGU2011-11546
Throstur Thorsteinnsson, Thorsteinn Johannsson, and Gudrun Petursdottir
 High levels of particulate matter due to ash plume and ash re-suspension following the Eyjafjallajökull eruption

NH3.4 – Advanced methods in landslides research I: remote sensing and geophysics – Orals

Convener: Janusz Wasowski | Co-Conveners: Vincenzo Del Gaudio, Gilles Grandjean, Michel Jaboyedoff

Room: 1

Chairperson: J. Wasowski, M. Jaboyedoff

- 13:30–13:45 EGU2011-7975
Vincent Balthazar and Veerle Vanacker
 Remote sensing techniques for landslide detection, and their efficiency according to different pre-processing levels of high-resolution satellite data
- 13:45–14:00 EGU2011-8607
Sigrid Roessner, Mahdi Motagh, Robert Behling, Kanayim Teshebaeva, Hans-Ulrich Wetzel, and Hermann Kaufmann
 Optical and radar remote sensing for quantitative analysis of landslide activity in Southern Kyrgyzstan, Central Asia
- 14:00–14:15 EGU2011-8325
Chloé Barboux, Reynald Delaloye, Claude Collet, Tazio Strozzi, and Hugo Raetzo
 Slope instabilities monitoring in mountain periglacial environment using DInSAR - Application to the Valais Alps
- 14:15–14:30 EGU2011-6661
Christian Iasio, Stefan Schneiderbauer, Andrea Tamburini, and Volkmar Mair
 A feasibility study on COSMO SkyMed X-Band application for the monitoring of slow landslides: the deep seated gravitational slope deformation (DSGSD) in the area of Corvara in Badia (Dolomites, Italy)
- 14:30–14:45 EGU2011-6772
Diego Di Martire, Antonio Iodice, Massimo Ramondini, Giuseppe Ruello, and Domenico Calcaterra
 Combined observations of surface displacements using Differential Interferometry SAR (DInSAR), GPS and traditional monitoring techniques
- 14:45–15:00 EGU2011-8767
Sabine Roedelsperger, Gwendolyn Läufer, Andreas Eichhorn, Carl Gerstenecker, and Matthias Becker
 Continuous monitoring of landslides with ground based SAR: A case study at Steinlehen, Austria
- Chairperson: V. Del Gaudio, G. Grandjean
- 15:30–15:45 EGU2011-8621
Pauline Miller, Jon Mills, Stuart Barr, Andrew Hardy, Stephen Birkinshaw, and Geoff Parkin
 A combined remote sensing - geotechnical modelling approach for fine-scale landslide hazard assessment
- 15:45–16:00 EGU2011-9424
Sabrina Rothmund, Marco Walter, Jean-Philippe Malet, and Manfred Joswig
 High-resolution geophysical and hydrological observations of surface and subsurface dynamics at the slow-moving Super-Sauze landslide (South French Alps)
- 16:00–16:15 EGU2011-6057
 Aline Deprez, **Jean-Philippe Malet**, Frédéric Masson, and Patrice Ulrich
 Continuous monitoring and near-real time processing of GPS observations for landslide analysis: a methodological framework.
- 16:15–16:30 EGU2011-11658
Alexander Daehne, Alessandro Corsini, and Francesco Ronchetti
 Correlation image velocimetry applied to multitemporal LiDAR data for automated landslide movement assessment

16:30–16:45 EGU2011-8002
Marco Walter and Manfred Joswig
 Resolving deformation-induced fracture processes at the slow-moving Heumoes slope by permanent seismic monitoring

16:45–17:00 EGU2011-10051
 Emanuele Forte, **Stefano Devoto**, Matteo Mantovani, Arianna Mocnik, Alessando Pasuto, Daniela Piacentini, Michele Pipan, and Mauro Soldati
 Integrated remote sensing and geophysical techniques to assess landslide hazard along the north-western coast of the Island of Malta.

NH3.4 – Advanced methods in landslides research I: remote sensing and geophysics – Posters

Convener: Janusz Wasowski | Co-Conveners: Vincenzo Del Gaudio, Gilles Grandjean, Michel Jaboyedoff

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: V. Del Gaudio, M. Jaboyedoff

- XY535 EGU2011-5962
Michele Santangelo, Federica Fiorucci, Mauro Cardinali, Alessandro Cesare Mondini, Paola Reichenbach, Francesca Ardizzone, Kang-tsung Chang, and Fausto Guzzetti
 Comparison of new methods for regional landslide detection and mapping
- XY536 EGU2011-11423
Maura Lousada and the Instituto Superior Técnico Team
 A comparative assessment of supervised pixel-based classification methods in the detection of landslide scars
- XY537 EGU2011-6786
Daniel Hölbling and Petra Füreder
 A (semi-)automated object-based approach for landslide detection based on SPOT-5 imagery and digital elevation data
- XY538 EGU2011-8887
Namphon Khampilang and Malcolm Whitworth
 Landslide risk assessment for the Toktogul region of Kyrgyzstan, Central Asia
- XY539 EGU2011-8390
Silvia Bianchini, Francesca Cigna, and Nicola Casagli
 Assessing the state of activity and intensity of slow moving landslides by means of RADARSAT Persistent Scatterer Interferometry: Northern Calabria (Italy) case study
- XY540 EGU2011-6754
Elena Nikolaeva and Thomas R. Walter
 Landslide detected by InSAR and optical images in central Georgia: a tectonic or a man made trigger?
- XY541 EGU2011-11139
Janusz Wasowski, Fabio Bovenga, Davide Oscar Nitti, Raffaele Nutricato, Tom Dijkstra, and Xingmin Meng
 Detecting very slow ground movements using PS interferometry in the Lanzhou loess area of Gansu Province, China.
- XY542 EGU2011-7619
Clément Michoud, Valérie Baumann, Marc-Henri Derron, Michel Jaboyedoff, Tom Rune Lauknes, and Emmanuel Wick
 Detection of Large Slope Instabilities using Spaceborne Radar Interferometry along the National Road 7, Mendoza Province, Argentina.
- XY543 EGU2011-6261
Misganu Debella-Gilo and Andreas Käab
 Spatially adaptive least squares image matching for monitoring slow-moving land slides
- XY544 EGU2011-10302
 Julien Travelletti, **Jean-Philippe Malet**, and Christophe Delacourt
 Characterization of the 3D displacement field of landslides from Terrestrial Laser Scanning using 2D cross-correlation technique
- XY545 EGU2011-9856
Andre Stumpf, Uwe Niethammer, Sabrina Rothmund, Alexandre Mathieu, Jean-Philippe Malet, Kerle Norman, and Manfred Joswig
 Object-oriented analysis of unmanned aerial vehicle (UAV) imagery for mapping and monitoring fissures in landslide bodies
- XY546 EGU2011-11657
Alessandro Bonforte, Francesco Calvagna, Massimo Cantarero, Giuseppe Casula, Orazio Consoli, Salvatore Consoli, Mario Marturano, Arianna Pesci, Giuseppe Puglisi, and Benedetto Saraceno
 Terrestrial Laser Scanning (TLS) over volcanic areas: experiments on Vesuvius, Stromboli and Vulcano (Italy)

- XY547 EGU2011-9706
Marc-Henri Derron, Dario Carrea, Benoît Fragnol, Céline Longchamp, Clément Michoud, Michel Jaboyedoff, Lars Harald Blikra, Lene Kristensen, and Thierry Oppikofer
 Off-shore Laser Scanning of coastal cliffs for rockfall hazard assessment by IMU/GNSS coupled Lidar
- XY548 EGU2011-9350
Sabrina Rothmund, Jean-Philippe Malet, and Manfred Joswig
 Comparative analysis of landslide kinematics using ground-based optical images and terrestrial laser scanning
- XY549 EGU2011-11038
Marta Guinau, David Garcia-Sellés, and Josep Anton Muñoz
 Rock fall source areas detection and volume estimation by using terrestrial laser scanner data
- XY550 EGU2011-12001
Candide Lissak Borges, Olivier Maquaire, Jean-Philippe Malet, Christopher Gomez, and Franck Lavigne
 Crossing of investigation and methods to define the internal geometry of a coastal landslide in Normandy
- XY551 EGU2011-2399
Stefan Mertl, Sabine Rödelsperger, and Stefan Weginger
 Seismic- and GBSAR monitoring of a rock-slide
- XY552 EGU2011-6729
Kévin Samyn, Adnand Bitri, Gilles Grandjean, and Audrey Courtois
 Characterization of an unstable mountain slope using 3D active and passive seismic survey, the case of the La Valette landslide.
- XY553 EGU2011-12135
Kerim Martinez and Jose Alfredo Mendoza
 Geophysical investigations to characterize slope stability at planned viaduct site in Constantine, Algeria.

NH3.7 – Prediction and forecasting of landslides – Orals

Convener: Filippo Catani | Co-Conveners: Fausto Guzzetti, Nejan Huvaj

Room: 1

Chairperson: Filippo Catani

- 08:30–08:45 EGU2011-685
Aykut Akgün, Zekai Angın, Sabriye Banu Kizler, and Gökhan Demir
 An Assessment of the Rainfall-induced Gundog̃du (Rize, Northeastern Turkey) landslides and flooding: A perspective of Geotechnical and Geomorphological characteristics.
- 08:45–09:00 EGU2011-4690
David J. Peres and Antonino Cancelliere
 Rainfall thresholds for debris-flow early warning: application to North-East Sicily area
- 09:00–09:15 EGU2011-10549
Matteo Berti, Alessandro Corsini, Francesco Ronchetti, Guido Bernardi, Fabrizio Bertocchi, Alberto Rosi, and Franco Zambonelli
 Use of Wireless Sensor Networks for landslide monitoring
- 09:15–09:30 EGU2011-10550
 José Mauricio Cepeda, **Jean-Philippe Malet**, and Alexandre Remaître
 Empirical estimates of precipitation conditions for landslide triggering in France and Norway
- 09:30–09:45 EGU2011-6084
Séverine Bernardie, Nicolas Desramaut, Jimmy Zurcher, Gilles Grandjean, Bertrand Aunay, and Pierre Belle
 Use of a black box model (TEMPO) to predict changes in landslide rate induced by rainfalls
- 09:45–10:00 EGU2011-10398
Christian Jaedicke, Miet Van Den Eeckhaut, Farrokh Nadim, Javier Hervás, Bjørn Kalsnes, Jessica T. Smith, Veronica Tofani, Roxana Ciurean, and Mike G. Winter
 Identification of landslide hazard and risk "hotspots" in Europe

NH3.7 – Prediction and forecasting of landslides – Posters

Convener: Filippo Catani | Co-Conveners: Fausto Guzzetti, Nejan Huvaj

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Nejan Huvaj

- XY554 EGU2011-938
Angelika Pocsai, András Zámolyi, Balázs Székely, Gábor Molnár, Andreas Roncat, and Peter Drexel
 Change detection on the Doren landslide, using geological field measurements and laser-scanned data (Vorarlberg, Austria)

- XY555 EGU2011-2345
Byung-Gon Chae and Jeong-Hae Choi
A method to predict landslide based on gradient of volumetric water content
- XY556 EGU2011-3395
Gianluca Martelloni, Samuele Segoni, Riccardo Fanti, and Filippo Catani
A statistical model based on rainfall thresholds for landslides forecasting: implementation in the alert systems of the Emilia Romagna region (Italy) for civil protection purposes.
- XY557 EGU2011-3991
Jui-Yi Ho, Kwan Tun Lee, Tung-Chiung Chang, and Yu-Hsun Liao
Influences of soil thickness on shallow landslide prediction
- XY558 EGU2011-5660
Silvia Peruccacci, Maria Teresa Brunetti, Silvia Luciani, Carmela Vennari, and Fausto Guzzetti
Lithological control on rainfall thresholds for the possible initiation of landslides in central Italy
- XY559 EGU2011-6010
Guérolé Mainsant, Eric Larose, Denis Jongmans, Clément Michoud, Cornelia Brönnimann, Laurent Baillet, and Michel Jaboyedoff
Variation of S-wave velocity as an indicator for predicting solid-to-liquid transition in clay landslide
- XY560 EGU2011-8301
Gianluca Martelloni, Emanuele Massaro, and Franco Bagnoli
Particle based method for shallow landslides: theoretical effect of sliding surface lubrication by rainfall
- XY561 EGU2011-8432
Roberto Giannecchini, **Yuri Galanti**, and Giacomo D'Amato Avanzi
Rainfall and shallow landslides in the Middle Serchio Valley (Northern Tuscany, Italy): possible duration/intensity critical threshold curves
- XY562 EGU2011-8837
Aurélie Pannatier, Charly Berthod, and **Eric Bardou**
Landslide of Morasses : Borehole campaign and hydrogeology study
- XY563 EGU2011-8852
Eric Bardou, Guillaume Favre-Bulle, Pascal Ornstein, and Jean-Daniel Rouiller
Glacier Bonnard (Switzerland) a complex permafrosted site source of debris flows : necessary monitoring for prediction of the dynamic and its evolution
- XY564 EGU2011-8945
Claudia Meisina, Davide Zizioli, and Francesco Zucca
Shallow landslides susceptibility mapping: comparison of different deterministic methods
- XY565 EGU2011-9277
Celine Bourdeau, Philippe Reiffsteck, and Pietro Alfonsi
Application of an existing landslide forecast analytical model to different geographic, climatic, geological and topographic settings
- XY566 EGU2011-9389
Matteo Convertino, Filippo Catani, and Alberto Troccoli
Maximum Entropy Macroscale Prediction of the Occurrence and Size of Landslides Driven by Climate Change Rainfall Variation
- XY567 EGU2011-11079
Claudio Lucianaz, Fabrizio Diotri, Marco Vagliasindi, Oscar Rorato, Marcello Mamino, Marco Allegretti, Nicola Bergomi, and Marco Roggero
A low cost wireless GNSS network to trace displacements
- XY568 EGU2011-11204
Samuele Segoni, Alessandro Battistini, Ascanio Rosi, Guglielmo Rossi, and Filippo Catani
A real time WebGIS landslide warning system based on a regional set of spatially variable rainfall thresholds
- XY569 EGU2011-12605
Paulo Amaral, Rui Marques, José Luís Zêzere, Gabriela Queiroz, and Fernando Marques
Soil matric suction and its contribution for slope stability assessment on a near real time monitoring basis: a case study from Povoação council (Azores)
- XY570 EGU2011-13132
Zenaida Chitu, Ionut Sandric, Bogdan Mihai, and Ionut Savulescu
Spatio-temporal prediction of landslide hazard in Subcarpathian Area, between Prahova and Ialomita Valleys, Romania
- XY571 EGU2011-13193
Matthias Wiegand, Christoph Seeber, Heike Hartmann, Wei Xiang, and **Lorenz King**
Landslide Hazards in the Xiangxi Watershed / Three Gorges Reservoir, China: Assessing internal biophysical Vulnerability
- XY572 EGU2011-11444
Emanuele Intrieri and Farrokh Nadim
Guidelines for the design and implementation of landslide Early Warning Systems

XY573 EGU2011-593

Gökhan Demir, Mustafa Aytekin, Aykut Akgün, and Sabriye Banu ?kizler

Landslide susceptibility mapping for a part of North Anatolian Fault Zone (Northeast Turkey) using likelihood-frequency ratio model

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

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

Room: 18

Chairperson: M. Meghraoui and P. Briole

08:30–08:45 EGU2011-12696

Andrew Hooper, David Bekaert, and Mahmut Arikan

Radar interferometry for measuring regional-scale processes

08:45–09:00 EGU2011-12096

Ziyadin Cakir, Mustapha Meghraoui, Esra Cetin, Ahmet Akoglu, and Samir Belabbes

Postseismic Hanging-wall Subsidence of the 2003 Zemmouri (Mw=6.9, Algeria) Thrust Earthquake From InSAR Time Series

09:00–09:15 EGU2011-11725

Jean-Mathieu Nocquet, Andrea Walpersdorf, François Jouanne, Frédéric Masson, Jean Chéry, and Philippe Vernant

Slow deformation in the Western Alps from a decade of Continuous GPS measurements

09:15–09:30 EGU2011-13090

Pierre Briole

Ground deformation monitoring in the Corinth rift laboratory, Greece

09:30–09:45 EGU2011-4840

Athanassios Ganas, Kostas Chousianitis, George Drakatos, Marios Papanikolaou, Panagiotis

Argyris, Maria Kolligri, Panagiota Petrou, Evagelia Batsi, and Christina Tsimi

NOANET: High-rate GPS Network for Seismology and Geodynamics In Greece

09:45–10:00 EGU2011-2324

Ugur Dogan, Semih Ergintav, Baki Karaboce, Gokhan Arslan, Ayse Selendi (1), Deniz Oz, Cuneyt Ayd?n (1), Azer Ilgar, Rahsan Cakmak (2), Alpay Belgen, Enver Sad?koglu, Eyup Bilgic, and Ahmet Direnc

Long-term Crustal Deformations Based on Gravity and GPS Measurements (2006 - 2010) in Marmara Region, Turkey

COFFEE BREAK

Chairperson: R. Reilinger and A. Hooper

10:30–10:45 EGU2011-11359

Philippe Vernant

Interseismic strain across strike slip faults, what can we learn from ~20 years of GPS measurements ?

10:45–11:00 EGU2011-11222

Cecilia Sciarretta, Vincenza Luceri, Roberto Lanotte, Rosa Pacione, Brigida Pace, and Giuseppe Bianco

Velocity field in Mediterranean area from ASI-CGS GPS, SLR and VLBI solutions: the ASIMed solution

11:00–11:15 EGU2011-3512

Roberto Sabadini, Gabriele Cambiotti, and Yanick Ricard

New insights on Mantle Convection and Ice Age True Polar Wander

11:15–11:30 EGU2011-8013

Johannes Boehm, Peter Steigenberger, Robert Heinkelmann, and Harald Schuh

Troposphere delay modeling in VLBI and GNSS analysis

11:30–11:45 EGU2011-6503

Luce Fleitout, Jean-Didier Garaud, Georges Cailletaud, Christophe Vigny, Wim Simons, Boujewin

Ambrosius, Itthi Trisirisatayawong, and Chalermchon Satirapod

Modeling the post-seismic deformations of the Aceh, Nias and Benkulu earthquakes

11:45–12:00 EGU2011-9723

Tonie van Dam, Xavier Collilieux, Zuheir Altamimi, and James Ray

A review of GPS and GRACE estimates of surface mass loading effects

G3.2/AS4.19/CL4.9/GD1.6/NH4.8/SM5.7 – Geodesy and natural and induced hazards: Progress during 30 years of the

WEGENER initiative (co-organized) – Posters

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

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

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

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

- XL201 EGU2011-6742
Matthias Becker, **Mohamed Saleh**, Mohamed Rashwan, Sayed Mohamed Abd el-Monem, Salah Mahmoud, Hassan Khalil, Awad Omran, and Mostafa Yousef
Regional and local deformation analysis results from the Nile River Valley and its relation to seismicity
- XL202 EGU2011-7357
Mohamed Chlieh, Hernando Tavera, Jean-Mathieu Nocquet, Juan-Carlos Villegas, Hugo Perfettini, and Jean-Philippe Avouac
Interseismic Coupling maps in South America subduction zone as indicator of future large Megathrust Earthquakes
- XL203 EGU2011-8062
Joaquim Sousa, Luisa Bastos, Antonio Ruiz, Ramon Hanssen, and Andy Hooper
Terrain Deformation Monitoring in Granada Basin Area Using Persistent Scatterers Interferometry (PSI)
- XL204 EGU2011-9179
Yasser Mahmoud, Frederic Masson, Mustapha Meghraoui, Ziyadin Cakir, Abd elmotaleb Alchalbi, Hakan Yavasoglu, Onder Yönlü, Mohamed Daoud, Semih Ergintav, and Sedat Inan
GPS velocity field in SE Turkey and NW Syria derived from 2009 and 2010 measurements
- XL205 EGU2011-9721
Yüksel Altiner
Another view on the study of Earth's crust deformations applied in Adriatic plate
- XL206 EGU2011-12464
Aggeliki Marinou, Xanthos Papanikolaou, Dimitris Paradissis, Dimitris Anastasiou, Vangelis Zacharis, Panayiotis Tzavaras, Kalliopi Papazissi, and Christiana Mitsakaki
Estimating of tectonic velocities in the Ionian region.
- XL207 EGU2011-11998
Rui Fernandes, José Quembo, Jorge Miranda, and Damien Delvaux
Present-Day Kinematics of Mozambique derived from Episodic GPS data
- XL208 EGU2011-12149
Robert King, Simon McClusky, Philippe Vernant, Semih Ergintav, Galaktion Hahubia, Fakhraddin Kadirov, Samir Mammadov, Ruben Stepanyan, Tamara Guseva, and Vadim Milyukov
New GPS velocity field for the Arabian-Eurasian collision zone
- XL209 EGU2011-12720
Dimitris Anastasiou, Aggeliki Marinou, Xanthos Papanikolaou, Vangelis Zacharis, Dimitris Paradissis, Kalliopi Papazissi, and Christiana Mitsakaki
Deformation studies using GPS data for South Peloponnisos
- XL210 EGU2011-12775
Juan Carlos Villegas Lanza, Jean-Mathieu Nocquet, Hernando Tavera, Mohamed Chlieh, and Francis Bondoux
A new GPS velocity field from Central Peru to northern Ecuador
- XL211 EGU2011-8122
Oliver Boyd, Yuehua Zeng, and Leonardo Ramirez-Guzman
Modeling surface deformation in the New Madrid seismic zone
- XL212 EGU2011-9330
Tilo Schöne, Julia Illigner, Cornelia Zech, Cecep Subarya, Pak Khafid, Wahyu Pandoe, Imam Mudita, and Roman Galas
GNSS in Support of Sea Level Monitoring: Early Warning to Long-Term Corrections
- XL213 EGU2011-13129
David Mencin, Selwyn Sacks, Alan Linde, and Michael Gladwin
Borehole Strainmeters and Natural Hazards

NH7.2/AS4.14/BG2.17 – Fire in the Earth System: Impacts and Feedbacks (co-organized) – Orals

Convener: Kirsten Thonicke | Co-Conveners: Allan Spessa

Room: 2

Chairperson: Kirsten Thonicke

- 10:30–10:45 EGU2011-383
Fernando Castro, Francesca Barnaba, Federico Angelini, and Gian Paolo Gobbi
The relative role of Amazonian and non-Amazonian fires in building up the aerosol optical depth in South America
- 10:45–11:00 **Placeholder**
- 11:00–11:15 EGU2011-1097
ronan Paugam, martin Wooster, george Papadakis, and martin Schultz
Estimation of the Injection Height of Biomass Burning Emission

- 11:15–11:30 EGU2011-2668
João Silva, João Carreiras, Isabel Rosa, and José Pereira
 Greenhouse gas emissions from shifting cultivation in the tropics, including uncertainty and sensitivity analysis
- 11:30–11:45 EGU2011-7074
 Elisa Garcia-Hurtado, Esther Borrás, Pilar Sanchez, **Teresa Vera**, M.Jaime Baeza, and V.Ramon Vallejo
 Determination of emissions from Mediterranean shrubland fires.
- 11:45–12:00 EGU2011-13297
Brian Magi, Elena Shevliakova, Sergey Malyshev, and Stephen Pacala
 Modeling Anthropogenic Drivers of Fires

NH7.2/AS4.14/BG2.17 – Fire in the Earth System: Impacts and Feedbacks (co-organized) – Posters

Convener: Kirsten Thonicke | Co-Conveners: Allan Spessa

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Kirsten Thonicke

- XY574 EGU2011-621
Faith Taylor, Ronan Paugam, and Martin Wooster
 Exploring and Improving Methods of Validating a 1D Plume Rise Model for Wildfire Emissions: The Use of BIRD and MODIS Earth Observation Products
- XY575 EGU2011-2921
Matthias Forkel, Kirsten Thonicke, Sibyll Schaphoff, Ursula Heyder, and Christiane Schmillius
 Hotspots, vulnerable ecosystems and global change of fire-influenced permafrost degradation
- XY576 EGU2011-3542
Mirco Migliavacca, Alessandro Dosio, Alessandro Cescatti, Andrea Camia, Jesus San Miguel-Ayanz, and Tracy Durrant Houston
 Modeling forest fires dynamics in Europe using the Community Land Model
- XY577 EGU2011-7184
Elisa Garcia-Hurtado, Jorge Pey, Esther Borrás, Andrés Alastuey, Xavier Querol, and V.Ramon Vallejo
 Determination of particle tracers released in forest fire events in the Mediterranean basin. Ayorburning experiment.
- XY578 EGU2011-9614
Jane Liu, David Tarasick, Mark Parrington, Paul Palmer, Huixia He, Kevin Strawbridge, and Tom Duck
 Observation of High Ozone From Canadian Boreal Forest Fires in 2010
- XY579 EGU2011-10524
Anatoly Prokushkin, Oleg Pokrovsky, and Jerome Viers
 Wildfire effects on stream hydrochemistry within the zone of continuous permafrost distribution in Central Siberia
- XY580 EGU2011-11273
Beatriz Monge-Sanz, Steve Arnold, and Sarah Monks
 Estimation of boreal fire emissions under future climate scenarios and their impacts on Arctic atmospheric composition
- XY581 EGU2011-11696
 Margarita Evtugina, Ana Patricia Fernandes, **Ana Calvo**, Teresa Nunes, Célia Alves, Luis Tarelho, and Ana Vicente
 Characterisation of emissions from wildfires in Portugal in summer 2010
- XY582 EGU2011-12635
Iryna Khlystova, Silvia Kloster, Alex Loew, and Christian Reick
 Integration of satellite burned area products into the land biosphere model JSBACH
- XY583 EGU2011-10782
Thomas Smith, Katherine Allen, Robert Marrs, Michael Harris, John Dold, and Martin Wooster
 Emissions of greenhouse gases and selected volatile organic compounds from UK moorland burning estimated using open-path FTIR spectrometry and burnt area measures.

NH7.3/ESSI22/SSS1.9 – Spatial and temporal patterns of wildfires: models, theory, and reality (co-organized) – Orals

Convener: Rosa Lasaponara | Co-Conveners: Luciano Telesca, Jesus San Miguel, Andrea Camia, Ricardo Trigo, Mário Pereira, Mike Wotton

Room: 2

Chairperson: Rosa Lasaponara, Andrea Camia

- 13:30–13:45 EGU2011-14159
Martin Wooster, Patrick Freeborn, Ronan Paugam, Gareth Roberts, Weidong Xu, Stefania Amici, and Tim Lynham
 Spectral Radiant Energy Emission Measurements of Vegetation Fires
- 13:45–14:00 EGU2011-13790
 Daniela Stroppiana, Mirco Boschetti, **Pietro Alessandro Brivio**, and Luigi Boschetti
 Mapping Areas Affected by Fires across Natural and Agricultural Ecosystems in Europe from Spectral Indices
- 14:00–14:15 EGU2011-12353
 Wilfrid Schroeder, **Louis Giglio**, Ivan Csiszar, Evan Ellicott, and Christopher Justice
 A look at 10 years of MODIS active fire data and the prospects for VIIRS
- 14:15–14:30 EGU2011-12734
Panagiota Papakosta, Sebastian Andreas Neuefeind, Steve Schaefer, and Daniel Straub
 A probabilistic model of the influence of weather, geography and humans on wildfire occurrences in the Mediterranean
- 14:30–14:45 EGU2011-4945
 Brian Lamb, **Natalie Wagenbrenner**, Jason Forthofer, Bret Butler, Kara Yedinak, Patrick O'Keefe, Dennis Finn, and Pete Robichaud
 Development and evaluation of high-resolution wind simulation tools to improve fire weather forecasts
- 14:45–15:00 EGU2011-9162
Lasse Loeffe, Francisco Lloret, and Anselm Rodrigo
 Non-linear response of European fire size to weather conditions
- Chairperson: Mario Pereira, Ricardo Trigo
- 15:30–15:45 EGU2011-14158
Gernot Ruecker, Dieter Oertel, Eckehard Lorenz, Winfried Halle, Thomas Terzibaschian, Anja Hoffmann, and Joachim Tiemann
 High Resolution Active Fire Monitoring for Global Change Analysis by FireBIRD
- 15:45–16:00 EGU2011-11187
Clemens Wastl, Christian Schunk, and Annette Menzel
 Climate change impact on meteorological forest fire danger in the Alpine Space
- 16:00–16:15 EGU2011-10500
Guillermo Rein
 Climate Feedbacks on Smouldering Earth: Enchantment of Moisture deficit and self-heating of fossil and pre-fossil soils
- 16:15–16:30 EGU2011-12378
 Stefan Doerr and **Richard Shakesby**
 Do common fire-severity estimation parameters really tell us much about landscape susceptibility to enhanced hydrogeomorphological response?
- 16:30–16:45 EGU2011-9078
Richard Dupont, Brad Pierce, John Worden, Johnathan Hair, Marta Fenn, Paul Hamer, Murali Natarajan and the ARCTAS Team
 Reconstructing ozone chemistry from Asian wild fires using models, satellite and aircraft measurements during the ARCTAS campaign
- 16:45–17:00 EGU2011-13996
Andrea Camia, Jesús San-Miguel-Ayanz, Lara Vilar del Hoyo, and Tracy Durrant Houston
 Spatial and temporal patterns of large forest fires in Europe

NH7.3/ESSI22/SSS1.9 – Spatial and temporal patterns of wildfires: models, theory, and reality (co-organized) –

Posters

Convener: Rosa Lasaponara | Co-Conveners: Luciano Telesca, Jesus San Miguel, Andrea Camia, Ricardo Trigo, Mário Pereira, Mike Wotton

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Mike Wotton, Jesus San-Miguel, Luciano Telesca

- XY584 EGU2011-341
Ioannis Athanasiou, Dionisios Kalivas, George P. Petropoulos, and Vasiliki Kollias
 An intercomparison of burnt area estimates from key operational products: results from the analysis of Greek wildland fires
- XY585 EGU2011-14153
Facundo Oddi and Luciana Ghermandi
 Spatial structure of *Fabiana imbricata* shrublands in the NW Patagonia

- XY586 EGU2011-1797
Silvia Merino-de-Miguel, Margarita Huesca, Alberto Setzer, Fabiano Morelli, Silvia de Jesús, and Federico González-Alonso
 Spatial-temporal comparison between MODIS Burned Area and Thermal Anomalies Products during 2008 in Brazil
- XY587 EGU2011-2726
 Julian Campo, **Vicente Andreu**, Eugenia Gimeno-García, Oscar Gonzalez-Pelayo, and Jose Luis Rubio
 Medium term changes in the structure and organic matter content of a Mediterranean Rendzic Leptosol affected by repeated fires of different severities
- XY588 EGU2011-6388
Fortunato De Santis, Rosa Lasaponara, Antonio Lanorte, and Tiziana Montesano
 Satellite based estimation of Aerosols from forest fire
- XY589 EGU2011-6396
Emilio Chuvieco
 Monitoring global burned area trends from European satellites: the ESA FIRE CCI Project
- XY590 EGU2011-8762
Antonio Lanorte, Tiziana Montesano, Fortunato De Santis, and Rosa Lasaponara
 Estimating burn severity and vegetation recovery using satellite MODIS data
- XY591 EGU2011-6801
Fortunato De Santis, Rosa Lasaponara, and Antonio Lanorte
 Integrating Remote Sensing, Topographic Factors and Outputs from Meteorological Models for Real-Time Forest Fire Danger Estimation
- XY592 EGU2011-7900
Fortunato De Santis, Rosa Lasaponara, and Antonio Lanorte
 Estimating effectiveness of spectral index for burned area mapping
- XY593 EGU2011-8799
Antonio Lanorte
 A comprehensive overview on the use of satellite remote sensing to characterize and map fuel types
- XY594 EGU2011-8208
Antonio Lanorte, Tiziana Montesano, Fortunato De Santis, and Rosa Lasaponara
 Analysis of persistence in time series of VEGETATION data for monitoring burned areas
- XY595 EGU2011-9909
Antonio Lanorte, Maria Danese, Beniamino Murgante, and Rosa Lasaponara
 Cluster Analysis for burned areas detection
- XY596 EGU2011-12706
Malik Amraoui, Carlos C.C. DaCamara, Teresa J. Calado, and Sofia L. Ermida
 Maps of risk of fire over Mediterranean Europe
- XY597 EGU2011-9936
Natalie Arndt, Harald Vacik, Alexander Arpacı, and Hartmut Gossow
 Mapping areas susceptible to forest fire along the wildland urban interface in selected regions of the mountain forests in Austria
- XY598 EGU2011-12615
Malik Amraoui, Margarida L.R. Liberato, Teresa J. Calado, Carlos C.C. DaCamara, Luis Pinto Coelho, and Ricardo M. Trigo
 The impact of meteorological conditions on fire activity in Mediterranean Europe
- XY599 EGU2011-13369
Stephan Seeling, Sascha Nink, and Henning Buddenbaum
 Supporting pre-fire planning and canopy fuel parameters estimation employing a forest information system and remote sensing data
- XY600 EGU2011-14001
Mário Pereira, Liliana Caramelo, and Ricardo Costa
 Fire regime in Portugal: exploratory, trend and variability analysis
- XY601 EGU2011-13993
 Luís Carvalheiro, Guilherme Chagas, Maria Orgaz, **Mário Pereira**, Liliana Caramelo, and Yoshiro Yamazaki
 Modelling forest fire weather risk in Continental Portugal
- XY602 EGU2011-13989
 Pedro Sousa, Ricardo Trigo, **Mário Pereira**, Célia Gouveia, and Liliana Caramelo
 Modelling forest fire weather risk in Continental Portugal
- XY603 EGU2011-13987
 Pedro Sousa, Ricardo Trigo, **Mário Pereira**, Célia Gouveia, and Liliana Caramelo
 Regionalising Iberia fire regimes and links with large-scale meteorological variability
- XY604 EGU2011-13931
 Nicolas Mari, **Giovanni Laneve**, Enrico Cadau, and Pablo Marzialetti
 Fire damage assessment in Sardinia: the use of ALOS/PALSAR data for the management post fire affects

- XY605 EGU2011-1494
Carmen D. Vega Orozco, Mikhaïl Kanevski, Marj Tonini, and Marco Conedera
Geostatistics for Forest Fires: from variography to geosimulations
- XY606 EGU2011-6707
Emmanuel Da Ponte-Canova, Cristina Vega-Garcia, and Jesus Peman
On the relationship between wildfires and reforestations in Spain from 1988 to 2008
- XY607 EGU2011-9659
hendri hendri and the Timothy LOH 2), ?Ram S.TIWAREE 2) and Khiam Jin LEE 2)?Han Soo LEE 3), and Takao YAMASHITA 3) Team
Towards an Integrated Fire Management Framework using Space-based Application in Asia and The Pacific
- XY608 EGU2011-9769
Christian Schunk, Bernhard Ruth, Michael Leuchner, Clemens Wastl, and Annette Menzel
Methods for the automated in-situ measurement of dead fine fuel moisture dynamics
- XY609 EGU2011-9470
Chris Eastaugh, Alexander Arpaci, and Harald Vacik
Methods of comparing fire danger indices
- XY610 EGU2011-6490
Stephen Clandillon and the Hervé Yesou (1) Team
GMES Emergency Response - Fire mapping experience within EO-based Rapid Mapping
- XY611 EGU2011-11992
Paolo Fiorucci, Luca Molini, and Antonio Parodi
Spatio-temporal relative humidity patterns and extreme wildfires in the Mediterranean

NH8.5 – Natural hazard impact on technological systems and urban areas – Orals

Convener: Elena Petrova | Co-Conveners: Elisabeth Krausmann, Maria Naranjo, Carla Arregoitia, Cecilia Tortajada

Room: 11

Chairperson: n.n.

- 10:30–10:45 EGU2011-1161
Elena Petrova
Accidents with oil releases in Russia: impact of natural hazards
- 10:45–11:15 EGU2011-12627
Christoph Kuells
Resilience of urban water supply systems to natural hazards and systemic risks
- 11:15–11:30 EGU2011-11435
Nina Frolova, Valery Larionov, and Jean Bonnin
Integrated risk assessment and management with information technology application
- 11:30–11:45 EGU2011-5885
Jeannette Sieber
Influence of extreme weather on electricity infrastructure and adaptation options - a GIS-based approach
- 11:45–12:00 EGU2011-5405
Tamás Lipovics, Sándor Czakó, and István Kelemen
Lessons learnt from the red sludge accident of 4 October 2010 in Ajka, Hungary
- 12:00–12:15 EGU2011-8149
Miranda Deda, Mattia Fiorini, Marco Massabò, and Roberto Rudari
A fugacity based approach to simulate pollutant fate and transport after floods

NH8.5 – Natural hazard impact on technological systems and urban areas – Posters

Convener: Elena Petrova | Co-Conveners: Elisabeth Krausmann, Maria Naranjo, Carla Arregoitia, Cecilia Tortajada

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY612 EGU2011-2520
Boyko Ranguelov
Nonlinearities in cost assessment of the natural hazards and some technological disasters mitigation techniques
- XY613 EGU2011-10617
Pavel Dobeš, Pavel Danihelka, Aleš Kožátko, and Pavel Hrdina
Proposal of the methodology for combined natural and technological risks identification and assesment
- XY614 EGU2011-13947
Valentina Burova, Vera Pyrchenko, and Alexey Petrasov
The Map of Social Risk of Russia Caused by Flooding, Hurricanes, Landslides, Mudflows, and Avalanches

- XY615 EGU2011-14066
Vera Pyrchenko and Valentina Burova
 Algorithm of Calculation of Individual and Social Risk from Hazardous Natural Processes based on The Danger's Degree Map and Databases
- XY616 EGU2011-13865
Sofia Gavrilova
 Spatial and temporal distribution of natural disasters in Russia (1990-2009) and their influence on technological disasters
- XY617 EGU2011-3035
Augusta-Diana Crisan, Alexandru Ozunu, Zoltan Torok, and Alexandru Vana
 Vulnerability of critical infrastructure to natural hazards. Case study: Fire at hexane tank park damaged by earthquake
- XY618 EGU2011-1284
Inna Balanyuk, Anatoly Dmitrievsky, Boris Baranov, and Olga Chaikina
 Geohazards Related with Engineering of Gas Pipelines in Gas Hydrate Fields of the Barents Sea
- XY619 EGU2011-6356
 Shan Wei and **Guo Ying**
 Analysis of Subgrade Instability of Heihe-Beian Highway K177 +100- K179 +300 of China
- XY620 EGU2011-10039
Elena Klimenko, Ludmila Kuksina, and Yaroslav Muravyev
 Lahar danger for Kliuchevskoy volcano massif (Kamchatka)
- XY621 EGU2011-10745
Aleš Kožátko, Pavel Danihelka, and Tomáš Mižánik
 The discharge plume determination by conductivity measurements in Northern Moravia rivers towards industrial pollution detection.
- XY622 EGU2011-11470
 Attila Anton, József Szabó, Csaba Gyuricza, Péter László, László Radimszki, Sándor Koós, Nikolett Uzinger, Annamária Laborczi, Zsófia Bakacsi, and **László Pásztor**
 Assessment of pedological impacts of Hungary's Red Mud Disaster
- XY623 EGU2011-13659
Alejandro Linayo
 Seismic microzoning applications for urban technological risk assessment in the city of Merida (Venezuela)
- XY624 EGU2011-14075
Galina Postolenko
 The River Valley Construction And Its Significance For Human Activity
- XY625 EGU2011-435
Carla Arregoitia
 Desalination and Natural Hazards
- XY626 EGU2011-10162
Maria Naranjo
 Climate change impact on hydraulic structures: Alcala de Henares and Mexico City
- XY627 EGU2011-670
carlos Uriarte Vega and carlos A.Robles
 The Problem of Water Treatment in Mexico City (Nezahualcoyotl)
- XY628 EGU2011-10777
Agustin F. Breña
 Monthly and annual dryness analysis in Mexico City
- XY629 EGU2011-2302
Chun-Ying Chiu, Jyr-Ching Hu, and Jihn-Sung Lai
 Reactivation of the Shanchiao Fault and its Implication to the Variation of Landforms in Taipei Basin
- XY630 EGU2011-421
Ojilve Ramon Medrano Perez
 Synergy water and energy to a natural disaster: a challenge of sustainability in large cities.

EOS03/GD1.8/NH9.4/SM1.10/TS1.10 – Science in tomorrow's classroom (co-organized) – Posters

Convener: Phil Smith | Co-Conveners: Stephen Macko, Angelo Camerlenghi, Annegret Schwarz, Jean-Luc Berenguer, Eve Arnold

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Angelo Camerlenghi, Phil Smith

- XL5 EGU2011-13672
Eve Arnold, Friedrich Barnikel, Jean-Luc Berenguer, Anita Bokwa, Angelo Camerlenghi, Francesca Cifelli, Francesca Funciello, Carlo Laj, Stephen Macko, Annegret Schwarz, Phil Smith, Herbert Summesberger and the Eve Arnold Team
 Geoscience Information For Teachers (GIFT) Workshops at the European Geoscience Union
- XL6 EGU2011-1044
Alain Sarkissian and Jan Borm
 International Master Arctic Studies at Versailles University
- XL7 EGU2011-1558
Roberto Greco
 1st edition in Europe of International Earth Science Olympiad
- XL8 EGU2011-2238
Carla Cardano and Ambra Boscaro
 Walking on a carpet of stars under the moonlight
- XL9 EGU2011-2309
Jean-Luc Berenguer, Françoise Courboulex, and Audrey Tocheport
 Tuned in to the Earth from the classroom with 'Sismos à l'Ecole'
- XL10 EGU2011-2319
Silvia Elisabeth Moraes
 Building interdisciplinary thinking through thematic projects
- XL11 EGU2011-2536
Antoni Cassany
 Biodiversity around us: El Saler (Valencia)
- XL12 EGU2011-3106
Pierluigi Stroppa
 Complexity pays
- XL13 EGU2011-3130
Fulvia Bradassi, Francesco Cumani, and Guido Bressan
 Ocean Acidification: a school experiment
- XL14 EGU2011-3137
Paul Denton and Aoife O'Mongain
 School Seismology Experiences in the UK
- XL15 EGU2011-3153
Dario Carrea, Marc-Henri Derron, and Michel Jaboyedoff
 Raising awareness of children for landslide hazard using analogical sand box simulation
- XL16 EGU2011-3251
Paul Pillot
 Crystallographic models make geology clear
- XL17 EGU2011-4087
Niklas Wästeby
 Research School for Teachers, an example from Sweden
- XL18 EGU2011-4108
Paola Arcaleni
 Amphibians extinction risk A new learning and teaching methodology to preserve Biodiversity
- XL19 EGU2011-4176
Filippo Camerlenghi, Lezzani Giacomo, and Pasquare' Federico Aligi
 Assessing the effectiveness of the GIFT Strategy: A BSc Dissertation on the 2010 Workshop
- XL20 EGU2011-4257
Sandrine Gayraud
 Oceanides Project - from Venus to Neptune, oceanographic buoys
- XL21 EGU2011-4427
Dandrey Guillaume
 The "Phylogen
- XL22 EGU2011-4856
Julie Boyle
 Practical Lessons Based on Seismology and Meteorology
- XL23 EGU2011-5725
Michaela Poppe, Andreas Zitek, Michael Stelzhammer, Bert Bredeweg, and Susanne Muhar
 How can we increase causal and structural system understanding in environmental science education? First evaluation results of a conceptual modelling software (DynaLearn) in Austria
- XL24 EGU2011-7427
Gerda Holzzapfel and Florin Florineth
 WASsERLEBEN - High school students, teachers, students and scientists together in action
- XL25 EGU2011-8260
Isabella Marini
 Ferments of Life: barley, saliva and the enzyme idea.

- XL26 EGU2011-8282
Isabella Marini
A segment of purine metabolism: an experimental tool for important biochemical concepts.
- XL27 EGU2011-8297
Isabella Marini
Stress response and evolution
- XL28 EGU2011-9083
Britta Bookhagen, Agnes Mair, and Gertrude Zulka-Schaller
Teaching Geosciences at the Childrens's University Vienna and the Vienna Natural History Museum
- XL29 EGU2011-9351
Simona Safarcikova
Microbiology in practice: Are there really any live and active bacteria cultures in yogurts?
- XL30 EGU2011-9355
Laurence Durand and **Aline Desmorat**
Darwin, the man who dared ! Science and history project
- XL31 EGU2011-9356
Giulia Realdon and Roberto Greco
Selection and preparation of a national team for International Earth Science Olympiads (IESO): the Italian case
- XL32 EGU2011-9399
Begoña Vendrell and Josep-Maria Gili
Bringing the Ocean closer: an example of how to bind Research and Education and Outreach
- XL33 EGU2011-9437
Nicole Lengert
Training Communication and Method Skills to Enrich Scientific Education
- XL34 EGU2011-9540
Bernadette Walter
BIOVALLEY- COLLEGE NETWORK (BCN): Trinational Network to Intensify the Teaching of Natural Science at Gymnasia Level in the trinational region near Basel
- XL35 EGU2011-9670
Stephen Macko, Michael Tuite, and Matthew O'Connell
Enhancing Oceanography understanding with the experiences of "Captive Oceans"
- XL36 EGU2011-10593
Francisco Lopes, Lúcia Dias, Ana Bonifácio, Gonçalo Corigo, Tomás Ramos, and Marcos Rodrigues
A didactic model of a mountain glacier
- XL37 EGU2011-10752
Julie Bénard
A charter about the good use of water made by 2 classes of 13 years old pupils
- XL38 EGU2011-11060
Elisabeth Einarsson
Geology in school
- XL39 EGU2011-11720
Luciano Massetti, Francesca Ugolini, and Antonio Raschi
Teaching climate effects on plant growth in primary schools of rural areas
- XL40 EGU2011-11869
Anca-Catalina Marian and Aura-Cecilia Harceaga
Puzzle Universe
- XL41 EGU2011-12344
Guillermo Meléndez, Georgia Fermeli, Julia Escorihuela, and **Amelia Calonge**
Defining geotopes as educational tools in Earth Sciences: their use, valuation and protection
- XL42 EGU2011-12417
Roberta Johnson, Ardis Herrold, Missy Holzer, and Michael Passow
New Collaborative Strategies for Bringing the Geosciences to Students, Teachers, and the Public: Progress and Opportunities from the National Earth Science Teachers Association and Windows to the Universe
- XL43 EGU2011-12596
Margarida Agostinho and Guadalupe Jacome
SEDEC - from a European project to a teachers training course
- XL44 EGU2011-12659
Jean Pennycook
Engaging the K-12 community in Adelie Penguin and climate change research using the internet to provide a virtual field trip to Cape Royds, Ross Island, Antarctica.
- XL45 EGU2011-12684
Tomas Miler and Jindriska Svobodova
Climate literacy for upper primary teachers

- XL46 EGU2011-12690
John Moore
To Observe the Earth and Visualize the Future
- XL47 EGU2011-12703
Buffy Cushman-Patz
GRUVEE Broad Impacts: Elements of a Successful Teacher at Sea Experience
- XL48 EGU2011-13178
Beatriz Oliveira and Raquel Costa
Portuguese "Teacher on Board"
- XL49 EGU2011-13184
frederique meunier
biodiversity: yesterday and today
- XL50 EGU2011-13189
Elisabeta Niculescu
Interdisciplinary teaching about crystals
- XL51 EGU2011-13249
Georgia Fermeli, Fritz Steininger, Guillermo Meléndez, Michael Dermitzakis, Amelia Calonge, Carolina D'Arpa, Carolina Di Patti, Anastasia Koutsouveli, Carlos Neto de Carvalho, and Joana Rodrigues
Geoschools - Teaching geosciences in secondary schools
- XL52 EGU2011-13487
Philippe Ailleris
Observed a mysterious aerial event that you can't explain? The UAP Observations Reporting Scheme as a tool for demystifying UFOs and stimulating interest in science
- XL53 EGU2011-13668
Laura Lukes
Combining virtual and real field environments using Google Earth to engage both teachers and students in polar science
- XL54 EGU2011-13950
Phil Smith and Carol Hince
The Teacher Scientist Network - best practice in local partnerships
- XL55 EGU2011-13953
Francisca Guerola and Alicia Miralles
Investigative project: Evolution
- XL56 EGU2011-14085
Costantina Cossu
Science CLIL - water and marine ecosystem

NH9.8 – Risk management in a changing world considering spatio-temporal variability – Orals

Convener: Christoph Aubrecht | Co-Conveners: Jean-Philippe Malet, Sérgio Freire, Sven Fuchs, Thomas Glade, Clemens Neuhold, Cees van Westen

Room: 2

Chairperson: C. Aubrecht, J.-P. Malet

- 08:30–08:45 EGU2011-11881
Paola Mercogliano, Emilia Damiano, Edoardo Bucchignani, and Lucio Olivares
Prediction of shallow landslides in pyroclastic soils due to climatic changes in the Mediterranean area
- 08:45–09:00 EGU2011-7960
Dan Balteanu, **Mihai Micu**, Viorel Chendes, Dana Micu, Mihaela Sima, and Carmen Dragota
Environmental change and natural hazards in Vrancea Seismic Region
- 09:00–09:15 EGU2011-5668
Monique Fort, Etienne Cossart, and Gilles Arnaud-Fassetta
Natural hazards, road development, increased vulnerability and risks in the Nepal Himalayas
- 09:15–09:30 EGU2011-4079
Marc Wieland, Massimiliano Pittore, Stefano Parolai, and Jochen Zschau
Rapid multi-scale assessment of seismic vulnerability: an integrated approach based on multi-source imaging
- 09:30–09:45 EGU2011-13693
Sergio Freire and Christoph Aubrecht
Advanced Tsunami Risk Assessment through Integration of Temporal Aspects in Population Exposure Modeling
- 09:45–10:00 EGU2011-5912
Leonardo Garrido
Incorporating Spatio-Temporal Variability in Earthquake Socio-Economic Impact Modeling
-

NH9.8 – Risk management in a changing world considering spatio-temporal variability – Posters

Convener: Christoph Aubrecht | Co-Conveners: Jean-Philippe Malet, Sérgio Freire, Sven Fuchs, Thomas Glade, Clemens Neuhold, Cees van Westen

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 13:30–15:00

Chairperson: S. Fuchs, C. Neuhold

- XY631 EGU2011-1255
Sven Fuchs, Sergey Sokratov, Yuri Seliverstov, Yulia Zaika, and Alexander Shnyparkov
Spatiotemporal avalanche risk modelling in heavily industrialised arctic regions
- XY632 EGU2011-2470
Toshihiro Osaragi
Spatiotemporal Distribution of Railroad Users with Difficulty in Returning Home after a Devastating Earthquake
- XY633 EGU2011-13239
Christoph Aubrecht, Sérgio Freire, Josef Fröhlich, Beatrice Rath, and Klaus Steinnocher
Time Dependency of Risk Governance Elements - Seeing Foresight and Prediction in a Disaster Management Context
- XY634 EGU2011-10928
Clemens Neuhold and Hans Peter Nachtnebel
Integrating regional development to flood risk assessment
- XY635 EGU2011-10979
Clemens Neuhold and Hans Peter Nachtnebel
Assessing prospective flood risk - case studies from Austria
- XY636 EGU2011-9990
Holger Cammerer and Annegret Thieken
Land use scenarios for flood risk analyses
- XY637 EGU2011-3162
Kalliopi Sapountzaki
Individual systems managing own (and others') vulnerability to hazards by means of resilience
- XY638 EGU2011-4240
José Manuel Marrero, Alicia García, Ángeles Llinares, and Ramón Ortiz
The Mitigation Effort Index (MEI). A new concept to assess the social and political factors in establishing risk levels. Application to volcanic risk.
- XY639 EGU2011-5538
Ting-Chi Tsao, Wen-Chun Lo, Chen-Yu Chen, Ching-Tung Cheng, and Shu-Yeong Chi
The Evaluation of Debris Flow Risk Management Effectiveness in Taiwan - Using F-N Curve as a Tool
- XY640 EGU2011-12896
Laura López, Sergio Acosta, Eduardo García-Ortega, José Luis Sánchez, and Andrés Merino
An evaluation of the social perception of meteorological risks in Castile-León
- XY641 EGU2011-3488
Yvonne Schaub, Wilfried Haeblerli, Christian Huggel, Matthias Künzler, and Michael Bründl
New lakes in de-glaciating alpine areas: addressing current and future risks from impulse waves due to rock/ice avalanches
- XY642 EGU2011-9974
Alexandre Remaitre and Jean-Philippe Malet
Assessing the influence of climate change on rainfall patterns associated to landslide and debris flow triggering in the South French Alps
- XY643 EGU2011-5600
Cees van Westen, Dinand Alkema, Janneke Ettema, and Sabine Maresch
CHANGES project: Changing Hydro-meteorological Risks - as Analyzed by a New Generation of European Scientists
- XY644 EGU2011-9841
Christoph C. Raible, Sabine Kleppek, Mark Wüest, David N. Bresch, Akio Kitoh, Hiroyuki Murakami, and Thomas F. Stocker
Atlantic Hurricanes and Associated Insurance Loss Potentials in Future Climate Scenarios
- XY645 EGU2011-9413
Michael Hagenlocher and Stefan Lang
A spatial meta-indicator for identifying and evaluating hotspots of climate-related drivers for conflict and migration in the Sahel
- XY646 EGU2011-8582
Christian Hoffmann
Vulnerability and climate change fitness in mountain areas - an investigation of hazard zone planning in the Autonomous Province Bolzano South Tyrol

NH9.12 – Novel approaches for combining social and natural science data sets in environmental research – Posters

Convener: Gemma Carr | Co-Conveners: Katie Oven, Carolina Roman, Louise Bracken, Amanda Lynch

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Gemma Carr, Louise Bracken

- XY647 EGU2011-2029
Tianduowa Zhu and Maurits Ertsen
New interdisciplinary approaches for understanding ancient irrigation
- XY648 EGU2011-2619
Vasileios Markantonis and Volker Meyer
A comprehensive methodological framework for valuating the intangible effects of the natural hazards.
- XY649 EGU2011-4796
Louise Bracken and Elizabeth Oughton
Issues of combining social and physical science methodologies
- XY650 EGU2011-6692
Christopher (Kit) Macleod
Lessons learned and future needs for integrative studies
- XY651 EGU2011-7702
Gemma Carr, Robert Potter, and Stephen Nortcliff
The benefits and challenges of an interdisciplinary approach for understanding soil sustainability hazards from irrigation with reclaimed water
- XY652 EGU2011-10106
Karen Sudmeier-Rieux, Stephanie Jaquet, Marc-Henri Derron, and Michel Jaboyedoff
New approach to an old problem: understanding coping strategies for reducing landslide risk in Central Nepal
- XY653 EGU2011-11290
Katie Oven, Nick Rosser, Samantha Jones, Alex Densmore, **Dave Petley**, Lena Dominelli, and Jonathan Rigg
Building rural resilience in seismically active regions: Combining local and outside knowledge for effective risk reduction
- XY654 EGU2011-11712
Jeremy Phillipson
Why social scientists should engage with natural scientists?
- XY655 EGU2011-11795
Corinna Lüthje, Mike Schäfer, and Jürgen Scheffran
Limits to the Anthropocene. What are the challenges and boundaries of science for the post-normal age?
- XY656 EGU2011-13509
Esther Julia Olaya, **Miguel Barrios**, Héctor Cárdenas, Henry Garzón, and Miguel Thomas
Assessing perception of debris flood risk in the village of Villa Restrepo, Colombia

Wednesday, 06 April

EOS04 – Contemporary Education in a Changing World (co-listed) – Orals

Convener: Ana Maria Tarquis | Co-Conveners: Edith Perrier, Ruth Falconer, Rosa Benito, Encarnación Taguas, Anne Gobin, Rosa María González-Tirados, EVA VIDAL VÁZQUEZ, Mauro Messerotti, Jose Carlos Gonzalez-Hidalgo

Room: 29

Chairperson: Jose Manuel Antón

- 13:30–13:45 EGU2011-5131
Rosa María González-Tirados and Silvia Medina
Experimental Learning Styles: Results in Engineering and Architecture
- 13:45–14:00 EGU2011-10281
John Isaacs, Ruth Falconer, Daniel Gilmour, and David Blackwood
Visualisation & Modelling for Stakeholder Education in Sustainable Water Treatment
- 14:00–14:15 EGU2011-5079
Leonor Rodríguez-Sinobas and Raul Sanchez Calvo
Encouraging the learning of hydraulic engineering subjects: methodological proposals and evaluation of preliminary results
- 14:15–14:30 EGU2011-13764
Janos Mika and Ilona Pajtók-Tari
Ideas and practices for education of and by climate change
- 14:30–14:45 EGU2011-6911
Rosa M. Benito, Juan C. Losada, Francisco J. Arranz, and Luis Seidel
Interactive methodology based in e-learning to help the engineering students to understand concepts and practices
- 14:45–15:00 EGU2011-2615
Martine Rutten
A POGIL-based approach to teaching engineering Hydrology
- Chairperson: Encarnación Taguas
- 15:30–15:45 EGU2011-2878
Michael Mayer
Improvement of sustainability in learning using a forum-based blended learning competition approach
- 15:45–16:00 EGU2011-11447
Jose María Del Alamo, Felix Cuadrado, Pedro Malagón, José Ignacio Fernandez Malagón, Rubén Trapero Burgos, and Rosa M. González-Tirados
Tutors of Final Project Degree Profile Analysis in Telecommunications
- 16:00–16:15 EGU2011-13206
Mauro Messerotti, Anna Gregorio, Alessandro Cuttin, Mario Fragiaco, Sergio Carrato, and The AtmoCube Development Team
AtmoCube: a nanosatellite project as an effective educational framework
- 16:15–16:30 EGU2011-9250
Jorge Paz-Ferreiro and Eva Vidal Vázquez
Geostatistics in Soil Sciences, Agronomy and Environmental Sciences
- 16:30–16:45 EGU2011-12129
Jenny Gilford, Ruth Falconer, Rebecca Wade, and Kenneth Scott-Brown
Promoting Interest in Soil Sustainability Issues Using Interactive Virtual Environments
- 16:45–17:00 EGU2011-13240
Cristina Aguilar, Encarnación Taguas, and María José Polo
Integration of ICT tools in an Engineering Postgraduate Master Program

EOS04 – Contemporary Education in a Changing World (co-listed) – Posters

Convener: Ana Maria Tarquis | Co-Conveners: Edith Perrier, Ruth Falconer, Rosa Benito, Encarnación Taguas, Anne Gobin, Rosa María González-Tirados, EVA VIDAL VÁZQUEZ, Mauro Messerotti, Jose Carlos Gonzalez-Hidalgo

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Rosa Maria Gonzalez-Tirados

- XL1 EGU2011-1626
Kakha Nadiradze and Nana Phirosmnashvili
Climate Change, Agriculture and Food Crisis and correlations

- XL2 EGU2011-9320
Heather Short
Positive feedbacks: using simple systems diagrams, the Himalayas, and ice core oxygen isotope data to introduce first-year college students to the complexities of Earth's climate system
- XL3 EGU2011-13412
hossien sharifan
Investigation of Equations for Actual ET in Salinity Conditions(wet Climate)
- XL4 EGU2011-9832
María Angeles Mendiola and **Pedro Luis Aguado**
Implementation of one course in the Open Course Ware from of Polithecnic Universisy of Madrid, Spain. (OCW-UPM)
- XL5 EGU2011-13306
M Dolores Redel Macías, Ramón Lara Raya, and **Encarnación Taguas**
Collaborative learning in electronic engineering
- XL6 EGU2011-13234
Gabriel Gascó, José Manuel Fidalgo, and Ana Méndez
Advances in the organic waste management: Links between research, society and education
- XL7 EGU2011-13325
hossien sharifan
Teaching Actual Evaluation of Tomato by Epan In Wet Climate
- XL8 EGU2011-13198
hossien sharifan
Evaluation of Salinity effect on Water Temperature In Wet Climate
- XL9 EGU2011-11509
Augusto Arce, Ana Maria Tarquis, Javier Caniego, Jesus Vazquez, Augusto Serrano, and Maria Carmen Cartagena
New Titles Implementation in the Framework of European Higher Education Area at E.T.S. Ingenieros Agrónomos of Madrid: Education Planning
- XL10 EGU2011-13763
Janos Mika, Ildiko Dobi, and Anett Ivady
Circulation conditions of strong heat island in Budapest, with applications in weather forecasting and climate impact studies
- XL11 EGU2011-12077
Jose M Anton, Juan B Grau, Ana M Tarquis, Rubén Moratiel, Silvia Medina, Fabregat Joaquin, Sánchez Elena, and Andina Diego
Survey and brain storming studies about machines, constructions, human and environmental risk consideration in the careers of the Universidad Politécnica of Madrid
- XL12 EGU2011-4651
Emilio Camacho, Sergio Castro, Alfonso García-Ferrer, Rosa Gallardo, Blanca Pizarro, and **Encarnación V. Taguas**
Inter-generational experiences for encouraging the students of the first course of Agronomist and Forestry Engineering degrees
- XL13 EGU2011-6090
Eva Vidal Vázquez and **Jorge Paz-Ferreiro**
The role of soil classification in basic soil science disciplines
- XL14 EGU2011-11931
Eva Vidal Vázquez, **Rafael Montanari**, and Jorge Paz-Ferreiro
Darwin's contribution to Soil Biology
- XL15 EGU2011-13612
María José Polo, Marta Egüen, and Cristina Aguilar
Content structure and program development in “Transport and mixing in fluid flow
- XL16 EGU2011-13815
Emilio Camacho, Sergio Castro, Alfonso García-Ferrer, Rosa Gallardo, Blanca Pizarro, and Encarnación Taguas
Exploring the "employability expectations"

NH1.6/HS12.8 – ICT-based hydrometeorology science and natural disaster societal impact assessment (co-organized) – Orals

Convener: Antonio Parodi | Co-Conveners: Andrea Clematis, George Craig, Dieter Kranzmueller, Nicola Rebor, Michael Schiffers

Room: 10

Chairperson: Dieter Kranzmueller

- 13:30–13:45 EGU2011-13730
Steven Newhouse
European E-Infrastructure to Support Environmental Science
- 13:45–14:00 EGU2011-2138
Stefano Nativi
Earth Sciences Multi-disciplinary Interoperability role in Distributed Research Infrastructures
- 14:00–14:15 EGU2011-8641
Antonio Plaza
High Performance Computing in Complex Environments: Applications to Hyperspectral Remote Sensing Data Analysis
- 14:15–14:30 EGU2011-8272
Philip Kershaw, Rachana Ananthakrishnan, Luca Cinquini, Estanislao Gonzalez, Dennis Heimbigner, and Bryan Lawrence
Access Control Architecture for the Earth System Grid Federation: Building an Infrastructure of Secured Data Access Services for the Climate Science Research Community
- 14:30–14:45 EGU2011-13780
Jim Freer and the EVOp Team
An Environmental Virtual Observatory pilot (EVOp) for integrated catchment science - A framework for demonstrating national scale modelling of hydrology and biogeochemistry
- 14:45–15:00 EGU2011-2136
Quillon Harpham, Geoff Pearce, Gordon Glasgow, and Adrian Harper
Fluid Earth - A Platform for Integrated Modelling Using the OpenMI Standard
Chairperson: Antonio Parodi
- 15:30–15:45 EGU2011-8914
Albrecht Weerts and Peter Gijsbers
Uptake of new technologies by operational hydrologic forecasting agencies
- 15:45–16:00 EGU2011-5312
Jeffery S. Horsburgh, David G. Tarboton, David R. Maidment, Ilya Zaslavsky, Daniel P. Ames, Jonathan L. Goodall, and Richard P. Hooper
Advancing A Services Oriented Architecture for Sharing Hydrologic Data
- 16:00–16:15 EGU2011-8853
Efi Foufoula-Georgiou, Paola Passalacqua, William E. Dietrich, and Dino Bellugi
Digital Earth: Advancing hydro-geomorphology and hazard prediction
- 16:15–16:30 EGU2011-13606
v. Chandrasekar and Masayuki Maki
Development of Distributed Sensing Infrastructure and Flood Monitoring Systems
- 16:30–16:45 EGU2011-13752
Tiziana Paccagnella, David Richardson, Douglas Schuster, Roger Swinbank, Zoltan Toth, and Steven Worley
TIGGE, TIGGE LAM and the GIFS
- 16:45–17:00 EGU2011-12350
Mathias Rotach, Marco Arpagaus, Manfred Dorninger, Christoph Hegg, Andrea Montani, and Roberto Ranzi
Uncertainty propagation for flood forecasting in the Alps: Different views and impacts from MAP D-PHASE

NH1.6/HS12.8 – ICT-based hydrometeorology science and natural disaster societal impact assessment (co-organized) – Posters

Convener: Antonio Parodi | Co-Conveners: Andrea Clematis, George Craig, Dieter Kranzmueller, Nicola Rebora, Michael Schiffers

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Nicola Rebora

- XY284 EGU2011-13738
Nanette Lomarda
Impact of weather on society: How to improve the utility of a weather forecast
- XY285 EGU2011-9309
Ole Einar Tveito, Christoph Frei and the EUMETGRID Team
EUMETGRID - harmonized gridded climate data for Europe.
- XY286 EGU2011-13080
Carmen de Jong
Linking ICT and Society in Early Warning and Adaptation to Hydrological Extremes in Mountains

- XY287 EGU2011-3341
Arnold Tafferner and Caroline Forster
WxFUSION
- XY288 EGU2011-13788
Evelyne Richard, Simon Fresnay, and Dominique Lambert
Sensitivity of precipitation forecasts to uncertainties in model physical parametrisation
- XY289 EGU2011-8580
Luis Garrote, Luis Mediero, Adriadna Chávez, Aitor Atencia, and María Carmen Llasat
Probabilistic simulation and data assimilation with deterministic rainfall-runoff models
- XY290 EGU2011-13806
Daniele D'Agostino and Frank Seinstra
High Performance Isosurface Extraction Implementations for Hydrometeorological Data Visualization
- XY291 EGU2011-13782
Luca Ferraris, Paola Pagliara, Angela Corina, Alessandro Burastero, Paolo Campanella, Marina Morando, Nicola Rebora, and Cosimo Versace
Dewetra, an ICT-based system for multi-risk forecasting, monitoring and prevention
- XY292 EGU2011-2002
Carlos López-Vázquez
Experiments on the asymptotic behavior for some geometric data conflation algorithms
- XY293 EGU2011-2685
João Santos, Solange Leite, Marcelo Fragoso, João Sousa, Margarida Reis, Sandra Correia, and Raiden
Project participants
Lightning activity in Portugal: RAIDEN project overview
- XY294 EGU2011-13733
Tatiana Bedrina, Alfonso Quarati, Andrea Clematis, Antonio Parodi, and Roberto Rudari
Using of mashup technology for Hydro-Meteorological Research.
- XY295 EGU2011-13791
Antonella Galizia and Carmen Coteló Queijo
Exploiting the FinisTerra supercomputer to improve the characterization of spatio-temporal predictability of severe weather events
- XY296 EGU2011-13784
Antonio Parodi, Dieter Kranzlmüller, Andrea Clematis, Michael Schiffers, Nicola Rebora, George Craig, Marina Morando, Eva Trasforini, Daniele D'Agostino and the DRIHMS Team
DRIHMS (Distributed Research Infrastructure for Hydro-Meteorology Study) project
- XY297 EGU2011-13330
Danut Mihon, Teodor Stefanut, Victor Bacu, Denisa Rodila, and **Dorian Gorgan**
Grid Based Environment Oriented Tools and Applications
- XY298 EGU2011-14053
James Barsby
Insight Publishers and ICT-based hydrometeorology science

HS2.11/NH1.14 – Hydrological extremes: from droughts to floods (co-organized) – Orals

Convener: Alberto Viglione | Co-Conveners: Jan Szolgay, Lena M. Tallaksen, Gregor Laaha

Room: 36

Chairperson: Alberto Viglione

- 08:30–09:00 EGU2011-10327
Thomas Kjeldsen
COST Action ES0901: European procedures for flood frequency estimation (FloodFreq)
- 09:00–09:15 EGU2011-5736
Olivier Payrastre, Eric Gaume, and Hervé Andrieu
Usefulness of historical information for flood frequency analyses: developments based on a case study and a Bayesian MCMC approach
- 09:15–09:30 EGU2011-4613
Magdalena Rogger, Jürgen Komma, Ralf Merz, Alberto Viglione, Robert Kimbauer, and Günter Blöschl
Step changes in the flood frequency curve - process controls
- 09:30–09:45 EGU2011-10517
Björn Guse, Attilio Castellarin, and Bruno Merz
Improving flood frequency analysis by integration of empirical and probabilistic regional envelope curves
- 09:45–10:00 EGU2011-1142
Yoann Aubert, Arnaud Patrick, and Pierre Ribstein
A regional method for the prediction of flood hazards in France

COFFEE BREAK

Chairperson: Gregor Laaha

- 10:30–11:00 EGU2011-9912
Lena M. Tallaksen and Henny A.J. van Lanen
 Droughts in Europe under current and future climate - initial results of the EU-funded WATCH project
- 11:00–11:15 EGU2011-6260
Gonzalo Sapriza, Jorge Jodar, and Jesus Carrera
 Hydrogeological drought characterization in semi-arid zones
- 11:15–11:30 EGU2011-3855
Luis Samaniego, Rohini Kumar, Matthias Zink, and Sabine Attinger
 Retrospective drought analysis over Germany during the last 60 yrs
- 11:30–11:45 EGU2011-12547
Anne Fleig, Lena Tallaksen, and Paul James
 Understanding trends and changes in European streamflow and drought: circulation vs precipitation and temperature changes
- 11:45–12:00 EGU2011-3199
Nadia Kitova, Jean-Philippe Vidal, Jean-Michel Soubeyrou, Eric Martin, and Christian Pagé
 Meteorological, agricultural and hydrological drought projections over France for the 21st century

HS2.11/NH1.14 – Hydrological extremes: from droughts to floods (co-organized) – Posters

Convener: Alberto Viglione | Co-Conveners: Jan Szolgay, Lena M. Tallaksen, Gregor Laaha

Hall A | Display Time 08:00–19:30

Author in Attendance: 15:30–17:00

Chairperson: Alberto Viglione

- A204 EGU2011-1298
Giuseppina Monacelli and Maria Carmela Galluccio
 Developing Tools for Hydrological Extremes Warning Systems
- A205 EGU2011-1904
Anne Van Loon, Olda Rakovec, and Henny Van Lanen
 Processes behind multi-year droughts in catchments with seasonal climate and storage
- A206 EGU2011-2584
Lisa Stewart, Dave Morris, David Jones, and Harry Gibson
 Progress in generalising a new model of rainfall depth-duration-frequency for the UK
- A207 EGU2011-3118
Marjolein van Huijgevoort, Gerald Corzo Perez, and Henny van Lanen
 Multi-model analysis of global droughts in the second part of the 20th century
- A208 EGU2011-3658
Elfride Lindner and Masato Kobiyama
 Proposal of Tank Moisture Index to predict floods and droughts in Peixe River watershed, Brazil
- A209 EGU2011-4530
Sven Kotlarski, Stefan Hagemann, Ralf Podzun, and Daniela Jacob
 The Elbe Flooding 2002 as seen by an extended regional climate model
- A210 EGU2011-4861
Ali S Akanda, Dinesh Prashar, and Shafiqul Islam
 Too Much Water, or Too Little Water? Droughts and Floods in the Ganges-Brahmaputra-Meghna Basin
- A211 EGU2011-5060
Dusan Trninic
 Contribution to the low streamflow hydrological analysis of the Sava River in Croatia
- A212 EGU2011-5496
Mihael Brenčič and Andrej Gosar
 Unexpected drying of the river bed after floods and weak earthquakes - case of the River Iška in the central Slovenia
- A213 EGU2011-6337
Rohini Kumar, Luis Samaniego, and Matthias Zink
 Investigation on extreme runoff characteristics in major German river basins
- A214 EGU2011-6778
 Arnaud Verstraete, Sebastien Gailliez, Eleonore Beckers, and **Aurore Degré**
 Statistical analysis of low-flow based on short time series. The case of Wallonia
- A215 EGU2011-6987
Dagmar Stojková
 Utilization of the local minimum method for assessment of groundwater runoff development and drought occurrence in Topla and Ondava River catchments, Eastern Slovakia

- A216 EGU2011-7696
Ageel Bushara, Mekonnen Gebremichael, Riccardo Rigon, and Tagreed Abdelrahim
Time series analysis of 44 years of daily-observed flows of the Nile River
- A217 EGU2011-8198
Mehmet C. Demirel and Martijn J. Booij
Low flow forecasting with a lead time of 14 days for navigation and energy supply in the Rhine River
- A218 EGU2011-9866
Benjamin Renard and the EXTRAFLO project Team
Comparing frequency analysis approaches: a data-based methodological framework.
- A219 EGU2011-12163
Giuseppe Rossi and Enrica Caporali
Regional statistical analysis of rivers low flow
- A220 EGU2011-13097
Gregor Laaha, Eric Sauquet, Hege Hisdal, Charles N. Kroll, Henny van Lanen, Lena M. Tallaksen, and Ross Woods
UNESCO-FRIEND's contribution to the PUB Benchmark Assessment Report on low flow estimation
- A221 EGU2011-13474
Chiara Bocci, Enrica Caporali, and Alessandra Petrucci
Understanding rainfall extreme values in Tuscany (Italy)
- A222 EGU2011-2114
Rudolf Brázdil, Ladislava ?ezní?ková, Hubert Valášek, Marek Havlí?ek, Petr Dobrovolný, Eva Soukalová, Tomáš ?ehánek, and Hana Skokanová
Fluctuations of floods of the River Morava (Czech Republic) in A.D. 1691-2009: interactions of natural and anthropogenic factors
- A223 EGU2011-4349
Chandra Kiran B Krishnamurthy, Christina Karamperidou, **Francesco Cioffi**, and Upmanu Lall
Space-time structure of extreme precipitation in Europe over the last century: a climate perspective.
- A224 EGU2011-5037
Cristina Andrade, João A. Santos, Joaquim G. Pinto, and João Corte-Real
The hydrological impacts and large-scale atmospheric dynamics of the 2009-10 wet winter in Portugal
- A225 EGU2011-6079
Barbara Kerek, Laszlo Kuti, and Tamas Muller
Agrogeological effects of drought vulnerability
- A226 EGU2011-6771
Pierre Brigode, Pietro Bernardara, Emmanuel Paquet, Joël Gailhard, Pierre Ribstein, and Ralf Merz
Complete application of the SCHADEX method on an Austrian catchment: extreme flood estimation on the Kamp river
- A227 EGU2011-6948
Miriam Fendekova, Marian Fendek, and Milos Gregor
Base flow drought index
- A228 EGU2011-6960
Andrej Machlica, Oliver Horvat, Milos Gregor, and Miriam Fendekova
Comparison of base flow estimation using two hydrological models and some hydrological programs in the terms of groundwater drought assessment
- A229 EGU2011-7972
Wai Kwok Wong, Stein Beldring, Torill Engen-Skaugen, Ingjerd Haddeland, and Hege Hisdal
Climate change effects on summer droughts in Norway
- A230 EGU2011-9722
Hironori Inomata, Kuniyoshi Takeuchi, and Kazuhiko Fukami
Comparison of MRI-AGCM precipitation outputs with observed precipitation as a basis for the prediction of future extreme precipitation in Asian region
- A231 EGU2011-9814
Lev Kuchment and Alexander Gelfan
Coupling of probabilistic and deterministic approaches for assessment of extreme flood risk
- A232 EGU2011-10410
Wojciech Jakubowski
Application of 3-dimensional copula in the estimation of low flow extremes
- A233 EGU2011-10417
Tamara Tokarczyk and Wiwiana Szali?ska
The concept of the operational drought hazard assessment scheme
- A234 EGU2011-10994
Nathalie Bertrand and Jan Polcher
Droughts in the Twentieth Century: Spatial and temporal patterns of Soil moisture variations at large surface scheme

- A235 EGU2011-12071
Clorinda Cortis, Montaldo Nicola, Saba Andrea, and Albertson John D
On the estimation of the design flood of the Rio Mogoro dam in Sardinia
- A236 EGU2011-13481
Jesús López and Félix Francés
Possible influence of large-scale climate indices on the variability of maximum streamflow in rivers of Peninsular Spain
- A237 EGU2011-563
Kwok Pan Chun, Howard S Wheeler, and Christian J Onof
Non-stationary extreme rainfall estimation for the UK
- A238 EGU2011-4151
Thierry Leviandier
A probabilistic definition of a characteristic duration of floods relevant for the transformation of rainfall distribution to flood distribution
- A239 EGU2011-5842
Chi Cong Nguyen, Eric Gaume, and Olivier Payrastre
Incorporation of information on extreme floods in regional flood frequency analyses: some methodological reflections.
- A240 EGU2011-6147
Laszlo Kuti and **Barbara Kerek**
The effect of aridity on the soil-parent material-groundwater system in the Danube-Tisza Interfluve
- A241 EGU2011-8038
Ignazio Giuntoli, Benjamin Renard, and Antoine Bard
Low flow trends in France: analysis of 236 undisturbed catchments over 40 years
- A242 EGU2011-11182
Jan Kocum, Bohumír Janský, Julius ?esák, and Jakub ?urda
Potential reduction of hydrological extremes in headwaters: case study of upper Vltava River basin, Czechia
- A243 EGU2011-12117
Francesco Laio
Linear estimation of design values

GMPV12/NH2.4 – Measuring and modelling of volcano eruption dynamics (including 2011 Robert Wilhelm Bunsen Medal Lecture) (co-organized) – Orals

Convener: Tim Druitt | Co-Conveners: Olgeir Sigmarsson, Donald B. Dingwell, Augusto Neri, Ulrich Kueppers, Fred Witham

Room: 20

Chairperson: F. Witham

- 08:30–08:45 EGU2011-2782
Hiroshi Shinohara
Volcanic degassing by conduit magma convection: Links and gaps to magmatic volatiles
- 08:45–09:00 EGU2011-4022
Frances Beckett, Mike Burton, Heidi Mader, Jeremy Phillips, Margherita Polacci, Alison Rust, and Fred Witham
Exchange flow experiments and implications for degassing processes at basaltic volcanoes
- 09:00–09:15 EGU2011-12680
Fred Witham, Jeremy Phillips, and Heidi Mader
Modelling Volcanic Melt Inclusions and Gas Compositions and Periodicities from Fluid Mechanical and Petrological Experiments
- 09:15–09:30 EGU2011-12727
Zachary Atlas, Jeffrey Ryan, and Jacqueline Dixon
Multi-stage degassing and volatile flux at Masaya Volcano, Nicaragua
- 09:30–09:45 EGU2011-5904
Elisabetta Del Bello, Edward W. Llewellyn, Jacopo Taddeucci, Piergiorgio Scarlato, and Steve J. Lane
Magma drainage around rising gas slugs and burst overpressure in Strombolian eruptions
- 09:45–10:00 EGU2011-8309
Mark Thomas and Jurgen Neuberg
Explaining multiple active seismic sources in ascending magma

COFFEE BREAK

Chairperson: T. Druitt

- 10:30–11:30 EGU2011-14176
Michael Manga and Josef Dufek
 Interactions between small scale processes and large scale dynamics in pyroclastic density currents
 (Robert Wilhelm Bunsen Medal Lecture)
- 11:30–11:45 EGU2011-9651
Alexander Belousov, Marina Belousova, Herman Patia, and Richard Hoblitt
 Deposits and dynamics of the 1951 pyroclastic density current of Mount Lamington, Papua New Guinea
- 11:45–12:00 EGU2011-2035
Bruno Cagnoli and Giovanni Paolo Romano
 Mobility of Pyroclastic Flows

LUNCH BREAK

Chairperson: A. Neri

- 13:30–13:45 EGU2011-11353
Chuck Connor, Koji Kiyosugi, Laura Connor, Sarah Kruse, Kaz Mannen, and Leah Courtland
 Correcting Bias in Tephra Fallout Hazard Estimates Using Numerical Simulations
- 13:45–14:00 EGU2011-13388
Freysteinn Sigmundsson, Magnús Tumi Gudmundsson, Thor Thordarson, Sigrún Hreinsdóttir, Sigurlaug Hjaltadóttir, Kristín Vogfjörð, Olgeir Sigmarsson, Þóra Árnadóttir, Andy Hooper, and Þórður Arason
 Pulsating activity during the 2010 summit eruption of Eyjafjallajökull: Correlation of eruptive style, plume height, deformation, seismicity, earthquake tremor and chemical evolution of eruptive products
- 14:00–14:15 EGU2011-12403
Claudia Spinetti, Sara Barsotti, M. Fabrizia Buongiorno, Luca Nannipieri, and Augusto Neri
 Simulating and observing Icelandic ash cloud movements toward Italy
- 14:15–14:30 EGU2011-3069
Matthew Scase, Peter Holland, and Jeremy Phillips
 Modelling unsteady volcanic eruption columns and vulcanian eruption columns
- 14:30–14:45 EGU2011-5050
Fidel Costa
 How to integrate petrology and magma process time scales with geophysical and geochemical volcano monitoring data?
- 14:45–15:00 EGU2011-12622
 Olgeir Sigmarsson and **Michel Condomines**
 Time scales of magma mingling during the 2010 eruption of Eyjafjallajökull, Iceland

Chairperson: U. Kueppers

- 15:30–15:45 EGU2011-13980
Bruce F Houghton, Lauren A Swavely, Don A Swanson, and Rebecca J Carey
 Volcanic ash from Halema'uma'u Kilauea in 2008: sensitive indicators of near surface process
- 15:45–16:00 EGU2011-5990
Jacopo Taddeucci, Piergiorgio Scarlato, Cristian Montanaro, Corrado Cimarelli, Elisabetta Del Bello, Carmela Freda, Daniele Andronico, Magnus Tumi Gudmundsson, and Donald Bruce Dingwell
 Aggregation control on ash sedimentation from the Eyjafjallajökull volcanic cloud: insights from field and laboratory high-speed imaging
- 16:00–16:15 EGU2011-12157
Kai-Uwe Hess, Ulrich Kueppers, Corrado Cimarelli, Donald Bruce Dingwell, David S Rickerby, and Paul Madden
 Volcanic Ash versus Turbine Ingestion Test Sands: Thermal Stability Experiments
- 16:15–16:30 EGU2011-9376
Orkun Ersoy, Erdal ?en, Gökhan At?c?, Erkan Aydar, ?lkan Tatar, and H.Hamdi Çelik
 Changing morphology of accretionary lapilli further from the source (Zelve eruption, Cappadocia-Central Anatolia, Turkey)
- 16:30–16:45 EGU2011-13395
Thorvaldur Thordarson, Tanya Jude-Eton, Björn Oddsson, and Magnús Guðmundsson
 Whole deposit grain size for the tephra of the 2004 Grímsvötn eruption, Iceland.
- 16:45–17:00 EGU2011-3634
David Jessop, Karim Kelfoun, Philippe Labazuy, Olivier Roche, and Anne Mangeney
 LiDAR derived morphology of the 1993 Lascar pyroclastic flow deposits: implications for flow dynamics and rheology

GMPV12/NH2.4 – Measuring and modelling of volcano eruption dynamics (including 2011 Robert Wilhelm Bunsen Medal Lecture) (co-organized) – Posters

Convener: Tim Druitt | Co-Conveners: Olgeir Sigmarsson, Donald B. Dingwell, Augusto Neri, Ulrich Kueppers, Fred Witham
Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: T. Druitt

- A156 EGU2011-2783
Hiroshi Shinohara and Hiroyuki Tanaka
 Conduit magma convection of a rhyolitic magma: Constraints from cosmic-ray muon radiography of Satsuma-Iwojima, Japan
- A157 EGU2011-3964
Nadezhda Ivanova and Melnik Oleg
 Magmatic convection in a volcano conduit.
- A158 EGU2011-13315
Jeremy Phillips and Julius Baghdadi
 Permeability Development in Volcanic Conduits during Persistent Degassing
- A159 EGU2011-13428
Jeremy Phillips and Fred Witham
 Magma Evolution due to Degassing and Circulation in Persistently-Active Volcanic Systems
- A160 EGU2011-4253
Benoit Cordonnier, Michael Manga, and Boris Kauss
 Dissection of crystal bearing melts rheology
- A161 EGU2011-4268
Alejandra Arciniiega-Ceballos, Miguel Alatorre-Ibarguengoitia, Bettina Scheu, Donald B Dingwell, and Hugo Delgado-Granados
 Source parameters of eruptions generated by rapid decompression of volcanic rocks
- A162 EGU2011-6225
Jacopo Taddeucci, Piergiorgio Scarlato, Miguel Alatorre-Ibargüengoitia and the GVS Team
 How much? How deep? How often? Parameterizing explosive gas release during Strombolian activity
- A163 EGU2011-6985
Elisabetta Del Bello, Jacopo Taddeucci, Piergiorgio Scarlato, Daniele Andronico, Corrado Cimarelli, and Carmela Freda
 High speed imaging of geysers as an analogue to Strombolian eruptions
- A164 EGU2011-10296
Rosanna Smith, Bettina Scheu, Yan Lavallee, Philip Benson, Sandra Karl, and Donald Dingwell
 Laboratory Studies of Volcanic Explosion Earthquakes
- A165 EGU2011-8574
Andrea Rizzo, Mauro Martelli, Alberto Renzulli, Filippo Ridolfi, and Alberto Rosciglione
 Noble gases signature of mantle beneath Stromboli (Aeolian Islands, Italy), as inferred from fluid inclusions investigation in mafic phenocrysts from HP-LP products and from ultramafic xenoliths
- A166 EGU2011-8586
Antonio Paonita, Antonio Caracausi, Mauro Martelli, and Andrea Rizzo
 Complex degassing processes at Mt Etna as inferred by the geochemistry of peripheral and crateric gas discharges
- A167 EGU2011-9028
Fred Witham, Jonathan Blundy, Priscille Lesne, Simon Kohn, Jacqueline Dixon, Sergey Churakov, Roman Botcharnikov, and Harald Behrens
 SolEx: A Model for COHSCI Fluid Solubilities and Exsolved Gases in Basalts
- A168 EGU2011-10220
Pietro Armienti, Cristina Perinelli, and Keith D. Putirka
 An empirical hygrometer for trachybasaltic melts: applications to the kinetics of magma ascent at Mt. Etna.
- A169 EGU2011-9085
Muriel Gerbault and Frederic Cappa
 Internal overpressure and bedrock fluid-pore pressure conditions for failure around an inflating magmatic chamber: insight from hydromechanical elasto-plastic models
- A170 EGU2011-1973
Guilhem Amin Douillet, Ulrich Kueppers, Daniel Alejandro Pacheco, Ève Tsang Hin Sun, Jean Letort, Tullio Ricci, and Donald Bruce Dingwell
 Comparison of pyroclastic dune bedforms from Tungurahua, Laacher See, Ubehebe, and Stromboli volcanoes.
- A171 EGU2011-7705
 Daniele Andronico, Piergiorgio Scarlato, Corrado Cimarelli, Elisabetta Del Bello, Carmela Freda, **Valeria Misiti**, and Jacopo Taddeucci
 Textural and compositional features of ash erupted between 18 and 22 May 2010 from Eyjafjallajökull

- A172 EGU2011-661
Emma Gatti, Hema Achyuthan, Adam J. Durant, Vishwas S. Kale, Saidin Mokhtar, and Clive Oppenheimer
Insights into the Toba Super-Eruption using SEM Analysis of Ash Deposits.
- A173 EGU2011-9440
Orkun Ersoy, Erdal ?en, Erkan Aydar, H.Evren Çubukçu, ?nan Ulusoy, Asl?han Ançel, Murat Çiftlikli, and Gökhan ?en
Eruption and emplacement dynamics of a cinder cone named Karniyarik Tepe in Cappadocia region (Turkey).
- A174 EGU2011-9785
Pierre Delmelle, Paul Ayris, Sam Shutkever, and Don Dingwell
SO₂ and HCl scavenging by ash at high temperature in volcanic eruption plumes: insights from laboratory experiments
- A175 EGU2011-12230
Fabien Albino, Virginie Pinel, H el ene Massol, and Marielle Collombet
Conditions for detection of ground deformation induced by conduit flow
- A176 EGU2011-11999
Ulrich Kueppers, Bernhard Auer, Corrado Cimarelli, Teresa Scolamacchia, and Donald Bruce Dingwell
Experimentally constraining the boundary conditions for volcanic ash aggregation
- A177 EGU2011-6365
Tim Druitt, Etienne Deloule, Fidel Costa, Mike Dungan, and Bruno Scaillet
Reservoir growth through mixing of different silicic magma batches prior to the Minoan eruption of Santorini

NH3.5 – Advanced methods in landslides research II: modelling – Orals

Convener: Giulio G.R. Iovine | Co-Conveners: Denis Cohen

Room: 1

Chairperson: G. Iovine and D. Cohen

- 08:30–08:45 EGU2011-3127
Dave Milledge, Vaughan Griffiths, Jeff Warburton, and Stuart Lane
Can we use the infinite slope model within catchment scale landslide models given its landslide length assumption?
- 08:45–09:00 EGU2011-12758
Zhina Liu and Hemin Koyi
Monitoring internal deformation of unstable cohesionless slopes: insights from DEM modeling
- 09:00–09:15 EGU2011-8803
Peter Lehmann and Dani Or
Emergence of power law for frequency-magnitude statistics of shallow landslides based on Self-Organized Criticality hydro-mechanical model
- 09:15–09:30 EGU2011-2060
Natan Micheletti, Loris Foresti, Mikhail Kanevski, Andrea Pedrazzini, and Michel Jaboyedoff
Landslide Susceptibility Mapping Using Adaptive Support Vector Machines and Feature Selection
- 09:30–10:00 EGU2011-4205
Shiva P. Pudasaini
A General Two-Fluid Debris Flow Model

NH3.5 – Advanced methods in landslides research II: modelling – Posters

Convener: Giulio G.R. Iovine | Co-Conveners: Denis Cohen

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: G. Iovine and D. Cohen

- XY299 EGU2011-63
Mohamed Mastere, Brigitte Van Vliet - Lano e, and Lahsen Ait Brahim
Mass Movements Susceptibility Assessment Using a “Logistic Regression
- XY300 EGU2011-900
Diana Salciarini, Claudio Tamagnini, and Pietro Conversini
A simplified approach for rainfall-induced shallow landslide and debris flow hazard assessment
- XY301 EGU2011-1532
Valentina Svalova
Modeling and Monitoring for Landslide Processes
- XY302 EGU2011-2364
Deniz Oz, Ugur Dogan, Semih Ergintav, and Alpay Belgen
Monitoring of Landslide Deformation with GPS and Kalman Filter in Avcilar District of Istanbul, Turkey

- XY303 EGU2011-3026
Longchamp Céline, Derron Marc-Henri, and Jaboyedoff Michel
Preliminary results of laboratory experiments on substratum roughness, grain size and volume influence on the motion and spreading of large rock avalanches
- XY304 EGU2011-5313
Antonio Carlos Colangelo
Integrated magnitude-frequency analysis of real mass movements with synthetic prototypes generated by slope stability simulator
- XY305 EGU2011-7234
Karim Kelfoun
Suitability of simple rheological laws for the numerical simulation of long-runout volcanic avalanches
- XY306 EGU2011-8404
Emilia Damiano, Lucio Olivares, Roberto Greco, and Vincenzo Savastano
I-MOD3D: an integrated tool for hydrologic and stability analysis of steep-slopes in shallow pyroclastic deposits
- XY307 EGU2011-8986
Robert Marschallinger and Michael M \ddot{o} lk
The Hornbergl-Rockslide: 25 years of Monitoring - Space-Time Geostatistics and Visualization of Results
- XY308 EGU2011-9875
Mads-Peter J Dahl, Peter Gauer, Lis E Mortensen, Niels H Jensen, and Anita Veihe
Numerical runout-simulation of small debris avalanches in the Faroe Islands by use of DAN3D
- XY309 EGU2011-10817
Denis Cohen, Gernot Michlmayr, and Dani Or
Grain-scale Precursor Events during Shallow Landslide Initiation using a Stick-Slip Fiber Bundle Model
- XY310 EGU2011-10863
Dario Carrea, Antonio Abellan, Marc-Henri Derron, Jacques Bechet, Julien Duc, and Michel Jaboyedoff
Analogical sand box simulations for detection of prefailure deformation with 3D Digitizer
- XY311 EGU2011-10903
Anna Scotto di Santolo and Lorenza Evangelista
Theoretical interpretation of behaviour of a new rheometer for mud and debris flows
- XY312 EGU2011-11324
Cristina Lira and the Instituto Superior T \acute{e} cnico Team
Landslide shape modeling from field cartography
- XY313 EGU2011-13265
Ionut Cosmin Sandric, Bogdan Mihai, Zenaida Chitu, and Ionut Savulescu
Satellite time series analysis for landslide hazard assessment. A case study in the Breaza administrative, Prahova County, Romania

NH3.6 – Landslide hazard and risk assessment, and landslide management – Orals

Convener: Paola Reichenbach | Co-Conveners: Fausto Guzzetti, Andreas G \ddot{u} nther

Room: 1

Chairperson: Andreas G \ddot{u} nther

- 13:30–13:45 EGU2011-6840
Marie Guns and Veerle Vanacker
Land cover trajectories and their impact on slope stability in the Ecuadorian Andes
- 13:45–14:00 EGU2011-10205
Jan Klimes, Paola Reichenbach, and Mauro Rossi
Landslide occurrence frequencies and susceptibility assessment, Machu Picchu, Peru
- 14:00–14:15 EGU2011-12847
Severine Bilgot and Aurele Parriaux
Coupling 3D GIS-based modelling and field methods to evaluate landslide hazard predisposition
- 14:15–14:30 EGU2011-13291
Manuel Vasconcelos and Fernando Marques
Landslide hazard assessment in urban areas - a case study in Lisbon County (Portugal)
- 14:30–14:45 EGU2011-6408
Marco Amanti, Valerio Vitale, and Alessandro Troccoli
Landslide hazard in Roman Urban Area
- 14:45–15:00 EGU2011-10260
Paolo Frattini, Giovanni Battista Crosta, Federico Agliardi, and Serena Lari
Probabilistic Rockfall Hazard Analysis

Chairperson: Paola Reichenbach

15:30–17:00 **Poster Discussion**

NH3.6 – Landslide hazard and risk assessment, and landslide management – Posters

Convener: Paola Reichenbach | Co-Conveners: Fausto Guzzetti, Andreas Günther

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY314 EGU2011-13557
Lucia Silva, João Araújo, and **Nelson Fernandes**
The Effects of Vegetation Changes in the Spatial Distribution of Landslides in Southern Brazil
- XY315 EGU2011-10231
Jan Blahut, Clemens Pfurtscheller, and Jan Klimes
Estimation of losses from landslides - a review of current approaches
- XY316 EGU2011-5118
Cristina Henriques and José Luís Zêzere
Landslide inventories and susceptibility evaluation: a comparison between aerial-photo interpretation and field survey data
- XY317 EGU2011-11788
Mathieu Fressard, Yannick Thiery, and Olivier Maquaire
Landslide susceptibility assessment by logistic regression in the Pays d'Auge plateau (Normandy, France): improvement of a procedure in a hilly valley context
- XY318 EGU2011-11862
Tamar Tsamalashvili, Mathieu Fressard, Genadi Tvauri, Yannick Thiery, Olivier Maquaire, and Tamaz Chelize
Landslide susceptibility mapping at large scale over Georgia using heuristic model
- XY319 EGU2011-10073
Meei-Ling Lin and **Sheng-Chi Lin**
Using conditional probability method for estimation of landslide occurrence probability
- XY320 EGU2011-4742
Aldina Piedade, José Luís Zêzere, Cristina Henriques, Pedro Sevinate Pinto, Susana Pereira, and Raquel Melo
Assessment and validation of landslide susceptibility in different geomorphological environments in Portugal
- XY321 EGU2011-4655
Clémence Guillard and José Luis Zêzere
Landslide susceptibility assessment and validation in the framework of municipal planning. A case study in the area north of Lisbon (Portugal)
- XY322 EGU2011-6155
Helene Petschko, Rainer Bell, Alexander Brenning, and Thomas Glade
Modelling landslide susceptibility in large and heterogeneous regions with generalised additive models: case study Lower Austria
- XY323 EGU2011-12594
Maria Pereira and the Instituto Superior Técnico Team
Analysis of factors potentially triggering and/or constraining landslides occurring during the floods of February 20th, 2010 in Madeira Island
- XY324 EGU2011-3306
Nils Tilch and Leonhard Schwarz
Spatial and scale-dependent variability in data quality and their influence on susceptibility maps for gravitational mass movements in soil, modelled by heuristic method
- XY325 EGU2011-4831
Yvonne Martin, Darren Sjogren, Les Jagielko, and Edward Johnson
Scaling Issues and Discriminant Function Analysis of Landsliding for the Haida Gwaii, British Columbia, Canada
- XY326 EGU2011-13257
Rita Pimenta, Sérgio Oliveira, Fernando Marques, and José Luís Zêzere
Geological database improvement influence on physically based landslide susceptibility assessment at regional scale
- XY327 EGU2011-3654
Leonhard Schwarz and Nils Tilch
Why are good process data so important for the modelling of landslide susceptibility maps?
- XY328 EGU2011-2883
Roslan Majid
Slope inventory and hazard assessment along mountainous road using airborne laser scanning data and orthophotos in Peninsular Malaysia in 2010
- XY329 EGU2011-441
SungWook Park, HyuckJin Park, and TaeJeong Kang
Probabilistic analysis of rock slope stability using terrestrial LiDAR

- XY330 EGU2011-7543
Constantina Porumbescu and George Vina
Landslide hazard assessment on waste dumps areas in Romania Case study - Motru coal mine basin, Gorj County
- XY331 EGU2011-9700
Maria Kouli, Constantinos Loupasakis, Pantelis Soupios, and **Filippos Vallianatos**
Landslide hazard assessment and causal factor analysis in Chania Prefecture, Crete Island, Greece
- XY332 EGU2011-7553
Clément Michoud, Marc-Henri Derron, Pascal Horton, Andrien Queyrel, Michel Jaboyedoff, François-Joseph Baillifard, Alexandre Loye, Pierrick Nicolet, and Andrea Pedrazzini
New improvement of the Slope Angle Distribution approach in order to assess hazard and risk along roads exposed to rockfalls: example of the Bagnes valley, Swiss Alps.
- XY333 EGU2011-1409
Joan Torreadella, Joan Altimir, and Ivan Villaró
El Forn landslide (Andorra), an example of geological risk management in large sliding inhabited areas
- XY334 EGU2011-9327
Katharina Friess and Ulrich Ranke
Model for an assessment of lahar-endangered regions, to be applied in developing countries, based on expertise gained from the Mt. Rainier volcano (USA)
- XY335 EGU2011-2516
Jan Klimeš and **Jan Blahut**
Landslide risk assessment and its use in development planning, highlands of the Outer Western Carpathians, Czech Republic
- XY336 EGU2011-10766
Simone Sterlacchini, Jan Blahut, and **Simone Frigerio**
From risk assessment to disaster preparedness and response at a regional scale
- XY337 EGU2011-11934
Candide Lissak Borges, Olivier Maquaire, Anne Puissant, and Jean Philippe Malet
Landslide risk assessment and post-crisis management along the coast of Pays d'Auge, Normandy, France
- XY338 EGU2011-2065
Mario Floris, Francesca Bozzano, Andrea D'Alpaos, **Anna De Agostini**, Alfredo Rocca, Giovanni Stevan, Giulia Tessari, and Rinaldo Genevois
Landslides triggered by November 2010 flood in NE Italy: a starting point for forecasting modelling and engineering geology design of remote sensing monitoring.
- XY339 EGU2011-3078
Bruno Manfrè, **Michele Maugeri**, Ernesto Motta, and Erminia Raciti
Debris flows following heavy rainfalls occurred in Messina (Italy) on October 2009
- XY340 EGU2011-4390
Yasuhiro Shuin, Norifumi Hotta, Keigo Matsue, Kazuhiro Aruga, and Toshiaki Tasaka
Estimating landslide-triggering rainfall thresholds using two conceptual models for soil water and potential landslide area indices with 30 years of hourly rainfall data
- XY341 EGU2011-4133
Tien-Chien Chen, Xuan Jiang, Zhen-Yu Wang, and Xun-Yuan Zeng
Location and magnitude to earthquake and rainfall triggered landslide in Ai-Liao catchment, South Taiwan

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

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

Room: 26

Chairperson: n.n.

- 15:30–15:45 EGU2011-304
narges khajavi, mark quigley, kevin furlong, amir rezanejad, and tim davies
Ground-Motion Intensity Inferred From Uplift of Boulders and Rock Falls during the 2010 Darfield Earthquake, Port Hills, New Zealand
- 15:45–16:00 EGU2011-2252
Ingo Grevemeyer, Ernst Flueh, Ivonne Arroyo, and Anke Dannowski
Rupture zone of the Mw=8.8 2010 Maule earthquake constrained by aftershock seismicity and teleseismic moment tensor inversion of large aftershocks
- 16:00–16:15 EGU2011-4356
Kazuki Koketsu, Yusuke Yokota, Yasuyuki Kawazoe, Sunhe Yun, and **Satoko Oki**
Source process of the 2010 Yushu, China, earthquake in the eastern Tibetan plateau
- 16:15–16:30 EGU2011-8350
Stefano Lorito, Fabrizio Romano, Simone Atzori, Xiaopeng Tong, Antonio Avallone, John McCloskey, Massimo Cocco, Enzo Boschi, and Alessio Piatanesi
Limited overlap between the Darwin gap and co-seismic slip of the great 2010 Chile earthquake

- 16:30–16:45 EGU2011-9398
Jimin Lee, Wolfgang Friederich, and Thomas Meier
 Moment magnitude estimation of large earthquakes using source time function inversion in real-time
- 16:45–17:00 EGU2011-9512
Hermann M. Fritz, Jose C. Borrero, Bambang Suwargadi, Li LinLin, Qiu Qiang, Ignatius Ryan Pranantyo, Vassilis Skanavis, and Costas E. Synolakis
 Reconnaissance of the 25 October 2010 Mentawai Islands Tsunami in Indonesia
- 17:00–17:15 EGU2011-12772
Costas E. Synolakis, Hermann M. Fritz, Catherine M. Petroff, Robert Weiss, Patricio A. Catalan, Rodrigo Cienfuegos, Patricio Winckler, Nikos Kalligeris, Carl Ebeling, and Sergio Barrientos
 The Chile tsunami of 27 February 2010: Field survey and modeling

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

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

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY661 EGU2011-13095
 Dietrich Lange, **Frederik Tilmann**, Susan Beck, Andreas Rietbrock, Jean-Pierre Vilotte, Sergio Barrientos, Diana Comte, Klaus Bataille, Pascal Methe and the Chile Aftershocks Team
 Preliminary aftershock distributions of the 27 February 2010 Mw 8.8 Maule Earthquake from International Aftershock Survey data
- XY662 EGU2011-1826
Wen-Yen Chang, Ruey-Der Hwang, Tzu-Wei Lin, Jo-Pan Chang, and Hui-Nei Chuang
 Estimates of Source Parameters of the 2010 ML 6.4 JiaSian (Taiwan) Earthquake from Teleseismic P-wave Inversion
- XY663 EGU2011-2576
Yunus Emre Bulbul, Barbaros Cetiner, and Gülüm Tan?rcan
 Source Modelling of the 2010 Elazig / Turkey Earthquake
- XY664 EGU2011-2838
Won Young Yun and Sun-Cheon Park
 Early estimation of magnitude and moment tensor analysis of large regional earthquakes around the Korean peninsula
- XY665 EGU2011-2958
Yesim Cubuk, Seda Yolsal-Cevikbilen, and Tuncay Taymaz
 Source Parameters of March 8, 2010 Karakocan (Elazig, SE Turkey) Earthquakes: Synthesis of Time Domain Regional Moment Tensor and Teleseismic Body-Waves Inversions
- XY666 EGU2011-5617
 Frauke Klingelhoefer, Chao-Shing Lee, **Marc-Andre Gutscher**, Jing-Yi Lin, and Chin-Wei Liang
 The rupture zone of the Feb. 2010 M8.8 Maule Chile earthquake : preliminary relocation of aftershocks from a temporary marine seismic network and numerical modeling of forearc thermal structure
- XY667 EGU2011-6021
Kuo-Jen Chang, Rou-Fei Chen, Jian-Zhong Li, Yuping Liu, Chia-Yu Lu, and Chih-Tung Chen
 Preliminary analysis of active deformation in Chengdu foreland basin, China
- XY668 EGU2011-8845
Anne Deschamps, Bernard Mercier de Lépinay, Marie Paule Bouin, Julie Perrot, Frauke Klingelhoefer, Valérie Clouard, Philippe Charvis, Boris Marcaillou, and David Graindorge
 A new insight on the HAITI event : aftershock study.
- XY669 EGU2011-9088
Denis Lombardi, Thierry Camelbeeck, Thomas Lecocq, Giovanni Rapagnani, and Michel Van Camp
 Preliminary data analysis from a permanent seismic station newly installed in the Sør Rondane Mountains, East Antarctica
- XY670 EGU2011-10653
Muzli Muzli, Joachim Saul, Guenter Asch, Rongjiang Wang, and Frederik Tilmann
 Coseismic displacement of the 2010, Mw 7.8 Mentawai earthquake obtained from Strong Motion Data
- XY671 EGU2011-12780
Anke Dannowski, Ingo Grevemeyer, Ernst R. Flueh, Martin Thorwart, and Wolfgang Rabbel
 Crustal structure from teleseismic P-wave receiver function analysis in the Maule Region, Central Chile
- XY672 EGU2011-12170
Ivonne Arroyo, Ingo Grevemeyer, Ernst Flueh, Helene Kraft, Eduardo Moscoso, Diana Comte, Martin Thorwart, Yvonne Dzierma, and Wolfgang Rabbel
 3-D Velocity Structure and Seismotectonics prior to the 2010 Chile Earthquake (Mw 8.8) from an Amphibious Seismological Network

XY673 EGU2011-11303

frederick boudin, Sebastien Allgeyer, Pascal Bernard, H el ene H ebert, Manuel Olcay, and Raul Madariaga
Near Field data analysis of the Maule event by comparison between tide gauges, long base tiltmeters and
broad band seismometers.

NH5.3/NP7.3/OS2.5 – Nonlinear Dynamics of the Coastal Zone (co-organized) – Orals

Convener: Ira Didenkulova | Co-Conveners: Efim Pelinovsky

Room: 4

Chairperson: n.n.

13:30–13:45 EGU2011-3048

Geir Pedersen

Stationary runup patterns on a sloping beach

13:45–14:00 EGU2011-5389

Valery Liapidevskii

Shallow water equations for breaking surface waves

14:00–14:15 EGU2011-103

Ira Didenkulova and Efim Pelinovsky

Nonlinear wave evolution and runup in inclined channels

14:15–14:30 EGU2011-8891

Alec Torres-Freyermuth, Jack A. Puleo, Duvrabka Pokrajac, and Paulo Salles

RANS Modelling of Swash Zone Hydrodynamics

14:30–14:45 EGU2011-3200

Deepak Vatvani, Niels Zweers, Hans de Vries, Vladimir Makin, and Maarten van Ormondt

Storm surge and wave simulations in the Gulf of Mexico using a consistent drag relation for atmospheric
and storm surge models

14:45–15:00 EGU2011-1692

Eugene Morozov, Alexey Marchenko, and Sergey Muzylev

Supercooling and water structure near the fjord glacier

Chairperson: n.n.

15:30–15:45 EGU2011-13867

Chiang C. Mei, I-Chi Chan, Philip L.-F. Liu, Zhenhua Huang, and Weiguo Zhang

Long waves through emergent coastal vegetation

15:45–16:00 EGU2011-1935

Roger Grimshaw and Evans Osaisai

A simple model of the effect of bottom sediment transport on wave set-up

16:00–16:15 EGU2011-12030

Tatyana Lyubimova, Yanina Parshakova, Natalya Shumilova, Shengping Luo, and Bernard Roux

Modeling of the near-field distribution of pollutants from a multi-port coastal outfall

16:15–16:30 EGU2011-4680

Boris Katsnelson, Mohsen Badiey, and James Lynch

Observation of nonlinear internal waves in the Shallow Water 2006 experiment and interference of
low-frequency sound waves in the long-range propagation

16:30–16:45 EGU2011-11369

Yannis Cuypers, Pascale Bouruet Aubertot, Pascal Lazure, Antonio Louren o, Michel Lunven, Marc
Sourriceau, and Lourdes Velo-Suarez

Non linear internal tides, turbulent mixing and their impact on phytoplankton distribution in the continental
shelf of South Brittany

16:45–17:00 EGU2011-3551

Tim Boyd, **Mark Inall**, Dumont Estelle, and Griffiths Colin

AUV observations of mixing in the tidal outflow from a Scottish sea loch

NH5.3/NP7.3/OS2.5 – Nonlinear Dynamics of the Coastal Zone (co-organized) – Posters

Convener: Ira Didenkulova | Co-Conveners: Efim Pelinovsky

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Ira Didenkulova, Efim Pelinovsky

XY342 EGU2011-44

Ekaterina Shurgalina and Efim Pelinovsky

Formation of an abnormal wave in case of interaction with a vertical barrier

- XY343 EGU2011-4628
My Ha Dao, Eng Soon Chan, and Pavel Tkalic
Fine-scale processes of plunging wave in deep water
- XY344 EGU2011-8505
Erick Javier Lopez Sanchez and Gerardo Ruiz Chavarria
Numerical study of particle transport due to periodic movement of water in a system of two oceanic basins connected by a channel
- XY345 EGU2011-4279
Olga Shishkina
Linear and non-linear mechanisms of formation of edge internal waves in the shelf zone
- XY346 EGU2011-4865
Alexander Yankovsky, Legna Torres-Garcia, and Raymond Torres
Interaction of tides, river discharge and bathymetric forms in the Santee River, SC, USA
- XY347 EGU2011-12323
Anatoliy Filonov and Iryna Tereshchenko
The high amplitude internal waves generated at San Esteban sill in the Gulf of California
- XY348 EGU2011-62
Artem Rodin and Efim Pelinovsky
Large-amplitude simple and shock waves in shallow water
- XY349 EGU2011-5069
Onno Bokhove, Elena Gagarina, Anthony Thornton, Jaap van der Vegt, and Wout Zveers
Bore Soliton Splash
- XY350 EGU2011-830
Adrien Poupardin, Nicolas Bourneton, Grégory Pinon, Elie Rivoalen, Jérôme Brossard, and Gaële Perret
Vortex dynamics around an immersed structure
- XY351 EGU2011-105
Ira Didenkulova and Efim Pelinovsky
Long wave interaction with the sea wall in a basin of variable depth
- XY352 EGU2011-109
Irina Nikolkina, Ira Didenkulova, Efim Pelinovsky, and Narcisse Zahibo
Runup of landslide-generated waves
- XY353 EGU2011-5111
Petr Denissenko, Irina Didenkulova, Jonathan Pearson, and Efim Pelinovsky
Statistical characteristics of the non-linear run-up measured in a wave flume
- XY354 EGU2011-4484
Byung Ho Choi, Victor Kaistrenko, Efim Pelinovsky, Kyeong Ok Kim, and Byung Il Min
Combination of 2D numerical simulations of long waves in a basin of variable depth with 1D analytical runup formulae
- XY355 EGU2011-104
Ira Didenkulova, Efim Pelinovsky, Tarmo Soomere, Kevin Parnell, and Maija Viška
Beach response on the interplay of two wave systems: ship wakes and winds waves
- XY356 EGU2011-7894
claude Vella, François Demory, Victor Canut, Philippe Dussouillez, and Thomas Jules Fleury
First evidence of accumulation of mega boulders on the Mediterranean rocky coast of Provence (southern France).

NH5.4 – Coastal flooding and erosion risk: present and future – Orals

Convener: Fernando J. Mendez | Co-Conveners: Barbara Zanuttigh, Robert J. Nicholls

Room: 4

Chairperson: Fernando J. Mendez

- 08:30–08:45 EGU2011-7576
Sylvain Elineau, Anne Duperret, Pascal Mallet, and Rémi Caspar
Urban tidal flooding in Normandy (Le Havre, NW France)
- 08:45–09:00 EGU2011-5578
Debora Bellafiore, Christian Ferrarin, and Georg Umgiesser
Analysis of coastal hydrodynamic variations using modeling to assess climate changes on a local scale
- 09:00–09:15 EGU2011-10394
Siddharth Narayan, Susan Hanson, Robert Nicholls, and Derek Clarke
Use of the Source - Pathway - Receptor - Consequence Model in Coastal Flood Risk Assessment
- 09:15–09:30 EGU2011-13680
Fernando J. Mendez, Inigo J. Losada, Sonia Castanedo, Roberto Minguez, Raul Medina, Borja G. Reguero, and Cristina Izaguirre
Present and Future Coastal risk assessment

- 09:30–09:45 EGU2011-6741
Andrea Critto, Silvia Torresan, Alex Zabeo, Jonathan Rizzi, Valentina Gallina, Silvio Giove, and Antonio Marcomini
 DESYCO: a Decision Support System for the assessment of coastal flooding and erosion risk due to climate change
- 09:45–10:00 EGU2011-12548
Phoebe Koundouri, Bénédicte Rulleau, and Mavra Stithou
 Can Coastal Europe Insure Against Climate Change: A Review of Experiences on Floods and Soil Erosion.

NH5.4 – Coastal flooding and erosion risk: present and future – Posters

Convener: Fernando J. Mendez | Co-Conveners: Barbara Zanuttigh, Robert J. Nicholls

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Fernando J. Mendez

- XY357 EGU2011-1694
Barbara Zanuttigh, Luisa Perini, and Paolo Mazzoli
 Scenarios of combined river and sea water inundation along the Adriatic Coast
- XY358 EGU2011-6554
Victor Ntegeka, Patrick Willems, and Jaak Monbaliu
 Incorporating the correlation between upstream inland, downstream coastal and surface boundary conditions into climate scenarios for flood impact analysis along the river Scheldt
- XY359 EGU2011-1540
Li-Chung Wu, Dong-Jiing Doong, Yang-Ming Fan, and Chia Chuen Kao
 Information System for the Early Warning of Coastal Flooding
- XY360 EGU2011-13683
Melisa Menendez, Fernando J. Mendez, and Inigo J. Losada
 Short-term extrapolation of extreme sea level statistical distributions
- XY361 EGU2011-13682
Cristina Izaguirre, Paula Camus, Melisa Menendez, Fernando J. Mendez, and Inigo J. Losada
 Projection of extreme marine climate in coastal areas using statistical downscaling
- XY362 EGU2011-1221
J Javier Diez, Rosa Paz, M.Dolores Esteban, José-Santos López, and Vicente Negro
 Coastal urban flood resilience vs climate change
- XY363 EGU2011-3684
Enrique Peña and Luis Cea
 Baldaio lagoon hydrodynamics and flooding. Evolution of natural and shellfish production.
- XY364 EGU2011-12460
Amit Mushkin and Oded Katz
 LiDAR monitoring of coastal cliff geomorphic response to an extreme winter storm with comparison to the long term retreat rate of the cliff (Eastern Mediterranean Sea, Israel)
- XY365 EGU2011-4833
Sergey Lebedev
 Assimilation satellite altimetry data in flood wave propagation model of the Caspian Sea
- XY366 EGU2011-7096
 Marzenna Sztobryn, **Beata Kowalska**, Jacek Lendzion, and Arkadiusz Fabrycki
 Meteorological conditions of storm surges in Hel peninsula: past, present, future and impact on flooding vulnerability.
- XY367 EGU2011-8980
Gianluigi Di Paola, Ines Alberico, Pietro Aucelli, Gerardo Pappone, and Carmen Roskopf
 A new GIS based methodology to assess coastal vulnerability by using a Modified Coastal Vulnerability Index (MCVI)
- XY368 EGU2011-10025
Christian Breitung, Florian Haas, Tobias Heckmann, and Michael Becht
 Measuring Coastal Erosion on Moraine Cliffs of the Baltic Sea using Ground-Based LIDAR - Creating a disposition model of soft rock cliff erosion

NH5.5 – Storm Surges and coastal areas: extreme events, damages, and risk – Orals

Convener: Diego Rybski | Co-Conveners: Christoph Muddersbach, Jürgen Jensen, Jürgen Kropp

Room: 2

Chairperson: Dr. Diego Rybski

- 10:30–10:45 EGU2011-5351
Ivan Haigh, Matthew Eliot, and Charitha Pattiaratchi
Global influences of the 18.61 year lunar nodal cycle and 8.85 year cycle of lunar perigee on coastal flooding
- 10:45–11:00 EGU2011-11317
Iris Grabemann and Nikolaus Groll
Expected future changes in the joint distribution of storm surges and waves in the North Sea due to anthropogenic climate change
- 11:00–11:15 EGU2011-1758
Shishir Dube and Boram Lee
Problem of storm surges in the North Indian Ocean and plan for enhancing its forecasting capability
- 11:15–11:30 EGU2011-5616
Thomas Wahl and Jürgen Jensen
Assessing the hydrodynamic boundary conditions for integrated risk analyses along the German North Sea coastline
- 11:30–11:45 EGU2011-8605
Luis Costa, Manuel Meidinger, and Jürgen P. Kropp
Adaptive pathways in coastal systems for losses reduction due to storm surges and sea-level rise: The case of Ísafjörður, Iceland.
- 11:45–12:00 EGU2011-343
Markus Boettle, Diego Rybski, and Jürgen P. Kropp
A cost-benefit framework for adaptation to sea level rise

NH5.5 – Storm Surges and coastal areas: extreme events, damages, and risk – Posters

Convener: Diego Rybski | Co-Conveners: Christoph Mudersbach, Jürgen Jensen, Jürgen Kropp

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Dr. Christoph Mudersbach

- XY369 EGU2011-292
Justas Kazys, Donatas Pupienis, Edvinas Stonevicius, and Egidijus Rimkus
Storm surge on Lithuanian coasts: past experience and future perspectives
- XY370 EGU2011-3646
Volker Karius, Matthias Deicke, Alexander Michler, Alexandra Hilgers, and **Hilmar von Eynatten**
Sediment accumulation at Northern Germany's marsh islands - An evaluation of a natural adaptation mechanism to Holocene sea level rise
- XY371 EGU2011-4561
Michael Whitworth
The use of probabilistic techniques in the evaluation of storm surge hazard and risk.
- XY372 EGU2011-6854
Arne Arns, Hilmar von Eynatten, Roger Häußling, Dirk van Riesen, Holger Schüttrumpf, and Jürgen Jensen
Developing Sustainable Coastal Protection- and Management Strategies for Schleswig-Holstein's Halligen Considering Climate Changes (ZukunftHallig)
- XY373 EGU2011-7742
Camille André and Charlotte Vinchon
JOHANNA project: Analysis of insured and structural damages due to waves and storm surges hazards (storm Johanna 10-12 March 2008)
- XY374 EGU2011-13679
Rodrigo Pedreiros and the Vinchon Charlotte (1) Team
Using a multi models approach to assess coastal exposure to marine inundation within a global change context
- XY375 EGU2011-289
Diego Rybski, J. Micha Steinhäuser, and Jürgen P. Kropp
Identifying damage functions through density transformation
- XY376 EGU2011-7470
Kristina Sossidi and **Gabriele Gonnert**
Extreme storm surges. A method to calculate extreme events at the North Sea coast
- XY377 EGU2011-9790
Annette Schulte-Rentrop and Elisabeth Rudolph
Effects of climate change on storm surges in the Elbe Estuary - A sensitivity study
- XY378 EGU2011-10635
Andreas Burzel, Gehad Ujeyl, Andreas Kortenhaus, and Hocine Oumeraci
Integrated Risk Analysis for Extreme Storm Surges in GIS (XtremRisk)

- XY379 EGU2011-606
Mohamed Fathy Tawfeek Tayel and Hocine Oumeraci
Prediction of Extreme Storm Surge Levels using Recurrent Artificial Neural Networks.
- XY380 EGU2011-9177
Paul Liu and Uggo Pinho
Extreme waves in South Atlantic Ocean near Northeast Coast of Brazil
- XY381 EGU2011-13656
Nabil Ismail
Assessment of Recent Coastal Flooding in Alexandria and Future Outlook for the Nile Delta
- XY382 EGU2011-9843
Ole Baltazar Andersen, Per Knudsen, and Carlo Sørensen
Storm surges prediction and sea level rise along the Danish North Sea coast from tide gauges and satellite altimetry

NH8.4 – Sinkholes: from susceptibility to risk evaluation and mapping – Posters

Convener: Giulio G.R. Iovine | Co-Conveners: Mario Parise, Stefania Nisio

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: G. Iovine, S. Nisio

- XY383 EGU2011-1125
Damien Closson, Paolo Pasquali, Najib Abou Karaki, Nada Milisavljevic, Frédéric Hallot, Marc Acheroy, and Francesco Holecz
Dead Sea salt karst system dynamics measured with Insar PS and SBAS techniques
- XY384 EGU2011-3014
Georg Kaufmann, Douchko Romanov, Grit Jahn, and Julio Galindo de Guerreros
Geophysical exploration above cave sites: From measurements to model predictions
- XY385 EGU2011-3225
Mario Parise and Antonio Fiore
Chronology of sinkhole events in Apulia, Italy
- XY386 EGU2011-6242
Douchko Romanov, Georg Kaufmann, Thomas Hiller, Jannis Epting, and Peter Huggenberger
The impact of local rock properties on the karstification of aquifers close to dam sites: the case of a gypsum karst aquifer on the Birs river in Switzerland
- XY387 EGU2011-7789
Nadia Netti, Lucio Olivares, and Paola Mercogliano
Landslide risk management : a multidisciplinary approach to define a Decision Support System for rainfall induced landslides.
- XY388 EGU2011-7946
U?ur Do?an, **Mutlu Y?Imaz**, and Serdar Ye?ilyurt
Risk assessment of sinkhole hazard in Turkey
- XY389 EGU2011-9045
Valerio Baiocchi, Francesca Giannone, Loredana Liso, and Mario Vecchio
The survey of "Pozzo del Merro
- XY390 EGU2011-9415
Rocio Zúñiga-Lara, Gerardo Cifuentes-Nava, René Chávez-Segura, Andrés Tejero-Andrade, Esteban Hernández-Quintero, and Alicia Monzón
Near Surface Electrical Tomography to Detect Hazardous Areas in Guatemala City
- XY391 EGU2011-9421
Héctor Gil, Aránzazu Luzón, María Asunción Soriano, Óscar Pueyo, Antonio Pérez, and Andrés Pocoví
Pleistocene sinkholes and subsidence at the confluence of the Ebro and Jalón Rivers (central Ebro Basin, NE Spain).
- XY392 EGU2011-10909
Lisa Borgatti, Gilberto Bonaga, Guido Gottardi, Alberto Landuzzi, Gianfranco Marchi, and Luca Vittuari
Triggering and evolution of sinkholes in non-karst terrains. Examples from the Po Plain (Italy)
- XY393 EGU2011-13099
Vincenzo Minutolo and Paolo M. Guarino
Stability assessment of underground cavities and forecast of sinkhole dimensions by limit analysis and numerical modelling
- XY394 EGU2011-14141
Walter Wheeler, Jan Tveranger, Stein-Erik Lauritzen, Björn Heincke, Guiliana Rossi, Niklas Allroggen, and Simon Buckley
Architecture of a paleokarst breccia-pipe field, Carboniferous, Svalbard

NH10.1 – Modelling of dangerous phenomena, and innovative techniques for hazard evaluation and risk mitigation –

Orals

Convener: Giulio G.R. Iovine | Co-Conveners: Johannes Huebl, Michael Sheridan, Stefan Scheer, Christoph Aubrecht, Manuel Pastor, Thomas Glade, Farrokh Nadim

Room: 4

Chairperson: G. Iovine, C. Aubrecht

- 10:30–10:45 EGU2011-10973
Nina Frolova, Jean Bonnin, and Valery Larionov
Data for disaster risk assessment
- 10:45–11:00 EGU2011-11264
Michael Bründl
EconoMe - Instruments for Assessing the Benefit-Cost-Ratio of Mitigation Measures
- 11:00–11:15 EGU2011-241
Victor Stefanescu
Early warning system based on the history of disasters in a region
- 11:15–11:30 EGU2011-8186
André Henzen, Michael Franke, and Christoph Graf
The role of nowcasting products and meteorological data for improving debris flow prediction
- 11:30–11:45 EGU2011-9845
Aurelio Stoppini, Fabio Radicioni, and Raffaella Brigante
Integrated geomatic techniques for monitoring, study and control of a landslide in an urban area
- 11:45–12:00 EGU2011-8471
Jean Pascal Iannacone, Alessandro Corsini, Byron Quan Luna, and Francesco Ronchetti
Sensitivity analysis of rock avalanche's run-out simulation in Trafoi (South Tyrol, Italy)

NH10.1 – Modelling of dangerous phenomena, and innovative techniques for hazard evaluation and risk mitigation –

Posters

Convener: Giulio G.R. Iovine | Co-Conveners: Johannes Huebl, Michael Sheridan, Stefan Scheer, Christoph Aubrecht, Manuel Pastor, Thomas Glade, Farrokh Nadim

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 15:30–17:00

Chairperson: F. Nadim, M. Pastor

- XY395 EGU2011-1010
Oreste Terranova, Stefano L. Gariano, Pasquale Iaquinia, and **Giulio G.R. Iovine**
Forecasting the occurrence of rainfall-induced landslides by means of a self-adaptive model
- XY396 EGU2011-13392
Giulio G.R. Iovine, Stefano L. Gariano, Roberto Greco, Pasquale Iaquinia, Annamaria D. Pellegrino, and Oreste G. Terranova
Shallow landslide susceptibility in the "Costa Viola" mountain ridge (southern Calabria)
- XY397 EGU2011-1194
Konstantinos Karagiorgos, Michael Chiari, Gerda Schneider, and Sven Fuchs
The challenge of EU Flood Directive: preliminary flood risk assessment for flash floods in the catchment of Rafina, Greece
- XY398 EGU2011-1651
Sebastian Scheuer, Dagmar Haase, and Volker Meyer
Introducing a semantically-enabled, ontology-supported software tool for the multicriteria, multidimensional assessment of natural hazard risk
- XY399 EGU2011-1698
Giovanni Laneve, Fabrizio Ferrucci, and Fabrizio Battazza
Evaluation of the SIGRI forest fires monitoring system based on MSG/SEVIRI images
- XY400 EGU2011-2865
Daniela Ghica, Dan Corneliu Rau, and Constantin Ionescu
Design of an innovative seismic valve for automatic blocking of the natural gas and dangerous liquids leakage in case of strong earthquake
- XY401 EGU2011-2983
Ji-Shang Wang, Yi-Chao Zeng, Chyan-Deng Jan, and Cheng-Yu Chen
A method to develop the rainfall-based criteria for debris-flow warning for the area lacking data
- XY402 EGU2011-3579
Samuel Auclair, Xavier Goula, Jose-Antonio Jara, Yolanda Colom, Anne Lemoine, and Bastien Colas
Exploring the feasibility of an early warning system in a moderate seismicity context: case study of Pyrenees
- XY403 EGU2011-4221
Ryan Anderson and Hilmar Gudmundsson
Ice Shelf Calving Risks for Halley Research Station, Antarctica

- XY404 EGU2011-5394
Jochen Zschau, Paolo Gasparini, Hormoz Modaressi, and **Kevin Fleming**
MATRIX: Developing multi-hazard and multi-risk assessment methods for Europe
- XY405 EGU2011-8619
Stefan Kollarits, **Diethart Leber**, and Ingo Schnetzer
Linking hazard maps to contingency planning needs - the MONITOR II Continuous Situation Awareness System (CSA)
- XY406 EGU2011-9306
Melanie S. Kappes, Klemens Gruber, Simone Frigerio, and Thomas Glade
MultiRISK - a tool for coherent multi-hazard risk analyses
- XY407 EGU2011-9774
Alexandru Marmureanu, Constantin Ionescu, Bogdan Grecu, and Carmen Ortanza Cioflan
Vrancea earthquake early warning system upgrade
- XY408 EGU2011-10776
Marina Kechaidou, **Georgios Ch. Sirakoulis**, Emmanouil M. Scordilis, and Ioannis Karafyllidis
Modelling real earthquake activity with reverse engineering based on evolutionary computation methods
- XY409 EGU2011-10844
Sirma Stenzel and Kathrin Baumann-Stanzer
Modelling of accidental released hazardous gases for the elaboration of emergency plans
- XY410 EGU2011-10922
Thomas Fischer, Florian Haas, Otfried Baume, and Michael Becht
Modeling of debris flows on hillslopes and in channels in high alpine catchment areas of the Northern Tien Shan, South-East Kazakhstan
- XY411 EGU2011-10927
Anna Scotto di Santolo, Anna Maria Pellegrino, and Aldo Evangelista
A new rheometer for mud and debris flows
- XY412 EGU2011-10991
Robert Bishop
The Future of Climate and Geo-Science
- XY413 EGU2011-12301
Ioannis Matsangouras and Panagiotis T. Nastos
Design and proposal of the AHEWS (Atmospheric Hazards Early Warning System) related to the new Greek Regional Administrative structure
- XY414 EGU2011-13004
George Hloupis, Ilias Stavrakas, Alexandros Alexandridis, Kostas Moutzouris, and Dimos Triantis
Can open source electronics platforms be beneficial for early warning systems?
- XY415 EGU2011-13842
Gino Mirocle Crisci, Valeria Lupiano, Donato D'Ambrosio, Rocco Rongo, William Spataro, Maria Vittoria Avolio, and Salvatore Di Gregorio
High detailed debris flows hazard maps by a cellular automata approach
- XY416 EGU2011-13894
Elvira V. Perekhodtseva
On the forecasting of the dangerous rainfalls and floods at the territory of Europe and the forecasting of the drought over the central part of Russia in the Summer of 2010

EMRP11/GMPV30/NH10.5/TS2.8 – Rock Physics and Natural Hazards (co-organized) – Orals

Convener: Sergio Vinciguerra | Co-Conveners: Philip Benson, Daniel Faulkner, Giulio Di Toro

Room: 42

Chairperson: S. Vinciguerra; P. Benson

- 10:30–10:45 EGU2011-1907
Patrick Baud, Wei Zhu, Sergio Vinciguerra, and Teng-fong Wong
Brittle faulting and inelastic compaction in Alban Hills tuff: microstructural observations and micromechanical modeling
- 10:45–11:00 EGU2011-4812
Michael Heap, Andreas Laumann, Kai-Uwe Hess, Yan Lavallée, Patrick Baud, Philip Meredith, and Donald Dingwell
Chemical, physical and mechanical properties of tuffs from Campi Flegrei (Italy)
- 11:00–11:15 EGU2011-6510
Sergio Vinciguerra, Silvio Mollo, Paola Tuccimei, Michael Heap, Michele Soligo, Mauro Castelluccio, Piergiorgio Scarlato, and Donald Dingwell
Radon and thoron emission from high and low porosity rocks under increasing deformation: An experimental study

- 11:15–11:30 EGU2011-9526
William Hancock and Dion Weatherley
On the influence of Particle Shape in fault gouge simulations using the Discrete Element Method
- 11:30–11:45 EGU2011-9638
Tadashi Takano, Ken-ichiro Maki, Eriko Soma, Katsumi Hattori, and Takashi Maeda
Fundamentals of Microwave Detection in Association with Rock Fracture and Experimental Data for Various Rocks
- 11:45–12:00 EGU2011-13191
Thomas Mitchell, Michael Heap, Yan Lavallee, Takehiro Hirose, Donald Dingwell, Sergio Vinciguerra, Jörg Renner, and Andrea Cavallo
Frictional Melt Generated from Similar & Dissimilar Volcanic and Sedimentary Rocks.

EMRP11/GMPV30/NH10.5/TS2.8 – Rock Physics and Natural Hazards (co-organized) – Posters

Convener: Sergio Vinciguerra | Co-Conveners: Philip Benson, Daniel Faulkner, Giulio Di Toro

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: D. Faulkner; G. Di Toro

- A32 EGU2011-4285
Philip Benson, Michael Heap, Yan Lavallee, Patrick Selvadurai, Asher Flaws, Kai Hess, Burkhard Schillinger, and Donald Dingwell
Fracturing of volcanic edifices and dyking during magma ascent
- A33 EGU2011-4825
Linda Petrakova, Michael Heap, Yan Lavallée, Patrick Baud, and Donald Dingwell
Investigating the stability of the volcanic edifice at Volcán de Colima, Mexico
- A34 EGU2011-6749
Andrew Bell, Ian Main, Michael Heap, Patrick Baud, and Philip Meredith
Application of a mean-field model for brittle creep strain rates under finite loading conditions
- A35 EGU2011-7145
Pierre Gavrilenko and Chandrani Singh
Modelling the hydromechanical response in the neighbourhood of Koyna reservoir (India): Results of the initial filling period
- A36 EGU2011-7203
Sergio Vinciguerra, Michael Heap, Silvio Mollo, Yan Lavallée, Kai Hess, Donald Dingwell, Gianluca Iezzi, and Patrick Baud
Volcanic edifice weakening via thermal reactions
- A37 EGU2011-10139
Olivier Lengliné, Jean Schmittbuhl, Jean Elkhoury, Jean-Paul Ampuero, Renaud Toussaint, and Knut Jorgen Maloy
Interplay of seismic and aseismic deformation during brittle creep crack propagation
- A38 EGU2011-10209
Elizabeth Gaunt, Peter Sammonds, Rosanna Smith, Philip Meredith, and Christopher Kilburn
Volcanic dome stability; Permeability and fluid pressurisation of the Mount St Helens 2004-2008 lava dome complex
- A39 EGU2011-10450
Gianluca Gola, Vincenzo Pasquale, Paolo Chiozzi, and Massimo Verdoya
Appropriate mixing models to estimate thermal properties of clastic and chemical/biochemical rocks
- A40 EGU2011-14195
Charlotte Feneis, Bettina Scheu, Yan Lavallee, and Donald B. Dingwell
Effect of water saturation on the fragmentation threshold and tensile strength of rocks in volcanic environments
- A41 EGU2011-7831
Jean Sulem, Ioannis Stefanou, and Emmanuil Veveakis
Strain localization during rapid shearing of a saturated rock layer: Preferred instability wave length and shear band thickness

SC3/NH11.1 – [Short Course] Hydrodynamics of Tsunami Waves (co-organized) – Orals

Convener: Efim Pelinovsky

Room: 1

Chairperson: Efim Pelinovsky

- 10:30–12:00 EGU2011-1071
Efim Pelinovsky
Hydrodynamics of Tsunami Waves

Thursday, 07 April

BG5.1 – Integration of Environmental, Socio-Economic and Climatic Change Studies in Northern Eurasia (co-listed) – Orals

Convener: Pavel Groisman | Co-Conveners: Amber Soja, Alexey V. Eliseev, Chaba Mátyás

Room: 23

Chairperson: n.n.

- 08:30–08:45 EGU2011-5341
Evgeny Gordov, Vasily Bogomolov, Elena Genina, Igor Okladnikov, Tamara Shulgina, and Alexander Titov
 Characteristics of on-going changes of Siberia climate
- 08:45–09:00 EGU2011-12740
Eric Wood, Tara Troy, Ming Pan, Michael Rawlins, and Xiaogang Shi
 Documenting the uncertainty of the terrestrial water cycle across NESSPI and its effect on trend and attribution studies
- 09:00–09:15 EGU2011-4422
Olga Zolina, Clemens Simmer, and Sergey Gulev
 Extreme precipitation characteristics over Eurasian continent: uncertainties of estimation and climate variability
- 09:15–09:30 EGU2011-12523
Terry Callaghan, Stef Bokhorst, Ross Brown, Pavel Y. Groisman, Cecilia Johansson, Margareta Johansson, Niklas Labba, Vladimir Radionov, and Jan Åge Riseth
 Winter snow melt events in the Eurasian Arctic: consequences analysed from scientific and indigenous knowledge
- 09:30–09:45 EGU2011-3882
Reginald Muskett and Vladimir Romanovsky
 Permafrost Ecosystem Changes Across Eurasia and North America Using Multi-Satellite Measurements
- 09:45–10:00 EGU2011-9665
Vladimir Alexeev
 Tundra fires and sea ice in the Arctic

COFFEE BREAK

Chairperson: Csaba Mátyás, Alexey Eliseev

- 10:30–10:45 EGU2011-9564
Dennis Lettenmaier, Ted Bohn, Shamil Maksyutov, and Qianlai Zhuang
 Understanding the interaction of carbon and water budgets in the Eurasian Arctic
- 10:45–11:00 EGU2011-1515
Alexey V. Eliseev
 Uncertainty of climate and carbon cycle changes in North Eurasia due to uncertainty in values of terrestrial biota governing parameters
- 11:00–11:15 EGU2011-13014
Qianlai Zhuang, Jerry Melillo, David Kicklighter, John Reilly, Sergey Paltsev, Andrei Sokolov, Yongxia Cai, Anatoly Shvidenko, Nadejda Tchebakova, Andrey Sirin and the ,Anna Peregon and Guangsheng Zhou Team
 Changes of land use and land cover, biogeochemistry, and their feedbacks to climate in northern Eurasia
- 11:15–11:30 EGU2011-11686
Anatoly Shvidenko, Dmitry Schepaschenko, and Ian McCallum
 Productivity of Russian forests during recent decades (1960-2010s)
- 11:30–11:45 EGU2011-9646
Nadja Tchebakova, Elena Parfenova, Galina Lysanova, Evgeni Shvetsov, and Amber Soja
 An agroclimatic potential in southern Siberia in a changing climate during the XXI century
- 11:45–12:00 EGU2011-5582
Mikhail Yu. Arshinov and Boris D. Belan
 New particle formation events in the Siberian boreal zone

ESSI8 – Uncertainty in Environmental Data and Models (co-listed) – Orals

Convener: Dan Cornford | Co-Conveners: Stefano Nativi, Edzer Pebesma, Gerard Heuvelink

Room: 19

Chairperson: n.n.

- 13:30–13:45 EGU2011-13514
Sarah Cornell
Social perspectives on environmental risk and uncertainty
- 13:45–14:00 EGU2011-11580
Jon Olav Skøien, Grégoire Dubois, Phuong Truong, Dan Cornford, and Michael Shulz
Uncertainty propagation in assessing ecosystems similarities - an example application using eHabitat
- 14:00–14:15 EGU2011-5932
Kristin Vogel, Carsten Riggelsen, and Frank Scherbaum
Learning Ground Motion Models from Data using Bayesian Networks
- 14:15–14:30 EGU2011-7767
Johan deHaan, Maarten Sneep, and Pepijn Veefkind
Retrieval algorithms for TROPOMI - improving error estimates of retrieved quantities by using Optimal Estimation with explicit a priori data
- 14:30–14:45 EGU2011-1880
Lindsay Collins, Ken Carslaw, Graham Mann, Kirsty Pringle, and Dominick Spracklen
A systematic approach to computer model evaluation, using a global aerosol model
- 14:45–15:00 EGU2011-11001
Wouter Dorigo, Robert Parinussa, Klaus Scipal, Yi Liu, Richard de Jeu, and Wolfgang Wagner
Error characterisation of global active and passive microwave soil moisture data sets
- Chairperson: n.n.
- 15:30–15:45 EGU2011-9677
Heiko Mueller, Qing Liu, Quan Bai, Corne Kloppers, and Andrew Terhorst
Enabling Assessment and Propagation of Information Quality in the South Esk Hydrological Sensor Web
- 15:45–16:00 EGU2011-5384
Lucy Bastin, Matthew Williams, John Paul Gosling, Phuong Truong, Dan Cornford, Gerard Heuvelink, and Frederic Achard
Web Based Expert Elicitation of Uncertainties in Environmental Model Inputs
- 16:00–16:15 EGU2011-8339
Judith Versteegen, Floor van der Hilst, Derek Karsenberg, and André Faaij
Communicating Uncertainty in Spatial Decision Support Systems - a Case Study of Bioenergy-Crop Potentials in Mozambique
- 16:15–16:30 EGU2011-3230
Didier G. Leibovici, Amir Pourabdollah, and Mike Jackson
Meta-propagation of Uncertainties for Scientific Workflow Quality Management in Interoperable Spatial Data Infrastructures
- 16:30–16:45 EGU2011-10149
Siebert Kunz and Kym Watson
A Spatial Information Infrastructure for linking environmental and health data: the approach to information fusion including uncertainty handling in the EO2HEAVEN project
- 16:45–17:00 EGU2011-5554
Lydia E. Gerharz, Benjamin Proß, Christoph Stasch, and Edzer Pebesma
A Web-based Uncertainty-enabled Information System for Urban Air Quality Assessment

ESS18 – Uncertainty in Environmental Data and Models (co-listed) – Posters

Convener: Dan Cornford | Co-Conveners: Stefano Nativi, Edzer Pebesma, Gerard Heuvelink

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Dan Cornford

- XL199 EGU2011-769
Euan Macrae, Clare Bond, and Zoe Shipton
Quantification of uncertainty in geoscience interpretation: a statistical analysis of the factors that affect interpretational ability
- XL200 EGU2011-2965
Antonia K. Runge, Frank Scherbaum, and Carsten Riggelsen
Quantification of expert knowledge for PSHA using graphical tools
- XL201 EGU2011-2642
Christopher Moseley, Claus Döring, Bernd Ahrends, and Oleg Panferov
Uncertainties in regional climate scenarios data and their effect on results of impact models in forestry

- XL202 EGU2011-3372
Rachel Lowe, David Stephenson, Trevor Bailey, Tim Jupp, Richard Graham, and Adrian Tompkins
Communicating probabilistic climate-sensitive disease risk forecasts
- XL203 EGU2011-13186
Dan Cornford, Richard Jones, Alexis Boukouvalas, and Remi Barillec
Statistical Issues of Managing Uncertainties in Environmental Models
- XL204 EGU2011-13126
Dan Cornford, Edzer Pebesma, Stefano Nativi, Matthew Williams, Christoph Stasch, Richard Jones, and Lydia Gerharz
Realising the Uncertainty Enabled Model Web
- XL205 EGU2011-4077
Kerry Gallagher, Thomas Bodin, Malcolm Sambridge, Dominik Weiss, Malin Kylander, and David Large
Inference of abrupt changes in noisy data records using Bayesian transdimensional changepoint models
- XL206 EGU2011-5057
Matthias Vanmaercke, Jean Poesen, Faruk Ocakoglu, Mahmood Arabkhedri, and Maria Radoane
How long should we measure to obtain reliable average catchment sediment yields?
- XL207 EGU2011-11108
Mohamar Ouedraogo, **Aurore Degré**, Eléonore Beckers, and Charles Debouche
A methodology to assess the exactness of Stream Network modeling process on agricultural watersheds
- XL208 EGU2011-10893
Philipp Weihs and the actinicflux Team
The influence of the spatial resolution of topographic input data on the accuracy of 3-D UV actinic flux and irradiance calculations
- XL209 EGU2011-7018
Nadine Goris and Hendrik Elbern
Singular vector based uncertainties of initial values and emissions for the ZEPTEP-2 campaign
- XL210 EGU2011-2566
Maurice Cox, Alistair Forbes, Nigel Fox, Peter Harris, Graham Machin, and Michael de Podesta
Metrological issues in producing gridded temperature data sets
- XL211 EGU2011-9630
Greg Timms, Ben Howell, Paulo de Souza, Claire D'Este, Daniel Smith, Ross Atkins, and Chris Sharman
Automated Assessment and Visualisation of Measurement Uncertainties in a Low-Cost Marine Sensor Network
- XL212 EGU2011-7137
Richard Wartenburger, Alexander Stickler, and Stefan Brönnimann
Quality Control of Selected Historical Radiosonde Observations from 1948-1966
- XL213 EGU2011-8871
David Huard and Diane Chaumont
Bayesian uncertainty analysis of climatological changes in IDF curves
- XL214 EGU2011-7428
Nikos Gianniotis, Carsten Riggelsen, and Frank Scherbaum
Ensembles of Ground Motion Models
- XL215 EGU2011-9504
Anja Vrečko and Tomaž Podobnikar
Error Assessment of DEM generated from Contours

GI-10 – Electromagnetic sensing techniques and geophysical methods for critical and transport infrastructures monitoring and diagnostics (co-listed) – Orals

Convener: Jean Dumoulin | Co-Conveners: Francesco Soldovieri, Sven Nordebo, Lorenzo Bigagli

Room: 42

Chairperson: Jean Dumoulin and Sven Nordebo

15:30–15:33 **Session Introduction**

15:33–15:48 EGU2011-2510

Philipp Fürholz and Johannes Hugenschmidt

Towards an automated mobile GPR acquisition system for road and bridge monitoring

15:48–16:03 EGU2011-6878

Jan van der Kruk, Alexis Kalogeropoulos, Johannes Hugenschmidt, Sebastian Busch, and Kaspar Merz

Full-waveform inversion of ground penetrating radar data to assess chloride and moisture content in concrete

16:03–16:18 EGU2011-13534

Michele Manunta, Manuela Bonano, Riccardo Lanari, Maria Marsella, and Luca Paglia

The SBAS-DInSAR approach as a tool for monitoring millimetric displacements affecting infrastructures

- 16:18–16:33 EGU2011-6845
Jon Kristian Hagene and Magnus Pedersen Lohne
 Transport infrastructure surveillance: monitoring of land slides, quick clay, rock slides, avalanches and bridge oscillations using an optical displacement monitoring system.
- 16:33–16:48 EGU2011-13506
Rodolphe Averty and Jean Dumoulin
 Development of a low cost uncooled infrared system dedicated to long term monitoring of transport infrastructures
- 16:48–17:03 EGU2011-4546
Enzo Rizzo, Romeo Bernini, Francesco Soldovieri, Jean Damoulin, and Stefano Pignatti
 New sensing technologies to analyze engineering structures in a validation test site: Hydrogeosite laboratory
- 17:03–17:13 **Poster Session Introduction**
- 17:13–17:15 **Session Conclusions**

GI-10 – Electromagnetic sensing techniques and geophysical methods for critical and transport infrastructures monitoring and diagnostics (co-listed) – Posters

Convener: Jean Dumoulin | Co-Conveners: Francesco Soldovieri, Sven Nordebo, Lorenzo Bigagli

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Francesco Soldovieri and Lorenzo Bigagli

- A88 EGU2011-11392
Monica Proto, Francesco Soldovieri, Vincenzo Cuomo, Claudio Moroni and the ISTIMES Team
 The dissemination activities of the ISTIMES project
- A89 EGU2011-11659
Mattia Santoro, Fabrizio Papeschi, Enrico Boldrini, and Lorenzo Bigagli
 GI-axe - an ICT Solution for Sensor Data Processing
- A90 EGU2011-1742
Lev Eppelbaum, Leonid Alperovich, and Valery Zheludev
 Informational and wavelet methodologies for combined analysis of geophysical data within the ISTIMES project
- A91 EGU2011-4927
Sven Nordebo, Mats Gustafsson, and Francesco Soldovieri
 Tunnel detection based on data fusion with radio frequency and electrical resistive tomography
- A92 EGU2011-13407
Frederic Bourquin and Alexandre Nassiopoulos
 Accurate real-time reconstruction of three-dimensional temperature fields
- A93 EGU2011-2101
Giuseppe Schettini, M. Arshad Fiaz, Fabrizio Frezza, Lara Pajewski, Cristina Ponti, and Nicola Tedeschi
 Recent Advances in the Cylindrical-Wave Approach for Electromagnetic Scattering by Subsurface Targets
- A94 EGU2011-12395
 Gianfranco Fornaro, **Diego Reale**, Antonio Paucillo, Xiao Xiang Zhu, Richard Bamler, and Francesco Soldovieri
 Monitoring of Individual Ground Structures with Very High-Resolution Satellite Synthetic Aperture Radar: Results with the TerraSAR-X System
- A95 EGU2011-13415
Romeo Bernini, Aldo Minardo, Genni Testa, and Luigi Zeni
 Distributed fiber optic sensor for structural health monitoring of civil infrastructures
- A96 EGU2011-8365
Antonio Loperte, Francesco Soldovieri, Massimo Bavusi, Rosario Di Napoli, and Vincenzo Lapenna
 Application of Ground Penetrating Radar for monitoring the Acerenza dam (Basilicata Region, Southern Italy)
- A97 EGU2011-10848
Massimo Bavusi, Antonio Loperte, Vincenzo Lapenna, Francesco Soldovieri, Rosario Di Napoli, Felice Carlo Ponso, and Antonio Di Cesare
 Comparative processing approach for a 3D Ground Penetrating Radar survey at Musmeci bridge (Potenza, Italy).
- A98 EGU2011-11859
Massimo Bavusi, Antonio Loperte, Francesco Soldovieri, Rosario Di Napoli, Jean Dumoulin, Johannes Huginschmidt, and Philipp Fuerholz
 Impact shock damage assessment on a beam and its foundation soil by using Ground Penetrating Radar and Electrical Resistivity Tomography
- A99 EGU2011-1948
 Mario Marchetti, **Jean Dumoulin**, Laurent Ibos, Mathieu Moutton, and Stéphane Ludwig
 Infrared thermography applied to road networks winter risk evaluation

- A100 EGU2011-12420
Jean Dumoulin, Marion Bost, Erick Merliot, Laurent Dubois, Frédéric Rocher-Lacoste, Louis-Marie Cottineau, and Frédéric Bourquin
 Design, conception and realisation of high energetic mechanical impacts on a civil engineering structure to evaluate sensing techniques in ISTIMES project framework
- A101 EGU2011-9867
Simone Pascucci, Angelo Palombo, Cristiana Bassani, Rosa Maria Cavalli, Federico Santini, and Stefano Pignatti
 Integrated optical and thermal data analysis for a rapid surface diagnostic of transport infrastructures: the cement beam case study in Montagnole (France).
- A102 EGU2011-8076
Angela Perrone, Erick Merliot, Jean Dumoulin, and Francesco Soldovieri
 IBIS-S SAR system for the remote survey of an armed concrete beam: the experiment of Montagnole (French Alps) within ISTIMES project

GM6.1 – The geomorphic significance of mass wasting processes (co-listed) – Orals

Convener: Francesco Brardinoni | Co-Conveners: Oliver Korup

Room: 21

Chairperson: Francesco Brardinoni and Oliver Korup

- 13:30–13:45 EGU2011-3362
Benjamin van Wyk de Vries, Pablo Grosse, Engielle Paguican, Mahar Lagmay, Karine Bernard, and Matthieu Kervyn
 Volcanic morphology shaped by mass wasting processes: especially debris avalanches
- 13:45–14:00 EGU2011-4772
Philippe Schoeneich
 Impact of mass movements on valley shape and profile. Two examples from the Swiss Prealps and the Massif des Ecrins
- 14:00–14:15 EGU2011-8500
Georgie Bennett, Henri Eisenbeiss, Peter Molnar, Brian McArdeell, Fritz Schlunegger, and Paolo Burlando
 The Illgraben sediment cascade, 1963-2009
- 14:15–14:30 EGU2011-5162
Michi Strasser
 An underwater perspective on the significance of mass-movement processes
- 14:30–14:45 EGU2011-10202
Mads-Peter J Dahl, Lis E Mortensen, Niels H Jensen, and Anita Veihe
 Magnitude-frequency characteristics and preparatory factors for debris slide activity in the Northern Faroe Islands
- 14:45–15:00 EGU2011-5642
Thomas Dewez and Céline Cnudde
 Coastal cliff retreat rates: a probabilistic approach fed by Terrestrial Laser Scanner monitoring data

GM6.1 – The geomorphic significance of mass wasting processes (co-listed) – Posters

Convener: Francesco Brardinoni | Co-Conveners: Oliver Korup

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Francesco Brardinoni and Oliver Korup

- A116 EGU2011-1548
Sara Savi, Michelle Bollschweiler, Markus Stoffel, and Fritz Schlunegger
 From source to sink: analysis of debris flow events assessed by Dendro-geomorphology.
- A117 EGU2011-2525
Christoff Andermann, Richard Gloaguen, Stephane Bonnet, Alain Crave, and Silke Merchel
 Erosion patterns in the Nepal Himalayas from river gauging, cosmogenic nuclides and precipitation data
- A118 EGU2011-3352
Oldrich Navratil, Frédéric Liébault, Laigle Dominique, Bellot Hervé, Ravanat Xavier, Ousset Frédéric, Theule Joshua, Demirdjian Jean-Luc, Segel Vincent, and Ficquet Marc
 High-frequency monitoring of debris-flows and flash floods in the French Alps
- A119 EGU2011-4017
Federica Fiorucci, Michele Santangelo, Francesca Ardizzone, Alessandro Cesare Mondini, Dino Torri, and Fausto Guzzetti
 Geometry of gullies and shallow landslides obtained from VHR stereoscopic satellite images

- A120 EGU2011-12016
Sarah Doyle and Louis Scuderi
Remotely Identifying Geomorphic Processes on Alluvial Fans Using The Bidirectional Reflectance Distribution Function (BRDF)
- A121 EGU2011-11674
Michele Santangelo, Dario Gioia, Federica Fiorucci, Mauro Cardinali, Fausto Guzzetti, and Marcello Schiattarella
Relationships between mass movements and tectonic uplift in the upper Sinni River valley, Calabria-Lucania border, Southern Italy
- A122 EGU2011-11877
Mélanie Bertrand, Aurélie Carlin, Frédéric Liébault, and Hervé Piégay
Torrential susceptibility at a regional scale, Southern Alps (France)
- A123 EGU2011-5266
Ching-Ying Tsou, Masahiro Chigira, Yuki Matsushi, and Su-Chin Chen
The interactions of channel and hillslope process of Shihmen reservoir watershed, northern Taiwan
- A124 EGU2011-9031
André Fonseca, José Luis Zêzere, and José Madeira
Examples of deep-seated slope deformation in the headwaters of the Audour and Bouhya Rivers in the Central Rif Mountains, Morocco
- A125 EGU2011-6583
Francesco Troiani, Jorge Pedro Galve, Daniela Piacentini, and Marta Della Seta
An integrated geomorphological approach based on Stream-Length Gradient Index to detect deep-seated landslides
- A126 EGU2011-9557
Francesco Brardinoni, Maria Mammoliti, and Alessandro Simoni
Debris-flow sediment transfer in Alto Adige, central Eastern Alps (Italy)
- A127 EGU2011-9454
Kevin Hyde and **Scott Woods**
Gully erosion following wildfire in steep, mountainous terrain in the western U.S.A.
- A128 EGU2011-8368
Georgie Bennett, Peter Molnar, Oliver Korup, and Paolo Burlando
Modelling uncertainty in short-term catchment erosion rates
- A129 EGU2011-12767
Benjamin Rudaz and Michel Jaboyedoff
Debris flow pulse activity driven by rock collapse events and associated hazards

GM6.6 – The changing geomorphic effectiveness of hydrologic events (co-listed) – Orals

Convener: Michelle Bollschweiler | Co-Conveners: Markus Stoffel, Marco Borga, Andreas Lang, Bastiaan Notebaert

Room: 21

Chairperson: Michelle Bollschweiler

- 15:30–15:45 EGU2011-1703
Aleksander Borejsza
Alluvial archives of land use histories in small drainage basins of the Mexican highlands
- 15:45–16:00 EGU2011-5569
Annegret Larsen and Hans-Rudolf Bork
Processes and timing of sediment delivery from headwaters to trunk streams in Central Europe
- 16:00–16:15 EGU2011-7889
Esperanza Muñoz-Salinas, Paul Bishop, David Sanderson, and Tim Kinnaird
Using OSL to evaluate the impacts of land-use change with the arrival of Europeans in SE Australia: Applications on Grabben Gullen Creek (NSW, Australia)
- 16:15–16:30 EGU2011-12069
Irina Pavlova, Vincent Jomelli, Nicolas Eckert, Delphine Grancher, and Daniel Brunshtein
Debris flow and climate relations in the North French Alps region
- 16:30–16:45 EGU2011-1777
Armelle Decaulne, Ólafur Eggertsson, Estelle Arbellay, Katja Laute, and Achim A. Beylich
Recent extreme snow-avalanche events tracked through tree-ring analysis - a case-study from Western Norway
- 16:45–17:00 EGU2011-3209
Christophe Corona, Jérôme Lopez Saez, and Frédéric Berger
Tree-ring reconstruction of snow avalanches: an evaluation of the dendrogeomorphic approach by comparison with historical archives on an accurately documented path (Chamonix, French Alps).

GM6.6 – The changing geomorphic effectiveness of hydrologic events (co-listed) – Posters

Convener: Michelle Bollschweiler | Co-Conveners: Markus Stoffel, Marco Borga, Andreas Lang, Bastiaan Notebaert

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Bastiaan Notebaert

- A130 EGU2011-904
Patrick Belmont, Jane Willenbring, and Julia Marquard
Measuring event- and century-scale changes in sediment sources to the upper Mississippi River
- A131 EGU2011-1217
Romain Schläppy, Vincent Jomelli, Markus Stoffel, Delphine Grancher, Michael Deschatres, and Daniel Brunstein
Improvement of snow avalanche hazard and vulnerability assessment in the French Alps using a combination of dendrogeomorphic and statistical approaches
- A132 EGU2011-2295
Mélanie Pateau, Monique Fort, Abdelkhalak Ben Moussa, and Chakib Darraz
The assessment of erosive potential: Application to the northern Rif (Morocco)
- A133 EGU2011-2824
Stanley Trimble
Historical Gully Erosion in the Upper Mississippi River Valley Hill Country
- A134 EGU2011-3319
Tereza Novakova, Tomas Matys Grygar, Ondrej Babek, Martin Mihaljevic, Ladislav Strnad, Jan Sedlacek, and Ivo Svetlik
Dating of fluvial sediments in the Morava River watershed (Czech Republic) based on ¹³⁷Cs and Pb and Zn contamination
- A135 EGU2011-3565
Jérôme Lopez Saez, Christophe Corona, and Frédéric Berger
Assessing the reconstruction of landslide activity using anatomical changes in stems and exposed roots.
- A136 EGU2011-4402
Pantaleone De Vita and Pasquale Smaldone
Spatial distribution and hydrological threshold of the October 1954 high magnitude debris flow event occurred in the Amalfi coast (southern Italy)
- A137 EGU2011-6017
Virginia Ruiz-Villanueva, Jose-Maria Bodoque, Andres Diez-Herrero, Miguel-Angel Eguibar, Anastasio Fernandez-Yuste, and Ignacio Guitierrez
Hydro-geomorphic response of the Arroyo Cabrera 1997 flash flood (Central Spain)
- A138 EGU2011-6092
Reka-H Fülöp, Paul Bishop, Derek Fabel, Gordon T Cook, Christoph Schnabel, Philip Naysmith, Sheng Xu, and Jeremy Everest
Using in-situ cosmogenic C-14 and Be-10 depth-profiles to quantify site-specific Holocene soil erosional events: a sensitivity analysis
- A139 EGU2011-6427
Juan Antonio Ballesteros, Jose María Bodoque, Andrés Díez-Herrero, Mauricio Sanchez-Silva, and Markus Stoffel
Roughness calibration and peak discharge estimation based on scars on trees inflicted by woody sediments
- A140 EGU2011-7195
Raul Ortega, Veerle Vanacker, Isabel Miralles, and Nicolas Bellin
Changes in human occupation and soil erosion rates through historical time: evidence from an agricultural complex in Toledo (Spain).
- A141 EGU2011-7922
Emily Procter, Michelle Bollschweiler, and Markus Stoffel
A regional reconstruction of debris-flow frequency in a dolomitic valley in the western Austrian Alps
- A142 EGU2011-9116
Kazimierz Klimek
Downstream migration of human impact in the mid-mountain foreland, temperate climatic zone.
- A143 EGU2011-9119
Filipe Carvalho and Lothar Schulte
Assessment of Late Holocene sediment volume and accumulation rates in valley floors of the Swiss Alps: The Hasli valley and Lütshine Fan delta case study
- A144 EGU2011-9182
Markus Dotterweich
Causes and effects of soil erosion in small catchments of Central Europe
- A145 EGU2011-9192
Valentina Garavaglia, **Giovanni Leonelli**, Manuela Pelfini, and Laura Camilla Vezzola
Tree-ring responses to climate and to seasonal changes in water levels of an ice-contact glacier in the Western Italian Alps

- A146 EGU2011-10422
Michelle Bollschweiler, Markus Stoffel, Marco Borga, Francesco Comiti, and Bruno Mazzorana
 Tree rings as a tool to better understand debris-flow occurrence and initiation - a case study from South Tyrol
- A147 EGU2011-10543
Barbara Kogelnig-Mayer, Markus Stoffel, Michelle Bollschweiler, and Johannes Hübl
 Frequency and magnitude reconstructions on sites influenced by debris flows and snow avalanches using tree-ring series and physically-based process models
- A148 EGU2011-12799
Michael Maerker and the EROMED Team
 EROMED Project: "Definition of an integrated model for the predictive evaluation of the water erosion phenomena in the Mediterranean environment"

GMPV5 – Monitoring and observations of active volcanoes using in-situ and remote sensing techniques (co-listed) –

Posters

Convener: Michael Burton | Co-Conveners: Thomas Staudacher, Jurgen Neuberg, Hugo Delgado Granados, Alessandro Bonaccorso

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: GMPV5 Conveners

- A180 EGU2011-6683
Thomas Staudacher, Andrea Di Muro, Valérie Ferrazzini, Florent Brenguier, Patrice Boissier, Philippe Kowalski, Philippe Catherine, Frédéric Lauret, and François Beauducel
 The Piton de la Fournaise, a closely-monitored volcano
- A181 EGU2011-1639
Francisco Núñez-Cornú and Carlos Suárez-Plascencia
 A Study of the Seismic Aspects of the 2003 - 2005 Vulcanian Explosions at Colima Volcano, Western Mexico.
- A182 EGU2011-2711
Lucia Zaccarelli, Dima Droznin, Nikolai Shapiro, Sergei Senyukov, Evgenii Gordeev, and Victor Chebrov
 Monitoring the activity of Kliuchevskoi volcano through seismic noise cross-correlations
- A183 EGU2011-8321
Sandra Karl, Juergen Neuberg, and Thomas Roome
 Rethinking moment tensor inversion methods to retrieve the source mechanisms of low-frequency seismic events
- A184 EGU2011-1486
Beatriz Gómez-Izquierdo, Hazel Rymer, José Miguel Azañón, and Guillermo Alvarado
 New structure detected at Poás Volcano (Costa Rica) after the Cinchona Earthquake (January 2009)
- A185 EGU2011-2033
Mariangela Sciotto, Andrea Cannata, Stefano Gresta, Eugenio Privitera, and Laura Spina
 The role of North East Crater in the 13 May 2008 eruption at Mt. Etna by means of seismo-infrasonic events
- A186 EGU2011-821
Amy Dabrowa, David Green, Jeremy Phillips, and Alison Rust
 Remote monitoring of volcanic eruptions using the International Monitoring System infrasound network
- A187 EGU2011-2096
Andrea Cannata, Mariangela Sciotto, Letizia Spampinato, and Laura Spina
 Investigation of explosive activity along an eruptive fissure by infrasound: 2008 Mt. Etna eruption
- A188 EGU2011-8476
Laura Spina, Andrea Cannata, Eugenio Privitera, Sylvie Vergnolle, Carmelo Ferlito, Stefano Gresta, Placido Montalto, and Mariangela Sciotto
 Inside the shallow Mt. Etna plumbing system from analysis of infrasonic signals (August 2007-December 2009)
- A189 EGU2011-12095
Amy Dabrowa, Jeremy Phillips, Alison Rust, and David Green
 Infrasound Generated by Strombolian Eruptions - Insights from Laboratory Experiments
- A190 EGU2011-9760
 Alessandro Bonaccorso, **Alessandro Bonforte**, Gilda Currenti, Ciro Del Negro, and Filippo Greco
 Magma storage, eruptive activity and flank instability: inferences from ground deformation and gravity changes during the 1993-2000 recharging of Mt. Etna volcano
- A191 EGU2011-7888
Karen Pascal, Jurgen Neuberg, and Eleonora Rivalta
 Checking the validity of superimposing analytical deformation models
- A192 EGU2011-3971
Vaso Saltogianni and Stathis C. Stiros
 Modeling the Mogi source of a small-scale inflation episode of the Santorini volcano (Aegean Sea) using EDM data and a numerical-topological approach

- A193 EGU2011-11594
Fabio Sansivero, Giuseppe Vilardo, Giovanni Chiodini, and Vincenzo Augusti
 Thermal IR monitoring of active volcanic areas: instruments and methodologies used at Campi Flegrei Caldera (Italy) in the period 2004-2010 and new technological implementations to plan in near future.
- A194 EGU2011-2163
Sonia Calvari, Ralf Buettner, Antonio Cristaldi, Piero Dellino, Flora Giudicepietro, Massimo Orazi, Rosario Peluso, Letizia Spampinato, Bernd Zimanowski, and Enzo Boschi
 The 7 September 2008 major explosion at Stromboli volcano: Characterisation of the event and quantification of the ejecta from a multi-parametric analysis
- A195 EGU2011-5142
Jonathan Procter, Gert Lube, Shane Cronin, and Jean-Claude Thouret
 Tracing sediment pulses in lahars using multiparameter recording stations and serialised geophones.
- A196 EGU2011-5940
Jacopo Taddeucci, Corrado Cimarelli, Marie-Noëlle Guilbaud, Miguel Alatorre-Ibargüengoitia, and Hugo Delgado-Granados
 A reappraisal of the explosive activity of Xitle volcano, Mexico City.
- A197 EGU2011-10917
Vladimir Conde, Bo Galle, Angelica Muñoz, and Hugo Delgado
 A Rapid Deployment System for volcano gas monitoring
- A198 EGU2011-11874
Matthias Fickel and Hugo Delgado Granados
 Measurement of SO₂ and BrO in the plumes of Mexican volcanoes
- A199 EGU2011-12948
Hendrik Fischer, Arne Krueger, Peter Rusch, Roland Harig, Roberto Basaldud, and Michel Grutter
 Scanning UV Gas Imaging System (SUGIS) applied to study the SO₂ Emission from Popocatepetl volcano
- A200 EGU2011-5927
Peter Lübcke, Nicole Bobrowski, Sebastian Illing, Christoph Kern, Leif Vogel, Johannes Zielcke, and Ulrich Platt
 Observing the plume of Popocatepetl and Colima with a novel SO₂-Camera
- A201 EGU2011-1656
Paolo Papale
 Early Warning Systems at active volcanoes: trends and challenges
- A202 EGU2011-11670
Luca Merucci, Michael Burton, Stefano Corradini, and Patrick Allard
 Ground- and space-based observations of volcanic degassing during the 2010 Eyjafjalla eruption.
- A203 EGU2011-7387
Selami Yilmaz, Nicole Bobrowski, Harald Flentje, Udo Frieß, Christoph Hörmann, Christoph Kern, Holger Sihler, Leif Vogel, Thomas Wagner, and Ulrich Platt
 Observation of the volcanic plume of Eyjafjallajökull over continental Europe by Multi-Axis Differential Optical Absorption Spectroscopy (MAX-DOAS)
- A204 EGU2011-10341
Letizia Spampinato, Clive Oppenheimer, Andrea Cannata, Placido Montalto, Giuseppe Giovanni Salerno, and Sonia Calvari
 Superimposed degassing cycles at active basaltic volcanoes
- A205 EGU2011-10804
Nicole Bobrowski, Giovanni Bruno Giuffrida, Dario Tedesco, Matthiew Yalire, Santiago Arrellano, Charles Balagizi, and Bo Galle
 Gas emission measurements of the active lava lake of Nyiragongo, DR Congo
- A206 EGU2011-9018
Jose Barrancos Martinez, Christian Fischer, J. Ignacio Roselló, Nemesio Pérez, Konradin Weber, and Millán Millán
 TDL, UV-DOAS, COSPEC and miniDOAS measurements of the degassing from the summit crater of Teide volcano, Tenerife, Canary Islands
- A207 EGU2011-10753
Patrik Norman, Bo Galle, Hugo Delgado Granados, Mike Burton, and Silvana Hidalgo
 Using meso-scale meteorological modeling to reduce errors in gas flux measurements from volcanoes

NH1.7/AS4.6/CL3.6 – Assessment of Weather-related Risk on Agricultural Production and Agribusiness (co-organized) – Orals

Convener: Ana Maria Tarquis | Co-Conveners: Nicolas R. Dalezios, Antonio Saa, Mikhail Semenov, Fernando Burgaz, Anne Gobin, Marijn van der Velde

Room: 4

Chairperson: Ana M. Tarquis

- 15:30–15:45 EGU2011-197
Mónica Alexandra Rodrigues, Ana Monteiro, Solange Leite, and Hervé Quénol
 Climate Observation and Modeling over Land Vines in the Context of Climate Change: a Douro Region Case Study
- 15:45–16:00 EGU2011-2664
 Aureliano C. Malheiro, **João A. Santos**, and Joaquim G. Pinto
 Impacts of climate change on viticultural zoning in Europe
- 16:00–16:15 EGU2011-2113
Fausto Tomei, Rodica Tomozeiu, Giulia Villani, and Vittorio Marletto
 Climate change and irrigation in northern Italy, scenarios of adaptation from the Agrosценari project
- 16:15–16:30 EGU2011-7906
 Zbigniew Szwejkowski, Leszek Kuchar, Ewa Dragańska, and **Krystyna Grabowska**
 Risk in agricultural production in Poland and climate change
- 16:30–16:45 EGU2011-10049
Nicolas Dalezios
 Assessment of Cotton Production in Drought-Prone Areas in Greece
- 16:45–17:00 EGU2011-13418
Anne Gobin
 Climate impacts on biomass production in Belgium

NH1.7/AS4.6/CL3.6 – Assessment of Weather-related Risk on Agricultural Production and Agribusiness (co-organized) – Posters

Convener: Ana Maria Tarquis | Co-Conveners: Nicolas R. Dalezios, Antonio Saa, Mikhail Semenov, Fernando Burgaz, Anne Gobin, Marijn van der Velde

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Anne Gobin and Nicolas Dalezios

- XY359 EGU2011-200
Mónica Alexandra Rodrigues, Alfredo Rocha, Ana Monteiro, Hervé Quénol, and José Rodrigues de Freitas
 Simulation of the Climatic Risks episodes in the Demarcated Douro Region Vineyards using the WRF model
- XY360 EGU2011-4111
Mónica Alexandra Rodrigues, Ana Monteiro, Maria Helena Pina, Hervé Quénol, and José Rodrigues de Freitas
 Contribution of the Agriculture Advices in the Prevention and Evaluation of Risks in Vineyard within the Demarcated Douro Region
- XY361 EGU2011-12324
Barbara Köstner, Johannes Franke, Thoralf Hänsel, Matthias Kuhnert, Marco Lorenz, and Tobias Donix
 Importance of different climate projections for the analysis of climate impact on agricultural production
- XY362 EGU2011-13018
Francesca Todisco, Francesco Mannocchi, and Lorenzo Vergni
 Intensity-duration-frequency curve for the agricultural drought
- XY363 EGU2011-13074
 Luigi Perini, Luca Salvati, **Antonella De Angelis**, and Sofia Bajocco
 Climate change assessment: proposal for a standardized index
- XY364 EGU2011-13285
Marijn van der Velde
 Contrasting crop responses to extreme weather events
- XY365 EGU2011-13638
 Mario Cunha and **Christian Richter**
 Modelling the Cyclical Behaviour of Wine Production in Douro Region Using a Time-Varying Parameters Approach
- XY366 EGU2011-1784
 M. Carmen Cartagena, **M.Teresa Castellanos**, A.Maria Tarquis, M. Jesús Cabello, Francisco Ribas, and Augusto Arce
 Risk of nitrate pollution in agricultural systems
- XY367 EGU2011-13729
Jose Luis Valencia, Fredi Leonidas, Antonio Saa-Requejo, Jose María Gascó, and Ana Maria Tarquis
 Spatial and temporal precipitation patterns of the Ebro River Basin, Spain
- XY368 EGU2011-6827
Jose M Anton, Juan B Grau, Ana M Tarquis, Raúl Sánchez, Leonor Rodriguez, and Diego Andina
 Some past decision theory models for euro construction model codes and for road drainage in Spain, and modest hints with multi-criteria methods for agro and environmental assurance

- XY369 EGU2011-1894
Ruben Moratiel, José M Durán, Richard L. Snyder, and Ana M. Tarquis
Future reference evapotranspiration in Duero Valley (Spain)
- XY370 EGU2011-1944
Pieranna Servadio, Simone Bergonzoli, and Davide Dell'Unto
Effects on some soil qualities following the traffic of high axle load machinery at different water contents
- XY371 EGU2011-5076
Angelica Giarolla, Priscila S. Tavares, Chou S. Chan, and Renan L. B. Souza
Evaluation of seasonal forecasts of surface air temperature from Eta model for a soybean producing location in Brazil
- XY372 EGU2011-2737
Saeb Khresat
Assessment of the risks from climate change and water scarcity on agriculture production in Jordan
- XY373 EGU2011-3252
Araya Berhe, Saskia Keesstra, and Leo Stroosnijder
Simple model for assessing climatic constraints under the past and present agriculture in the northern Ethiopia
- XY374 EGU2011-5917
Eline Vanuytrecht and Dirk Raes
Assessment of the 'CO2 fertilization effect' on crops with the AquaCrop model
- XY375 EGU2011-6284
Franziska Strauss, Franz Sinabell, and Erwin Schmid
The relative weight of weather risks in crop production volatility in Austria
- XY376 EGU2011-6508
Jose M Anton, **Juan Bautista Grau**, Colombo Speroni, Lisandro De los Rios, Diego Andina, and Ana Maria Tarquis
Mathematical model for the arrangement and the cleaning of the river basin and surroundings of the river sandy grounds to its passage by the city of Salta (Argentina)
- XY377 EGU2011-10291
Antonio Saa, **Ana Tarquis**, M^a Rosario García, M^a Cruz Díaz, and Fernando Burgaz
Extreme temperature events analyzed with Fast Fourier Transform
- XY378 EGU2011-13624
Fulgencio Buendia, Rafael Bermudez, Ana Maria Tarquis, and Diego Andina
FMECA Application in Rainfall Hazard Prevention

HS4.3/AS4.13/NH1.12 – Towards practical applications in ensemble hydro-meteorological forecasting (including Arne Richter Award for Outstanding Young Scientists Lecture) (co-organized) – Orals

Convener: Maria-Helena Ramos | Co-Conveners: Florian Pappenberger, Jutta Thielen-del Pozo, Albrecht Weerts, YI HE, Linna Zhao

Room: 33

Chairperson: Jutta Thielen and Helen Yi

- 13:30–13:45 EGU2011-9093
Vincent Fortin, François Anctil, Richard Turcotte, Juan-Alberto Velazquez, and Bruce Davison
Challenges and rewards of multimodel ensemble hydrological forecasting
- 13:45–14:00 EGU2011-12613
Rodrigo Cauduro Dias de Paiva, Walter Collischonn, Marie-Paule Bonnet, Luis Gustavo Gonçalves de Gonçalves, Diogo Costa Buarque, and Carlos André Bulhões Mendes
Use of an ensemble approach to evaluate the importance of initial conditions and atmospheric forcing on hydrological prediction uncertainty in the Amazon River basin
- 14:00–14:15 EGU2011-5397
Durga Lal Shrestha, Thomas Pagano, Qj Wang, and David Robertson
Application of Ensemble Dressing for Hydrological Applications
- 14:15–14:30 EGU2011-7261
Tommaso Diomede, Chiara Marsigli, Andrea Montani, and Tiziana Paccagnella
Comparison of calibration techniques for a limited-area ensemble precipitation forecast using reforecasts
- 14:30–14:45 EGU2011-13889
Masahiro Ryo, Oliver C. Saavedra V., Toshio Koike, and Dang Ngoc Tinh
Development of an early flood warning system based on ensemble method using quantitative precipitation forecasts in Huong River, Vietnam
- 14:45–15:00 EGU2011-373
Sara Liguori, Miguel Rico-Ramirez, Alma Schellart, and Adrian Saul
High-resolution ensemble rainfall forecasts in urban hydrological applications

Chairperson: Maria-Helena Ramos and Albrecht Weerts

- 15:30–15:45 EGU2011-11937
Jutta Thielen-del Pozo and the EFAS Team
 The state of the art of the European Flood Alert System
- 15:45–16:00 EGU2011-7105
Schalk Jan van Andel and Arnold H. Lobbrecht
 Experiences from introducing ensemble hydrological predictions in practice
- 16:00–16:15 EGU2011-2303
François Anctil, Darwin Brochero, and Christian Gagné
 Which optimization criterion leads to the reliable simplification of a hydrological ensemble prediction system with a Backward greedy selection of members?
- 16:15–16:30 EGU2011-13058
 Julie Demargne, **Limin Wu**, Satish Regonda, and James D Brown
 Experimental hydrologic ensemble forecast service in the U.S. National Weather Service
- 16:30–17:00 EGU2011-14192
Florian Pappenberger
 Squaring the Circle: The hydro-meteorological forecast chain (Arne Richter Award for Outstanding Young Scientists Lecture)

HS4.3/AS4.13/NH1.12 – Towards practical applications in ensemble hydro-meteorological forecasting (including Arne Richter Award for Outstanding Young Scientists Lecture) (co-organized) – Posters

Convener: Maria-Helena Ramos | Co-Conveners: Florian Pappenberger, Jutta Thielen-del Pozo, Albrecht Weerts, YI HE, Linna Zhao

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Florian Pappenberger and Linna Zhao

- A293 EGU2011-10303
Florian Pappenberger, Jutta Thielen, Hannah Cloke, and Maria-Helena Ramos
 Recent Advances and case studies in medium range flood forecasting: A follow on review
- A294 EGU2011-12950
Ioanna Zalachori and Maria-Helena Ramos
 Ensemble hydrological forecasting based on weather predictions from the TIGGE database
- A295 EGU2011-11299
Konrad Bogner, Florian Pappenberger, and Jutta Thielen
 Combining hydrological multi-model ensemble forecasts
- A296 EGU2011-13813
Fabrizio Tonelli, Laura Casicci, Andrea Montani, Silvano Pecora, and Mirella Vergnani
 Pre-operational use of a meteorological and hydrological/hydraulic ensemble approach on the Po River
- A297 EGU2011-8623
Mathieu Le Lay, Laetitia Moulin, Pierre Bernard, Thibault Mathevet, Joël Gailhard, and Rémy Garçon
 Operational use of ensemble hydrometeorological forecasts at EDF (French producer of energy)
- A298 EGU2011-13811
Nicola Rebora, Francesco Silvestro, and Luca Ferraris
 Probabilistic discharge forecasting on small and medium size basins: an operational perspective
- A299 EGU2011-3874
Isidora Jankov
 Ensemble Prediction System for Hydrometeorological Testbed (HMT) Application
- A300 EGU2011-3587
Étienne Gaborit, François Anctil, Geneviève Pelletier, and Vincent Fortin
 On the reliability of spatially disaggregated global ensemble rainfall forecasts
- A301 EGU2011-13545
Scott Sinclair and Geoff Pegram
 PyTOPKAPI - an open source hydrological model used to estimate soil moisture in near real time over South Africa for flood potential & drought monitoring and remote sensing model intercomparison
- A302 EGU2011-5518
 Vera Thiemig, **Florian Pappenberger**, Peter Burek, Ad De Roo, and Jutta Thielen
 Evaluation of Precipitation Products for an Operational Pan-African Flood Forecasting System
- A303 EGU2011-3439
Michael Strauch, Christian Bernhofer, Sérgio Koide, Martin Volk, Carsten Lorz, and Franz Makeschin
 Using precipitation data ensemble and Bayesian Model Averaging for uncertainty analysis in hydrologic modeling.
- A304 EGU2011-5267
Prafulla Pokhrel, Quan Jun Wang, and David Robertson
 A Bayesian Joint Probability Post-Processing Tool for Quantifying Uncertainty in Predictions from a Deterministic Water Balance Model

- A305 EGU2011-11762
Guillaume Thirel, Peter Salamon, Peter Burek, Milan Kalas, and Jutta Thielen
Assimilation of the MODIS Snow Cover Area in the LISFLOOD model for the European Flood Alert System (EFAS)
- A306 EGU2011-9773
Benjamin Renard, Maria-Helena Ramos, Mark Thyer, Jerome Le Coz, Flora Branger, Dmitri Kavetski, and George Kuczera
Tracking the role of streamflow uncertainty in hydrological ensemble predictions
- A307 EGU2011-5641
Shailesh Kumar Singh, Einar Örn Hreinsson, **Ross Woods**, Hilary McMillan, and Andras Bardossy
Improving calibration strategy of physically based model by using critical events
- A308 EGU2011-8789
Ioanna Zalachori, Annie Randrianasolo, and **Maria-Helena Ramos**
How much the length of data samples influences forecast verification and post processing of hydrological ensemble predictions?
- A309 EGU2011-10569
Jan Bliefernicht, András Bárdossy, and Christian Ebert
Verification of the precipitation forecasts of a limited area model and a regional ensemble prediction model for flood-producing situations in Central Europe.
- A310 EGU2011-6660
Alessandro Ceppi, Giovanni Ravazzani, Alessio Salandin, Davide Rabuffetti, and Marco Mancini
Real-time hydro-meteorological forecasts: re-analysis of some operational case studies
- A311 EGU2011-9797
Lorenzo Alfieri, Jutta Thielen-del Pozo, and Peter Salamon
Improving risk prevention through flash flood ensemble early warning

GMPV10/G3.11/NH2.7/TS1.8 – Volcano deformation, dynamics, and deep structure (co-organized) – Orals
Convener: Valerio Acocella | Co-Conveners: Agust Gudmundsson, Giuseppe Puglisi, Sigurjon Jonsson, Thomas R. Walter
Room: 20
Chairperson: Acocella/Gudmundsson

- 10:30–10:45 EGU2011-9272
Robert (Bob) White, Hilary Martens, Janet Key, Heidi Soosalu, and Steinunn Jakobsdottir
Dyke Propagation and Deformation under the Icelandic Rift Zone Tracked by Seismicity.
- 10:45–11:00 EGU2011-10053
Margaret Hartley and Thor Thordarson
Formation of Öskjuvatn caldera at Askja, north Iceland: evolution of caldera collapse and implications for the lateral flow hypothesis
- 11:00–11:15 EGU2011-13562
Freysteinn Sigmundsson, Olgeir Sigmarrson, Andy Hooper, Sigrún Hreinsdóttir, Sigurlaug Hjaltadóttir, Kristín Vogfjörð, Þóra Árnadóttir, Rikke Pedersen, Páll Einarsson, Kurt Feigl and the Eyjafjallajökull volcano anatomy Team
The 2010 inflation and deflation sources of Eyjafjallajökull: Magma flow, geochemical characteristics and evidence for intrusion triggering of the explosive summit eruption
- 11:15–11:30 EGU2011-12804
Andrew Hooper, Freysteinn Sigmundsson, Sigrún Hreinsdóttir, Thóra Árnadóttir, David Bekaert, Rikke Pedersen, Matthew Roberts, Páll Einarsson, Benedikt Ófeigsson, Kurt Feigl and the Eyjafjallajökull Geodetic Team
The 2010 inflation and deflation sources of Eyjafjallajökull: Modelling of geodetic data from InSAR and GPS
- 11:30–11:45 EGU2011-9347
Carolina Pagli, Tim Wright, Hua Wang, Eric Calais, Laura Bennati Rassion, Cynthia Ebinger, Manahloh Belachew, and Elias Lewi
Geodynamics of Afar: 3D crustal velocities and strain rates from multiple InSAR tracks and GPS
- 11:45–12:00 EGU2011-12013
Eleonora Rivalta, Marco Beleggia, and Torsten Dahm
The changing shape of dykes during propagation explains the pattern of induced seismicity

LUNCH BREAK

Chairperson: Walter/Acocella

- 13:30–13:45 EGU2011-9800
Agust Gudmundsson, Nahid Mohajeri, and Zoe Barnett
Power-law size distributions in volcanotectonics
- 13:45–14:00 EGU2011-430
Joel Ruch, Valerio Acocella, Fabrizio Storti, Marco Neri, Susi Pepe, Giuseppe Solaro, and Eugenio Sansosti
Detachment depth revealed by rollover deformation: an integrated approach at Mount Etna.
- 14:00–14:15 EGU2011-11476
Alessandro Bonforte, Francesco Guglielmino, and Giuseppe Puglisi
Dynamics preceding and accompanying the 2008-2009 Eruption of Mt. Etna (Italy) imaged by integrated GPS and DInSAR data
- 14:15–14:30 EGU2011-12004
Danila Scandura, Alessandro Bonaccorso, Gilda Currenti, and Ciro Del Negro
FEM-based inversion of DInSAR data to infer coseismic slip distribution along Pernicana Fault System at Mt Etna
- 14:30–14:45 EGU2011-2871
Nobuo Geshi, Joel Ruch, and Valerio Acocella
Relationships between caldera size and eruptive volume of magma
- 14:45–15:00 EGU2011-11641
Eoghan Holohan, Thomas Walter, John Walsh, Benjamin van Wyk de Vries, Martin Schöpfer, and Valentin Troll
Origin and Significance of Oblique-slip Faulting during Caldera Collapse
- Chairperson: Jonsson/Puglisi
- 15:30–15:45 EGU2011-9301
Guillermo Caravantes González, Jeffrey Zurek, Hazel Rymer, Corinne Locke, John Cassidy, and Glyn Williams-Jones
Structural and geophysical study of Masaya Caldera
- 15:45–16:00 EGU2011-8670
Christelle Wauthier, Valérie Cayol, François Kervyn, and Nicolas d'Oreye
Nyiragongo Volcano 2002 Eruption Constrained by Multibeam InSAR Data
- 16:00–16:15 EGU2011-11962
Mariarosaria Manzo, Pietro Tizzani, Giuseppe Solaro, Eugenio Sansosti, Paolo Berardino, Andrea Manconi, Antonio Pepe, Susi Pepe, and Riccardo Lanari
Twenty years of ground deformation monitoring at Campi Flegrei caldera (Southern Italy) via advanced space-based remote sensing techniques
- 16:15–16:30 EGU2011-9561
Michael Lisowski, **Maurizio Battaglia**, and Michael Poland
Analysis of GPS-measured deformation before, during, and after the 2004-2008 dome-building eruption of Mount St. Helens, Washington
- 16:30–16:45 EGU2011-11916
Francesco Casu
Present scenario and new perspectives for Differential SAR Interferometry in volcanic areas
- 16:45–17:00 EGU2011-4399
Jose Fernandez and Antonio G. Camacho
Modelling geodetic changes at volcanic areas by extended sources. Model and application examples.

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

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

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Gudmundsson/Jonsson/Puglisi/Walter

- A208 EGU2011-10760
Maike Schubert, Thomas Driesner, Taras Gerya, and Peter Ulmer
Basaltic magma as trigger for felsic intrusions
- A209 EGU2011-1102
Gabriele Uenzelmann-Neben, Daniela N. Schmidt, Frank Niessen, and Ruediger Stein
Glacial rebound causes intraplate volcanism off South Greenland
- A210 EGU2011-2638
Vadim Milyukov and Andrey Myasnikov
Monitoring the state of the magmatic structures of Elbrus volcano based on observation of lithospheric deformations

- A211 EGU2011-2714
Virgílio Mendes, **José Madeira**, António Trota, António Brum da Silveira, Joaquim Pagarete, and Pedro Elósegui
GPS surveying in S. Jorge, Azores, reveal volcanic unrest?
- A212 EGU2011-2915
Marco Neri, Joel Ruch, Bornas Ma. Antonia Vidamo, Martinez-Villegas Mylene, Bariso Ericson, and Bignami Christian
Volcano-tectonic evolution of Mt. Kanlaon, Negros Island, Philippines
- A213 EGU2011-5509
Ingrid Fjeldskaar Løtveit, Agust Gudmundsson, and Willy Fjeldskaar
Mechanical and thermal effects of sill emplacement in layered rocks
- A214 EGU2011-5676
Joel Ruch, Adriano Nobile, Valerio Acocella, and Nobuo Geshi
Volcano collapse and pit crater formation using analogue models: an application to Myiakejima, Japan.
- A215 EGU2011-3211
Valerio Acocella, Giuseppe Solaro, Susi Pepe, Joel Ruch, Marco Neri, and Eugenio Sansosti
Anatomy of an unstable volcano from InSAR: multiple processes affecting flank instability at Mt. Etna, 1994-2008
- A216 EGU2011-6478
Amalia Bonanno, Vincenzo Vinciprova, Giuseppe Puglisi, and Giuseppe Nunnari
FE Modeling of the instable eastern flank of Mt. Etna volcano during the inter-eruptive period 2003 - 2004
- A217 EGU2011-6590
Francesco Guglielmino, Alessandro Bonforte, Giuseppe Puglisi, Christian Bignami, Salvatore Stramondo, Francesco Obrizzo, Urs Wegmüller, and Pierre Briole
The April 3, 2010 earthquake along the Pernicana fault (Mt. Etna - Italy): analysis of satellite and in situ ground deformation data integrated by the SISTEM approach
- A218 EGU2011-14059
Marco Aliotta, Andrea Cannata, Daniele Carbone, Giuseppe Di Grazia, Salvatore Gambino, Francesco Guglielmino, Placido Montalto, Domenico Patanè, and **Giuseppe Puglisi**
Geophysical effects of the lava fountain episodes at Mt. Etna: insights on the shallow plumbing system
- A219 EGU2011-11255
Giorgio De Guidi, **Salvatore Scudero**, and Stefano Gresta
Relationship between surface and deep structure at Mt. Etna volcano (Sicily)
- A220 EGU2011-11349
Christina Plattner, Falk Amelung, Scott Baker, Rob Govers, and Mike Poland
Modeling flank motion at Kilauea volcano (Hawai'i): Insights in the dynamic interaction between tectonic and magmatic driving forces for volcano deformation
- A221 EGU2011-7597
Fabien Albino, Virginie Pinel, and Freysteinn Sigmundsson
Influence of surface load variations on shallow magma storage zones: Application to Icelandic subglacial volcanoes
- A222 EGU2011-11504
Andreas Fichtner and Hrvoje Tkalčić
Insights into the kinematics of a volcanic caldera drop: Probabilistic finite-source inversion of the 1996 Bardarbunga, Iceland, earthquake
- A223 EGU2011-2088
Thomas R. Walter
Web-cam Strain Measurement at Mount St. Helens from 2004-2008
- A224 EGU2011-3205
Thomas Dewez, Clément Hibert, Anne Mangeney, Philippe Kowalski, Philippe Catherine, and Gilles Grandjean
Ground-based stereo-photogrammetric monitoring of the active crater of Piton de la Fournaise, La Réunion Island
- A225 EGU2011-553
Adriano Nobile, Joel Ruch, Valerio Acocella, Sven Borgstrom, Valeria Siniscalchi, Eugenio Sansosti, Andrea Manconi, and Yosuke Aoki
Deformation on Aso Caldera (SW Japan) detected through DInSAR
- A226 EGU2011-6439
Antonio Troiano, Maria Giulia Di Giuseppe, Zaccaria Petrillo, Claudia Troise, and **Giuseppe De Natale**
Ground deformation at calderas driven by fluid injection: modelling unrest episodes at Campi Flegrei (Italy)
- A227 EGU2011-426
Sébastien Leibrandt, Pierre-Yves Gillot, and Anthony Hildenbrand
Emplacement of large volcanoclastic breccia volumes in relationship with the evolution of a central caldera: volcanic history of the Cantal massif (France)

- A228 EGU2011-7956
Muriel Gerbault
Conditions for shear and tensile failure around an inflating circular magmatic chamber: internal overpressure and shear band geometries obtained from analytical and numerical elasto-plastic models
- A229 EGU2011-8541
Rodrigo del Potro, Joachim Gottsmann, Antonio Camacho, and Mayel Sunagua
Deep structure beneath Uturuncu volcano in the central Andes: Insights from new density anomaly models
- A230 EGU2011-9772
Ricardo Ramalho, George Helffrich, Michael Cosca, Derek Vance, Dirk Hoffmann, and Daniela N. Schmidt
Ocean Island Uplift, the Cape Verde Example
- A231 EGU2011-11713
Manoochehr Shirzaei, Thomas R. Walter, Hamid. R. Nankali, and Eoghan. P. Holohan
Gravity-driven deformation of Damavand volcano detected through InSAR time series
- A232 EGU2011-11425
Pietro Tizzani, Andrea Manconi, Giovanni Zeni, Antonio Pepe, Mariarosaria Manzo, Antonio Camacho, José Fernández, Paolo Berardino, Francesco Casu, and Riccardo Lanari
A unitary physical model for the long- and short-term deformation field revealed at Tenerife volcanic island

NH3.8 – Large slope instabilities: characterisation, dating, triggering, monitoring and modelling – Orals

Convener: Giovanni Crosta | Co-Conveners: John Clague, Lars Blikra, Michel Jaboyedoff, Federico Agliardi, Oliver Korup

Room: 1

Chairperson: Crosta G.B., Clague, J.J

- 13:30–13:45 EGU2011-2215
Marc Ostermann and Diethard Sanders
At least 500 post-glacial catastrophic rockslides/rock avalanches in the Alps: Is there a message?
- 13:45–14:00 EGU2011-13028
Andrea Pedrazzini, Michel Jaboyedoff, Alexander Loye, and Battista Matasci
Distribution and characteristics of large slope instabilities in Rhone Valley (Switzerland)
- 14:00–14:15 EGU2011-3877
Catherine Cloutier, Jacques Locat, and Réjean Couture
Displacement patterns obtain from monitoring at the Gascons rockslide, Gaspé Peninsula, Canada
- 14:15–14:30 EGU2011-8911
Roberta Pellicani, Filomena Canora, and Giuseppe Spilotro
Experiences from the monitoring of the large landslide of Aliano (Basilicata, Italy)
- 14:30–14:45 EGU2011-5143
Masahiro Chigira, Takehiro Hariyama, and Shintaro Yamasaki
Internal structures of an early stage of gravitational slope deformation on a dip slope of sedimentary rocks
- 14:45–15:00 EGU2011-5622
Stephane Bouissou, Romain Darnault, Alexandre Chemenda, and Yann Rolland
Gravitational rock slope failure and associated fracturing: New insights from geological analysis and numerical modeling
- Chairperson: Jaboyedoff, M., Agliardi, F.
- 15:30–15:45 EGU2011-5793
Pascal Lacroix and **David Amitrano**
Modeling the long term dynamic and damage of large rockslides
- 15:45–16:00 EGU2011-7501
Zerathe Swann, Lebourg Thomas, and Bigot-Cormier Florence
Long-term evolution and variations of maturation of deep-seated slope failures, insights from the "La Marbrière" slope (Southern Alps, France).
- 16:00–16:15 EGU2011-8651
Daria Marchetti, Giacomo D'Amato Avanzi, Roberto Gianecchini, and Alberto Puccinelli
The importance of the geological model in large slope instabilities: the case of Marinasco-Strà landslide (Eastern Liguria, Italy)
- 16:15–16:30 EGU2011-10865
Luca Zorzi, Matteo Massironi, Rinaldo Genevois, Stefan Schneiderbauer, and Volkmar Mair
Inherited structures and slope evolution: the case of the left slope of the Ridnaun Valley.
- 16:30–16:45 EGU2011-6203
Fernando Ornelas Marques, **Anthony Hildenbrand**, João Catalão, Cristina Maria Catita, and Ana Cristina Costa
Active large sector collapse on Pico Island (Azores)

16:45–17:00 EGU2011-2008
Keh-Jian Shou and Shih-Tsu Chen
 On the ancient Song-Mao landslide in Taiwan

NH3.8 – Large slope instabilities: characterisation, dating, triggering, monitoring and modelling – Posters

Convener: Giovanni Crosta | Co-Conveners: John Clague, Lars Blikra, Michel Jaboyedoff, Federico Agliardi, Oliver Korup

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Korup, O., Clague, J.J., Jaboyedoff, M.

- XY379 EGU2011-1067
Chiara Boccali, Stefano Devoto, Claudia Strada, and Luca Zini
 Geomorphological characterization and monitoring of slope movements between Salurn and Neumarkt (Adige Valley, Italy)
- XY380 EGU2011-3412
Ewald Brueckl, Fritz K. Brunner, Erich Lang, Stefan Mertl, Martin Mueller, and Ulrike Stary
 The Gradenbach Observatory - monitoring in-stationary deep-seated gravitational creep by geodetic, hydrological, and seismological methods
- XY381 EGU2011-3437
Engielle Mae Paguican, Benjamin van Wyk de Vries, and Alfredo Mahar Francisco Lagmay
 Hummocks in large avalanches: how they form and what they mean
- XY382 EGU2011-4050
Ching-Weei Lin and Yen-Yen Li
 The Influence of Geological Structures on the Initiation of Large Landslides: An Example from Hsiaolin Landslide Induced by Typhoon Morakot in 2009, Taiwan
- XY383 EGU2011-4419
Pantaleone De Vita, Maria Teresa Carratù, Giovanni La Barbera, and Roberto Santoro
 Kinematics and geological constraints of the constant slow moving Pisciotta earth slide (southern Italy)
- XY384 EGU2011-5228
Marc-Andre Brideau
 Characterization of a large landslide complex in weak rock at Cape Turnagain, North Island, New Zealand.
- XY385 EGU2011-5671
Stephane Bouissou, Thomas Bois, and Michel Jaboyedoff
 Influence of structural heterogeneities and of large scale topography on imbricate gravitational rock slope failures: New insights from 3-D physical modeling and geomorphological analysis.
- XY386 EGU2011-5869
Yu-Chang Chan, Kou-Jen Chang, and Rou-Fei Chen
 Geologic structures contributing to the catastrophic Xiaolin landslide in Taiwan: Evidence from pre- and post-landslide airborne LiDAR data
- XY387 EGU2011-6310
Karine Bernard and Benjamin van Wyk de Vries
 Characterisation of breccia structure at the base of large landslides: a necessary step for modelling.
- XY388 EGU2011-10165
Meei-Ling Lin, Kuo-Lung Wang, Jui-Tung Liao, Bin-Sheng Yu, Sheng-Chi Lin, Chao-Wei Chen, Li-Yuan Fei, Chung-Ji Ji, and Hsi-Horng Lin
 Investigation and analysis of a landslide area subjected to faults and fracture materials- the Tsuiluan area in Central Taiwan
- XY389 EGU2011-6879
Alessandro Sacchini, Francesco Faccini, and Mauro Piccazzo
 Large-scale landslides in Upper Scrivia Valley (Ligurian Apennine, Italy)
- XY390 EGU2011-5794
Andrew Kos, Alexandra Signer, Phillip Schaer, Tazio Strozzi, Florian Amann, Giorgio Valenti, and Simon Loew
 New insights into the kinematic behaviour of the Alpe di Rosciro rock slope instability, Canton Tessin, Switzerland
- XY391 EGU2011-6526
Vincent Lebrouc, Stéphane Schwartz, Laurent Baillet, Denis Jongmans, Jean François Gamond, Julien Carcaillet, Olivier Le roux, Didier Bourles, and Régis Braucher
 Dynamic characterisation of gravitational movements affecting the southern edge of Belledonne massif (French Alps): contribution of CRE dating and thermal modeling
- XY392 EGU2011-6920
Anna Roccati, Francesco Faccini, Mauro Piccazzo, and Flavio Poggi
 Geomorphological characterisation and PSInSAR monitoring activities of a large slope instabilities in the External Liguride ophiolites (Northern Apennine, Italy)

- XY393 EGU2011-13491
Vincenzo Simeone, Angelo Doglioni, and Alessandro Guerricchio
Large landslide along the Adriatic coastline in Southern Italy
- XY394 EGU2011-13926
Federico Agliardi, Giovanni B. Crosta, Carlo Vezzoli, and Gregorio Mannucci
In situ and remote long term real-time monitoring of a large alpine rockslide
- XY395 EGU2011-13850
Marco Secondi, **Giovanni B Crosta**, Claudio di Prisco, Gabriele Frigerio, Paolo Frattini, and Federico Agliardi
Forecasting landslide motion by a dynamic elasto-visco-plastic model
- XY396 EGU2011-11497
Martin Franz, Clément Michoud, Marc-Henri Derron, Michel Jaboyedoff, and Andrea Pedrazzini
Characterisation and movements' quantification using structural analysis, remote sensing and geological modelling methods of the "Bornes du Diable"
- XY397 EGU2011-7728
Giulia Bossi, Simonetta Cola, Matteo Mantovani, Gianluca Marcato, and Alessandro Pasuto
Modelling Mortisa large slow-moving landslide (Northern Italy) through geomorphological analysis
- XY398 EGU2011-10292
Peter Schön, John J. Clague, and Doug Stead
An integrated Distinct Element Modeling and Remote Sensing Study of the Barrier, British Columbia, Canada
- XY399 EGU2011-8475
Giovanni Crosta, Silvia Imposimato, Dennis Roddeman, and Paolo Frattini
Effects of the interaction between rock avalanche and substrate material
- XY400 EGU2011-8630
Giovanni Crosta and Paolo Frattini
Large scale reconstruction of fragmentation in a rock avalanche deposit
- XY401 EGU2011-9954
Rosanna Sosio, Giovanni B. Crosta, and Joanna H. Chen
Modeling rock avalanche propagation onto glaciers
- XY402 EGU2011-12960
Michel Jaboyedoff, Lars Blikra, Giovanni B. Crosta, Marc-Henri Derron, Reginald Hermanns, Thierry Oppikofer, and Andrea Pedrazzini
Susceptibility analysis of large rock instabilities

HS2.14/NH3.13 – Landslide hydrology: from hillslope hydrology to landslide understanding (co-organized) – Orals

Convener: Thom Bogaard | Co-Conveners: Jean-Philippe Malet, Roberto Greco, Emilia Damiano

Room: 36

Chairperson: n.n.

- 08:30–09:00 EGU2011-4548
Horst H. Gerke
Modelling of preferential flow in structured soils and along hillslopes
- 09:00–09:15 EGU2011-2415
Leopold Stadler, Kai Germer, and **Reinhard Hinkelmann**
Developing model concepts for simulating water infiltration into macroporous soils for understanding triggers for landslides
- 09:15–09:30 EGU2011-8247
Lucio Olivares, Roberto Greco, Andrea Guida, and Emilia Damiano
Physical and mathematical modelling of infiltration into layered pyroclastic covered slopes
- 09:30–09:45 EGU2011-9906
Vincent Marc, Stéphane Ruy, Olivier Poilleux, Thomas Madre, Michel Daniel, Bruno Jouaud, and Roland Simler
Flow processes investigation in soft clay shales from tracing experiments at laboratory scale
- 09:45–10:00 EGU2011-13951
Dominika Krzeminska and Thom Bogaard
On the influence of fissure flow on the landslide activity

COFFEE BREAK

Chairperson: n.n.

- 10:30–11:00 EGU2011-13704
Alessio Ferrari, Jordi Corominas, Lyessse Laloui, and Alberto Ledesma
Linking hydrogeological and geomechanical landslide modelling

- 11:00–11:15 EGU2011-1396
Okan Avci, Bernd Markert, and Wolfgang Ehlers
 Numerical investigation of landslide scenarios in laboratory and real scale
- 11:15–11:30 EGU2011-5796
Grigorios Anagnostopoulos and Paolo Burlando
 Hydrological Modelling of Slope Stability
- 11:30–11:45 EGU2011-5707
Elisa Arnone, Leonardo V. Noto, Chiara Lepore, and Rafael L. Bras
 A coupled stability and eco-hydrological model to predict shallow landslides
- 11:45–12:00 EGU2011-9779
Jonas von Ruette, Peter Lehmann, and Dani Or
 Catchment scale hydro-mechanical modeling of shallow landslides: dynamics and spatial distribution

HS2.14/NH3.13 – Landslide hydrology: from hillslope hydrology to landslide understanding (co-organized) – Posters

Convener: Thom Bogaard | Co-Conveners: Jean-Philippe Malet, Roberto Greco, Emilia Damiano

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- A247 EGU2011-8524
Cristiano Lanni, Jeff McDonnell, Riccardo Rigon, and Jurriaan Spaaks
 The influence of subsurface topography on the triggering of rainfall-induced shallow landslide: a laboratory study
- A248 EGU2011-1720
Kai Germer and Jürgen Braun
 Laboratory container experiments to observe slope failures under dynamic groundwater situations
- A249 EGU2011-10058
 Marco Peli, **Stefano Barontini**, Mark Bakker, Thom A. Bogaard, and Roberto Ranzi
 Numerical results on perched waters in 1D and sloping 2D gradually layered soils
- A250 EGU2011-13321
Sandy Budi Wibowo
 Potential indicator for future landslide behavior: duration between time of soil saturation and time of failure
- A251 EGU2011-11511
Francesco Ponziani, Nicola Berni, Claudia Pandolfo, Marco Stelluti, Luca Brocca, and Tommaso Moramarco
 An integrated approach for an operative early warning system of landslides forecasting based on rainfall thresholds and soil moisture assessment
- A252 EGU2011-9284
Davide Luciano De Luca, Giovanna Capparelli, Pasquale Versace, and Daniela Biondi
 Hydrological models for early warning of landslides induced by rainfall
- A253 EGU2011-4097
Federico Cervi, Vincent Marc, Catherine Bertrand, and Jean Philippe Malet
 Hydrogeochemical modelling of clay-rich landslides and anomalies in groundwater compositions: evidences from case studies in the northern Apennines of Italy and South Alps of French
- A254 EGU2011-8795
Federico Cervi, Francesco Ronchetti, Alessandro Corsini, Thom Bogaard, and Vincent Marc
 Hydrological and chemical characterization of an earth slide-flow
- A255 EGU2011-7646
Luzie Schnieders, Martin Kölling, and Horst D. Schulz
 What pore water geochemistry can reveal - Identification and Interpretation of the Geologic Record of young slide events
- A256 EGU2011-6634
Guérolé Mainsant, Guillaume Chambon, Denis Jongmans, Laurent Baillet, Eric Larose, and Grégory Bièvre
 Rheological behaviour of Trièves clay, and applications to landslide dynamics
- A257 EGU2011-6971
Amin Askarinejad, Alexander Beck, Francesca Casini, and Sarah M. Springman
 Measurement of unsaturated hydraulic conductivity with the instantaneous profile method
- A258 EGU2011-7952
 Benoît Deffontaines, **Sophie Violette**, Noémi d'Ozouville, Esben Auken, and Kurt Sorensen
 Landslides and hydrogeology in a volcanic island revealed from transient electromagnetic data, San Cristobal, Galapagos Archipelago
- A259 EGU2011-12491
Urs Böniger, Michael Rumpf, and Jens Tronicke
 Refraction seismics to explore subsurface architecture of a creeping alpine hillslope

- A260 EGU2011-7526
Steffen Popp-Hofmann, Daniel Altdorff, David Sauer, and Peter Dietrich
Geoelectrical exploration of subsurface structures and processes of the Alpine "Heumöser" hillslope
- A261 EGU2011-12343
Marco Walter and Manfred Joswig
Permanent seismic monitoring of fracture processes caused by fast water infiltrations at the Heumoes slope, Austria
- A262 EGU2011-2767
Elias Garcia Urquia and Kennet Axelsson
The Role of Antecedent Rainfall on the Activation of Landslides in Tegucigalpa, Honduras
- A263 EGU2011-3633
Julien Gance, Séverine Bernardie, Rosalie Vandromme, and Gilles Grandjean
Contribution of seismic tomography for taking soil variability into account in landslide stability numerical modelling
- A264 EGU2011-13774
Emilie Garel, **Anne-Laure Cognard-Plancq**, Michel Esteves, Nicolle Mathys, Sébastien Klotz, Dominique Renard, Micheline Debroux, and Vincent Marc
Monitoring water content in highly-clayey soils: calibration, temperature dependence and field use of "WCR" probes.
- A265 EGU2011-10995
Seraina Kauer, Philipp Schneider, Cornelia Brönnimann, Manfred Stähli, and Jan Seibert
Monitoring soil moisture dynamics at a hillslope prone to slide
- A266 EGU2011-7720
Wei Meng, Thom.A. Bogaard, and Rens van Beek
Dynamic effects of vegetation on the long-term stability of slopes: components of evaporation
- A267 EGU2011-6331
Kevin Briggs, Joel Smethurst, William Powrie, and Tony O'Brien
The influence of extreme wet weather on railway embankment hydrology
- A268 EGU2011-13945
Emilie Garel, Vincent Marc, Stéphane Ruy, Jean-Philippe Malet, Anne-Laure Cognard-Plancq, Christophe Emblanch, Sébastien Klotz, and Roland Simler
Analysis of water infiltration in soft clay-shale unstable hillslopes (South French Alps): proposition of a three reservoirs conceptual model.
- A269 EGU2011-12928
Cornelia Broennimann, **Clément Michoud**, Denis Jongmans, Ludovic Baron, Michel Jaboyedoff, Eric Larose, Guenole Mainsant, and Laurent Tacher
Hydrogeological processes on the active Pont Bourquin landslide, Swiss Alps
- A270 EGU2011-3143
Stella Pytharouli and Stathis Stiros
Mandria landslide (Greece): a different approach in the determination of the kinematics of a deep-seated landslide
- A271 EGU2011-9391
Jan Wienhöfer, Falk Lindenmaier, and Erwin Zehe
Hydrology and slope mobility at the Heumöser landslide in the Austrian Alps (Vorarlberg)
- A272 EGU2011-12899
Chadi Abdallah and Nicolas Baghdadi
Monitoring and surveying the catastrophic landslide of Jwaya-Lebanon
- A273 EGU2011-13725
Frank Molkenthin, Vikramjeet Notay, and Reinhard Hinkelmann
Web-Based Information System For Multi-Scale Physical State Variables Applied In Landslide Hydrology

NH4.1/SM5.8 – Seismo electro-magnetic phenomena and earthquakes precursors (co-organized) – Orals

Convener: Pier Francesco Biagi | Co-Conveners: Masashi Hayakawa, Oleg Molchanov, Tommaso Maggipinto

Room: 10

Chairperson: Pier Francesco Biagi

- 08:30–08:45 EGU2011-2358
Michel Parrot
Analysis of the DEMETER data related to seismic activity bringing Chile area into focus
- 08:45–09:00 EGU2011-13143
Jan Blecki, Michel Parrot, Ma?gorzata Ko?cieszka, and Roman Wronowski
Statistical analysis of the ELF turbulence registered in the ionosphere over the regions of the strong earthquakes by DEMETER satellite

- 09:00–09:15 EGU2011-10473
Mohammed Y. Boudjada, Konrad Schwingenschuh, Emad Al-Haddad, Michel Parrot, Patrick Galopeau, Bruno Besser, Günter Stangl, and Wolfgang Voller
 Effect of solar and geomagnetic activities on the reception of sub-ionospheric VLF transmitter signals by DEMETER micro-satellite
- 09:15–09:30 EGU2011-1511
Masashi Hayakawa, Yasushi Kasahara, Takashi Nakamura, Yasuhide Hobara, Shinichirou Asai, and Toru Inaba
 Observation of Doppler shifts of subionospheric VLF/LF signals and the seismic effect
- 09:30–09:45 EGU2011-1292
Valery Korepanov, Fedir Dudkin, Masashi Hayakawa, and Olha Leontyeva
 Local lithospheric magnetic activity before selected earthquakes in Japan
- 09:45–10:00 EGU2011-5195
Dimitar Ouzounov, Katsumi Hattori, Sergey Pulnits, Tiger Liu, Michel Parrot, Menas Kafatos, Patrick Taylor, Frank Yang, Kaori Oyama, and Shimpei Kon
 Integrated Sensing, Analysis and Validation of Atmospheric Signals Associated with Major Earthquakes

COFFEE BREAK

Chairperson: Masashi Hayakawa/Tommaso Maggipinto

- 10:30–10:45 EGU2011-1772
Oleg Molchanov and Alexander Schekotov
 To predict something is better than nothing
- 10:45–11:00 EGU2011-11575
 Mariano Lisi, Carolina Filizzola, Nicola Genzano, Nicola Pergola, and **Valerio Tramutoli**
 Reducing atmospheric effects on RST analysis by exploiting TIR split windows channels on MSG/SEVIRI satellite sensor: the case of Abruzzo earthquake (April 6, 2009; M_L–5.8)
- 11:00–11:15 EGU2011-4777
Francesco Mancini and Angelo Galeandro
 Assessing the ionospheric Total Electron Content (TEC) from GPS measurements as a possible precursor of high magnitude earthquakes
- 11:15–11:30 EGU2011-5987
Gerald Duma, Friedemann Freund, Max Lazarus, Taha Rabeh, and Robert Dahlgren
 New results on the solar impact on global seismicity
- 11:30–11:45 EGU2011-11007
Konrad Schwingenschuh, Alexander Rozhnoi, Maria Solovieva, Massimo Vellante, Umberto Villante, Petko Nenovski, Victor Wertzergom, Pier Francesco Biagi and the SEM Team
 Coordinated ground-based ULF and sub-ionospheric VLF seismo-electromagnetic investigations in Europe
- 11:45–12:00 EGU2011-4379
Yasuhide Hobara, Tasku Kamoi, and Masashi Hayakawa
 Statistical property of the ULF magnetic emissions in relation with Izu Island earthquake swarm in Japan

NH4.1/SM5.8 – Seismo electro-magnetic phenomena and earthquakes precursors (co-organized) – Posters

Convener: Pier Francesco Biagi | Co-Conveners: Masashi Hayakawa, Oleg Molchanov, Tommaso Maggipinto

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Pier Francesco Biagi/Masashi Hayakawa/Oleg Molchanov/Tommaso Maggipinto

- XY403 EGU2011-235
Alexander Rozhnoi, Maria Solovieva, Pier Francesco Biagi, Konrad Schwingenschuh, and Masashi Hayakawa
 LF signal spectrum analysis for strong earthquakes
- XY404 EGU2011-13698
Masha Solovieva, Alexander Rozhnoi, Michel Parrot, Konrad Schwingenschuh, Masashi Hayakawa, and Pier Francesco Biagi
 Correlation of VLF/LF variations from ground and satellite observations with magnetic activity and outer-zone particles
- XY405 EGU2011-264
Pier Francesco Biagi, Flavia Righetti, Tommaso Maggipinto, Anita Ermini, Iren Moldovan, Adrian Moldovan, Aydin Buyuksarac, Hugo da Silva, Mourad Bezzeghoud, and Michael Contadakis
 Analysis of the LF data collected by the European radio network during one year

- XY406 EGU2011-7444
Hugo Gonçalves da Silva, Cláudia Serrano, António Domingos Heitor Silva Reis, Mourad Bezzeghoud, Rui Namorado Rosa, José Fernando Borges, Bento Caldeira, Mouhaydine Tlemçani, and Pier Francesco Biagi
 Influence of seismic activity in the atmospheric electrical field in Lisbon (Portugal) from 1961 until 1991
- XY407 EGU2011-2376
Iren-Adelina Moldovan, Adrian Moldovan, Pier Francesco Biagi, Constantin Ionescu, Anica Otilia Placinta, Tommaso Maggipinto, Konrad Schwingenschuh, and Mohammed Y. Boudjada
 Present status and preliminary results obtained by the Romanian VLF/LF radio monitoring system as part of the INFREP European Network
- XY408 EGU2011-6669
Iren-Adelina Moldovan, Constantin Ionescu, Anica Otilia Placinta, Angela Constantin, Emilia Popescu, and Adrian Septimiu Moldovan
 Geomagnetic anomalies recorded at Muntele Rosu (Romania) seismic observatory and their statistical correlation with earthquake occurrence and solar magnetic storms
- XY409 EGU2011-2166
Palangio Paolo Giovanni and Di Lorenzo Cinzia
 Transient electromagnetic phenomena associated with L'Aquila earthquake
- XY410 EGU2011-2602
Palangio Paolo Giovanni and Di Lorenzo Cinzia
 Eulerian component of secular variation associated with the Mw 6.3 L'Aquila earthquake sequence of April 2009
- XY411 EGU2011-10502
Angelo De Santis, Gianfranco Cianchini, Cinzia Di Lorenzo, Domenico Di Mauro, Manuele Di Persio, Barbara Iezzi, Paolo Palangio, Enkelejda Qamili, and Lixin Wu
 Analysis of the geomagnetic field transfer functions during the 2009 L'Aquila seismic sequence
- XY412 EGU2011-1510
Masashi Hayakawa
 On the fluctuation spectra of seismo-electromagnetic phenomena
- XY413 EGU2011-2713
 Florian Fülbert, **Claudia-Veronika Meister**, Steffen Hauf, Uwe Bonnes, Peter Dziendziel, and Dieter H.H. Hoffmann
 The Darmstadt VLF radiophysical station VADAR for the detection of possible earthquake precursors
- XY414 EGU2011-12199
Claudia-Veronika Meister, Benjamin Mayer, and Dieter H.H. Hoffmann
 Modeling of ionospheric electromagnetic earthquake precursors
- XY415 EGU2011-10107
Gustav Prattes, Konrad Schwingenschuh, Hans Eichelberger, Manfred Stachel, Werner Magnes, Massimo Vellante, Umberto Villante, and Petko Nenovski
 Epicenter location determination by an ULF magnetic field polarization technique analyzing the 2009 L'Aquila earthquake
- XY416 EGU2011-13608
Panagiotis Kyriazis, Ilias Stavrakas, Cimon Anastasiadis, Dimos Triantis, and John Stonham
 Mechanically stimulated electric signals modelled as extreme micro-current distributions
- XY417 EGU2011-6469
Dimos Triantis, Cimon Anastasiadis, Ilias Stavrakas, and Filippos Vallianatos
 Electric signal emissions from rock samples used as failure predictors
- XY418 EGU2011-13528
 Anatoliy Kotsarenko, Vladimir Grimalsky, **Vsevolod Yutsis**, Roman Perez Enriquez, Svetlana Koshevaya, Gustavo Urquiza Beltran, Luis Ivan Medina Perez, Carlos Valdes Gonzales, and Ana Gabriela Bravo Osuna
 Final results of the Radon concentration study in volcano Popocatepetl area, Mexico, Dec 2007 - Dec 2009
- XY419 EGU2011-9666
Alejandro Ramírez-Rojas, Luciano Telesca, and Fernando Angulo-Brown
 Study of entropy in the natural time domain of geoelectrical time series monitored in Guerrero-Oaxaca, México.
- XY420 EGU2011-375
Ioseb Turazashvili and Nino Kachakhidze
 Problem of Identity of Acoustic and Electromagnetic Emission Area
- XY421 EGU2011-590
Kenichi Yamazaki
 Variations in the magnetic field arising from the propagation of teleseismic waves in magnetized crust with finite conductivity
- XY422 EGU2011-800
Vikram Singh and Birbal Singh
 Ground observation of electromagnetic emissions related to clusters of earthquakes

- XY423 EGU2011-2075
Yury Yasyukevich, Yury Bashkuev, Mikhail Dembelov, Vladimir Kovalenko, Vladimir Kurkin, Andrey Loukhnev, Natalia Perevalova, Ravil Rakhmatulin, Vladimir Sankov, Gellii Zherebtsov, Viktor Aleshkov, Sergey Ashurkov, Darima Buyanova, Yury Lipko, Sergey Molodykh, Idam Naguslaeva, Olga Pirog, Nelly Polekh, and Sergey Voeykov
 Coordinated measurements of ionospheric, electromagnetic and geodynamic parameters in the Baikal rift system in summer of 2009 and 2010
- XY424 EGU2011-6371
Tatsuo Onishi, Jean-Jacques Berthelier, and Masashi Kamogawa
 Critical analysis of plasma wave disturbances over the Sichuan region in a period encompassing the May 12, 2008 EQ
- XY425 EGU2011-13610
Victor Novikov
 Towards Earthquake Prediction Based on Electromagnetic Triggering Phenomena

NH4.3/SM5.1 – Seismic hazard evaluation, precursory phenomena and reliability of prediction (co-organized) – Orals

Convener: Michael E. Contadakis | Co-Conveners: Jochen Zschau, Thomas Xenos, Pier Francesco Biagi

Room: 11

Chairperson: Michael Contadakis

- 15:30–15:45 EGU2011-4540
Gerassimos Papadopoulos, Boris Di Fiore, and George Minadakis
 Short-Term Foreshocks and the Prediction of Mainshock in the Aftermath of L' Aquila Earthquake: A Global Review
- 15:45–16:00 EGU2011-9105
Sergey Pulinets and Dimitar Ouzounov
 Lithosphere-Atmosphere-Ionosphere Coupling (LAIC) model - an unified concept for earthquake precursors validation
- 16:00–16:15 EGU2011-11626
Valerio Tramutoli and the PRE-EARTHQUAKES Team
 PRE-EARTHQUAKES, an European FP7 Project for Integrating Observations and Knowledge for Earthquake Precursors Studies: preliminary results and perspectives.
- 16:15–16:30 EGU2011-3160
 m.e. Contadakis, c. Skeberis, d.t. Xenos, **t.d. Xenos**, and d.t. Arabelos
 Normalization and processing of VLF signals for the detection of seismic-ionospheric precursor phenomena using the Empirical Mode Decomposition Method and Neural Networks.
- 16:30–16:45 EGU2011-5598
Katsumi Hattori, Simpei Kon, and Masahide Nishihashi
 Ionospheric anomalies possibly associated with M \approx 6.0 Earthquakes in Japan area : Statistical analysis during 1998-2010 and some case studies
- 16:45–17:00 EGU2011-1744
Gulum Tanircan, Nino Tsereteli, Etibar Garaveliev, Bilge Siyahi, Otar Varazanashvili, Tahir Mammadli, Qurban Yethirmishli, Tamaz Cehlidze, Arif Axundov, and Erdal ?afak
 Seismic Hazard Assessment for Southern Caucasus-Eastern Turkey Energy Corridor

NH4.3/SM5.1 – Seismic hazard evaluation, precursory phenomena and reliability of prediction (co-organized) –

Posters

Convener: Michael E. Contadakis | Co-Conveners: Jochen Zschau, Thomas Xenos, Pier Francesco Biagi

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Michael Contadakis, Thomas Xenos, Jochen Zschau, Pier Francesco Biagi

- XY426 EGU2011-185
Savas Karabulut and Oguz Ozel
 Determination of Local Site Effect and 3-D Shear Wave Velocity Structure for City of Istanbul
- XY427 EGU2011-1184
Ioan Ionescu and Darko Volkov
 Could we detect earthquake nucleation from surface observations ?
- XY428 EGU2011-2154
Maria-Dolors Martinez and Xavier Lana
 Patterns of the seismic generation rate detected by the Southern California seismic network (SCSN).
- XY429 EGU2011-2249
 Elena V. Liperovskaya, Alexandra S. Silina, Victor A. Liperovsky, and **Claudia-Veronika Meister**
 Midnight variations of Es-spread in the ionosphere before earthquakes

- XY430 EGU2011-2387
Maling Yang, Daqing Chen, Yuanmin Huang, and Huiling Gong
Abnormal gas wells' pressure before and after the Wenchuan earthquake of Zhongba gas field in Sichuan province
- XY431 EGU2011-3075
Renata Gazdova, Oldrich Novotny, Jiri Malek, Jan Valenta, Milan Broz, and Petr Kolinsky
Groundwater level variations in the seismo-active region of western Bohemia in the years 2005-2010
- XY432 EGU2011-3852
Tatyana A. Smaglichenko, Andrey V. Gorbatiykov, Alexander V. Smaglichenko, and Aleksey V. Nikolaev
The role of seismic tomography for the Earthquake Early Warning system
- XY433 EGU2011-5372
Sin Mei Ng
Earthquake intensity scale problem in Taiwan as revealed by damaging events in the past decade
- XY434 EGU2011-5807
Andrea Antonioli, Simone Atzori, and Giuseppe Pezzo
Coseismic stress evolution, different patterns from different slip distributions
- XY435 EGU2011-6290
Elias Tsiapas, Despina Soumelidou, and Christos Tsiapas
EARTHQUAKES - VOLCANOES(Causes - Forecast - Counteraction)
- XY436 EGU2011-6517
Marco Amanti, Giuseppe Di Capua, Silvia Peppoloni, **Carlo Cipolloni**, Giovanni Conte, Danilo Avola, and Andrea Del Buono
The SEE-GeoForm WebGIS: a tool for seismic data and hazard analysis
- XY437 EGU2011-6639
Margarita Moisi, Derek Rust, Stephen Kershaw, Pantelis Soupios, Filippos Vallianatos, and Sabatino Piscitelli
Geological and geophysical evidences for seismic hazard assessment of northwestern and southwestern Crete (Greece)
- XY438 EGU2011-7875
Tensay Berhe and Wei Wu
Effect of valley shape on the seismic response of earthfill dam - a 3D numerical parametric study
- XY439 EGU2011-10588
Demetrios Pliakis, Taxiarchis Papakostas, and **Filippos Vallianatos**
A first principles approach to understand the physics of precursory accelerating seismicity
- XY440 EGU2011-10645
Filippos Vallianatos, Alexis Cartwright-Taylor, and Peter Sammonds
A spatiotemporal non-extensive approach to investigate seismicity of 6th April 2009, ML5.8, L'Aquila (Central Italy) earthquake.
- XY441 EGU2011-10690
Filippos Vallianatos, George Michas, George Papadakis, and Peter Sammonds
A non extensive statistical physics view to the June 1995, Aigion earthquake (M6.2) aftershock sequence (West Corinth rift).
- XY442 EGU2011-10723
Filippos Vallianatos and Peter Sammonds
Non-extensive thermodynamics applied to global seismicity before and after the Sumatran mega-earthquake.
- XY443 EGU2011-10810
Filippos Vallianatos, George Hloupis, and Ilias Papadopoulos
The Hellenic Seismological Network of Crete (HSNC): operation results and review of real time processing schemes. A contribution to seismic Hazard evaluation.

NH5.1 – New developments in tsunami science and in mitigation of tsunami risk, including early warning – Orals

Convener: Stefano Tinti | Co-Conveners: Ira Didenkulova, Helene Hebert

Room: 4

Chairperson: Stefano Tinti

- 08:30–08:45 EGU2011-1628
Mikhail Nosov and Anastasiya Moshenceva
Residual hydrodynamic fields in the ocean due to tsunamigenic earthquakes
- 08:45–09:00 EGU2011-101
Ira Didenkulova, Irina Nikolkina, Efim Pelinovsky, and Narcisse Zahibo
Tsunami waves generated by submarine landslides of variable volume
- 09:00–09:15 EGU2011-13429
José M. González Vida, Manuel J. Castro, Marc de la Asunción, Enrique D. Fernández-Nieto, Jorge Macías, and Carlos Parés
Modelling submarine avalanches and generated tsunamis. Application to tsunami effects forecasting.

- 09:15–09:30 EGU2011-9441
Fahad Mohammed and Hermann Fritz
Tsunami generation and propagation by 3D deformable granular landslides
- 09:30–09:45 EGU2011-3010
Stephane Popinet
Quadtree-adaptive tsunami modelling
- 09:45–10:00 EGU2011-4537
Gerassimos A. Papadopoulos, Elena Daskalaki, and Anna Fokaefs
The intensity field of tsunamis

COFFEE BREAK

Chairperson: Ira Didenkulova

- 10:30–10:45 EGU2011-4276
Emile Okal, Hermann Fritz, Mohammad Ali Hamzeh, Javad Ghasemzadeh, and Majid Naderi
Field survey of the 1945 Makran Tsunami in Southeastern Iran
- 10:45–11:00 EGU2011-2891
Finn Løvholt, Geir Pedersen, Sara Bazin, Daniela Kühn, and Carl Bonnevie Harbitz
Tsunami run-up variability due to heterogeneous slip on the fault plane
- 11:00–11:15 EGU2011-2996
Carl Bonnevie Harbitz, Kjetil Sverdrup-Thygeson, Gunilla Kaiser, Rowan Swamy, Laura Gruenburg, Sylfest Glimsdal, Finn Løvholt, Brian McAdoo, and Regula Frauenfelder
GIS methodologies for local tsunami risk assessment - validation for the 2009 South Pacific tsunami in American Samoa
- 11:15–11:30 EGU2011-3702
José A. Álvarez-Gómez, Omar Quetzalcoatl Gutierrez Gutierrez, Íñigo Aniel-Quiroga, Mauricio González, Paolo Estrada, Miguel Castro, Jennifer Larreynaga, Francisco Gavidia, and Emilio Carreño
Tsunami risk assessment on the coast of El Salvador (Part I: Hazard).
- 11:30–11:45 EGU2011-6462
Andrea Argnani, Stefano Tinti, Alberto Armigliato, Claudia Bonazzi, Filippo Zaniboni, Gianluca Pagnoni, and Roberto Tonini
Active tectonics along the submarine slope of south-eastern Sicily: The case of the 1693 earthquake and tsunami
- 11:45–12:00 EGU2011-3042
Alberto Armigliato, Stefano Tinti, Andrea Argnani, Filippo Zaniboni, Gianluca Pagnoni, and Roberto Tonini
A review of the 11th January 1693 eastern Sicily tsunami: what can numerical modelling tell us about the source?

LUNCH BREAK

Chairperson: Helene Hebert

- 13:30–13:45 EGU2011-6474
Paolo Marco De Martini, Alessandra Smedile, and Daniela Pantosti
New developments in paleotsunami research: inland and offshore multiple records from the Augusta Bay (eastern Sicily, ITALY)
- 13:45–14:00 EGU2011-3313
Nevio Zitellini and the NEAREST Team
Development of a Tsunami Early Warning System (TEWS) Prototype based on the direct monitoring of a potential tsunamigenic structure located near the coasts of SW Iberia: Preliminary results of the EU Project NEAREST
- 14:00–14:15 EGU2011-11960
Maria Ana Baptista, Miguel Miranda, Alessandro Annunziato, Giovanni Francello, Rachid Omira, Luis Matias, and Joao Catalão
Lessons on past tsunamis impacting Lisbon area, and consequences for tsunami alert.
- 14:15–14:30 EGU2011-11387
Alexander Rudloff, Joern Lauterjung and the GITEWS Project (AWI, BGR, DLR, GFZ, GIZ/GTZ, HZG/GKSS, IFM-GEOMAR, KDM, UNU-EHS) Team
The German Indonesian Tsunami Early Warning System (GITEWS) - Experiences, Results & Visions

- 14:30–14:45 EGU2011-11015
Joachim Wächter, Jens Fleischer, Rainer Häner, Andreas Küppers, Matthias Lendholt, and Martin Hammitzsch
 Development of Tsunami Early Warning Systems and Future Challenges
- 14:45–15:00 EGU2011-14189
Anne Deschamps
 RATCOM: an early-warning pilot network for near-field tsunamis in the Ligurian Sea

NH5.1 – New developments in tsunami science and in mitigation of tsunami risk, including early warning – Posters

Convener: Stefano Tinti | Co-Conveners: Ira Didenkulova, Helene Hebert

Halls XY | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Stefano Tinti

- XY444 EGU2011-303
Jennifer DuBois, Tim Davies, and Deirdre Hart
 The plausibility of a submarine landslide generated tsunami at Kaikoura Canyon
- XY445 EGU2011-1587
Roberto Tonini, Alberto Armigliato, Stefano Tinti, and Gianluca Pagnoni
 Investigation on the possible source of the 27 February 2010 Chile earthquake through tsunami numerical simulations and comparison between calculated and observed data.
- XY446 EGU2011-1631
Mikhail Nosov and Anna Bolshakova
 Tsunami source parameters versus earthquake magnitude and depth: Monte Carlo simulation
- XY447 EGU2011-1942
Lidia Bressan, Stefano Tinti, Filippo Zaniboni, and Gianluca Pagnoni
 How to calibrate a Tsunami Early Detection Algorithm for a site with no instrumental tsunami records: the example of Catania, Italy
- XY448 EGU2011-2573
 Alexandre Sahal, Julie Morin, **Franck Lavigne**, and François Schindele
 Indian Ocean transoceanic tsunamis affecting La Réunion Island, France
- XY449 EGU2011-2884
Finn Løvholt, Gopinath Gopalakrishnan, Srinivasa Raju, and Carl Bonnevie Harbitz
 Simulation of earthquake tsunami inundation along the Tamil Nadu coastline, India
- XY450 EGU2011-3094
 Nurcan Meral Özel, **Öcal Necmio?lu**, Ahmet Cevdet Yalç?ner, Do?an Kalafat, U?ur ?anl?, Mehmet Y?Imazer, Mustafa Çomo?lu, Cemil Gürbüz, and Mustafa Erdik
 Establishing a Tsunami Warning Center in Turkey
- XY451 EGU2011-3241
Hande Aykurt Vardar, Selma Unlu, Yildiz Altinok, Bedri Alpar, Naside Ozer, Nuray Balkis, Sena Akçer Ön, and Cenk Yalt?rak
 Assessment of Tsunami Impacts on the Kocasu Region (Sea of Marmara, Turkey)
- XY452 EGU2011-4610
Gianluca Pagnoni, Stefano Tinti, Alberto Armigliato, Roberto Tonini, and Filippo Zaniboni
 Tsunami vulnerability assessment for harbours of the Adriatic coast of Apulia, Italy, performed through the worst-case tsunami scenarios approach
- XY453 EGU2011-4770
Filippo Zaniboni, Stefano Tinti, Gianluca Pagnoni, Enrica Marotta, Giovanni Orsi, Marta Della Seta, and Paola Fredi
 A preliminary study of tsunami vulnerability in the Gulf of Naples based on scenarios of tsunamigenic landslide occurrences in the island of Ischia.
- XY454 EGU2011-4910
Sara Carolina Gallazzi, Stefano Tinti, Alberto Armigliato, and Alessandra Maramai
 Tsunami hazard assessment in the Mediterranean: results from the analysis of the TRANSFER project tsunami catalogue and from a hybrid statistical-deterministic approach
- XY455 EGU2011-806
Ceren Ozer, Ahmet Cevdet Yalciner, Andrey Zaytsev, and Efim Pelinovsky
 General View of Dispersion in Tsunami Modeling
- XY456 EGU2011-5716
Raissa Mazova, Boris Baranov, and Karina Dozorova
 Numerical simulation of possible earthquake-generated tsunami in Komandorskiy seismic gap, western Aleutian arc
- XY457 EGU2011-5741
Rick van Adrichem, Rafael Aránguiz Muñoz, and Deepak Vatvani
 Tsunami Inundation Simulations in the Bay of Concepción, Chile using TUNAMI and Delft3D models

- XY458 EGU2011-5855
Tatyana Voronina
Reconstruction of the Initial Tsunami Waveform by SVD Technique
- XY459 EGU2011-6094
Victor Kaystrenko and Nadezhda Razzhigaeva
Some peculiarities of using paleotsunami data for creation of tsunami recurrence function
- XY460 EGU2011-6265
Mikhail Nosov, Anna Bolshakova, Shusaku Inoue, Sergey Kolesov, Hiroyuki Matsumoto, and Tatsuo Ohmachi
Hydroacoustic resonance in the 2003 Tokachi-oki tsunami source
- XY461 EGU2011-6787
Nicole Giraleas and Gerassimos Papadopoulos
On the little-known tsunami associated with the strong earthquake of 26 November 1595 in Crete island, Hellenic Arc
- XY462 EGU2011-7245
Ira Didenkulova and Efim Pelinovsky
Abnormal amplification of tsunami waves at special bottom geometries
- XY463 EGU2011-7264
Audrey Gailler, H el ene H ebert, Anne Loevenbruck, and Bruno Hernandez
Forecasting database for the tsunami warning center for the western Mediterranean Sea
- XY464 EGU2011-7270
Mira Pasari?, Beatriz Brizuela, Alessandra Maramai, and Mirko Orli?
Historical Tsunamis on the Eastern Coast of the Adriatic
- XY465 EGU2011-8130
Omira Rachid, Baptista Maria Ana, Mellas Samira, and Leone Frederique
The November 1st, 1755 tsunami in Morocco- uncertainties in Historical reports and consequences for the future TWS in the area
- XY466 EGU2011-8960
Brent Henderson, **Kathleen Hodgkinson**, Dave Mencin, Adrian Borsa, and Mike Jackson
PBO Borehole Strainmeter Recordings Of Tsunami on the West Coast of North America
- XY467 EGU2011-10028
Camille Daubord, S ebastien Allgeyer, Ronan Creach, and H el ene Hebert
Western Mediterranean and North Atlantic tsunamis: inventory and analysis of tide gauge data
- XY468 EGU2011-10121
Georgy Shevchenko, Artem Loskutov, and Alexander Shishkin
Samoa (30.09.2009) and Chilean (28.02.2010) tsunami recording in the bays of Shikotan Island (South Kuril Islands)
- XY469 EGU2011-10383
Alessandra Maramai, Stefano Tinti, Laura Graziani, Alberto Armigliato, and Sara C. Gallazzi
Applicability of the NEAMTWS Decision Matrix for the Mediterranean to the Italian tsunamis
- XY470 EGU2011-10623
Alexey Androsov
Landslide model: verification and validation
- XY471 EGU2011-10668
S ebastien Allgeyer, H ebert H el ene, and Ra ul Madariaga
Tsunami hazard assessment for French coastlines constrained by numerical modeling
- XY472 EGU2011-12452
Robert Weiss, Justin O'Shay, and Costas Synolakis
Initial waves from submarine landslides
- XY473 EGU2011-13880
Alexandre Sahal, Mathieu Labb e, Anne Lemahieu, Camille Daubord, Claire Donnadi e, and **H el ene H ebert**
The 1979 Nice airport tsunami (French Riviera): comparison between field investigations and a refined numerical modelling of the landslide and consecutive tsunami
- XY474 EGU2011-13067
Annalisa Gardi, Nathalia Valencia, Tugdual Sala un, St ephanie Laisse, and Richard Guillaude
Numerical simulation of tsunami on French Mediterranean coasts using very high resolution Digital Terrain Models (based on photogrammetry, multibeam, LIDAR data and field validation)
- XY475 EGU2011-12485
Robert Weiss, Andrew Munoz Munoz, Robert Dalrymple, Alexis Herault, and Guiseppa Bilotta
3D long-wave runup with GPU-SPHysics
- XY476 EGU2011-13598
Burak Uslu, Marie Eble, and Chris Chamberlin
Modeling influence of tide stages on forecasts of the 2010 Chilean tsunami

- XY477 EGU2011-1476
Catherine Chagué-Goff, James Goff, Walter Dudley, Atun Zawadzki, John Bennett, Henk Heijnis, Scott Nichol, Scott Mooney, Claire Courtney, and Dale Dominey-Howes
 Multi-proxy analysis of an enigmatic sand layer in Pololu Valley, Hawaii: tsunami or storm deposit?
- XY478 EGU2011-10355
Ergin Ulutas and Alessandro Annunziato
 Pre-defined earthquake source mechanism parameters for Tsunami Early Warning in Mediterranean Region
- XY479 EGU2011-12034
Nathalia Valencia, Richard Guillaude, and Annalisa Gardi
 Coupling of Tsunami modelled flow depth and current velocity for analysis and mapping of impact on human being, buildings and accessibility of the inundated area
- XY480 EGU2011-4768
Stefano Tinti, Alberto Armigliato, Lidia Bressan, and Gianluca Pagnoni
 The role of a decision support system (DSS) in tsunami early warning for near-field sources

NH8.1/BG1.13/SSS1.10 – Heavy-metal contamination of the environment (co-organized) – Orals

Convener: Jennifer A. Holden | Co-Conveners: Höpke Andresen, Bruce D. Malamud, Loretta Li

Room: 2

Chairperson: J.A. Holden and L. Li

 10:30–11:20 **2 minute Poster Summaries**

 11:20–12:00 **Discussion**

NH8.1/BG1.13/SSS1.10 – Heavy-metal contamination of the environment (co-organized) – Posters

Convener: Jennifer A. Holden | Co-Conveners: Höpke Andresen, Bruce D. Malamud, Loretta Li

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY481 EGU2011-855
Al-Duc Nguyen, Jian-xin Zhao, Yue-xing Feng, Kefu Yu, Wan-ping Hu, and Trung-Ba Pham
 High-resolution rare earth and other trace metal records in Porites sp. coral in Nha Trang Bay (Viet Nam), western South China Sea: Impact of recent coastal development and human activities
- XY482 EGU2011-11981
Muhammad Imran Irfan, Thomas Meisel, and Friedrich Pichler
 The extent of anthropogenic and geogenic contamination in an industrial alpine area in Leoben, Austria
- XY483 EGU2011-12958
 Tyler B. Smith and **Philip N. Owens**
 Sediment-associated metals in streams draining agriculture, forestry and mining in the Quesnel River Basin, British Columbia, Canada
- XY484 EGU2011-7461
Sheng Wei, Wang, Chen Wuing Liu, Ta Wei Chang, and Yu Hsuan Kao
 Transformation of inorganic As species in groundwater samples with the presence of Fe(II)/Fe(III)
- XY485 EGU2011-23
 Farid Moore, **azizeh aghazadeh**, and Behnam Keshavarzi
 Metal toxicity in the stream sediments surrounding sungun porphyry copper deposit, NW, Iran
- XY486 EGU2011-333
Sezin Oeztan and Rolf-Alexander Duering
 Determination of the pseudo total metal content of environmental matrices by different extraction methods
- XY487 EGU2011-157
Thomas Hanauer, Levan Navrozashvili, Sylvia Schnell, Diedrich Steffens, Besik Kalandadze, Tengiz Urushadze, and Peter Felix-Henningsen
 Impact of non-ferrous metal mining on soil functions in the Mashavera valley, Georgia
- XY488 EGU2011-159
Thomas Hanauer, Stephan Jung, Diedrich Steffens, Levan Navrozashvili, Besik Kalandadze, and Peter Felix-Henningsen
 In situ remediation of Cd, Cu and Zn contaminated topsoils by different amendments
- XY489 EGU2011-7306
Adam Lukasik, Zygmunt Strzyszc, and Marcin Szuszkiewicz
 Magnetic susceptibility enhancement in soils of urban parks of Upper Silesia region (Poland) as pollution indicator
- XY490 EGU2011-10751
Michal Piwnik
 Evaluation of soil texture and change in amounts of heavy metals in soil under industrial pressure

- XY491 EGU2011-10774
Hülya Kaplan, Stefan Ratering, Thomas Hanauer, Peter Felix-Henningsen, and Sylvia Schnell
Impact of a trace metal contamination from mining activity on soil microbial communities and respiration activity of irrigated Kastanozem soils in Georgia
- XY492 EGU2011-9499
Bozena Sosak-Swidarska
The soil fungi communities and risk assessment of heavy metal contaminated soils management
- XY493 EGU2011-11718
Tania Teran-Mita, **Angel Faz**, Flor Salvador, and Joselito M. Arocena
Small-Scale Gold Mines in Andean region of Bolivia: Mercury in soils and plants from burning areas
- XY494 EGU2011-468
Levan Navrozashvili, Thomas Hanauer, Besik Kalandadze, Tengiz Urushadze, Diedrich Steffens, and Peter Felix-Henningsen
Transfer of Cd, Cu and Zn from soil into food crops in the Mashavera Valley, Georgia
- XY495 EGU2011-1751
Silvia Fontana, Claudio Bini, Mohammad Wahsha, and Martina Bullo
Heavy metals contamination in soils and their transfer to common wheat (*Triticum aestivum* L.): a case study
- XY496 EGU2011-13568
Manuela Inácio, Eduardo Ferreira da Silva, Virgínia Pereira, Anne-Marie Guihard-Costa, and Sandra Valente
Accumulation of potentially harmful elements in soils and forage plants in the Industrial area of Estarreja, Portugal
- XY497 EGU2011-11588
Melanie longchamp, Nicolas Angeli, Philippe Biron, Thierry Bariac, and Maryse Castrec-Rouelle
Determination of selenium species in *Zea mays* samples by enzymatic extraction and HPLC-ICP-MS
- XY498 EGU2011-419
nathalie fagel
Atmospheric mercury deposition during the last 1500 years in Western Europe: The Misten peat bog record (Hautes Fagnes - Belgium)
- XY499 EGU2011-11443
Jose A. Acosta, **Angel Faz**, Karsten Kalbitz, Boris Jansen, and Silvia Martinez-Martinez
Heavy metals concentration in street dust from different land uses in Murcia (SE Spain)
- XY500 EGU2011-11484
Jose A. Acosta, **Angel Faz**, Karsten Kalbitz, Boris Jansen, and Silvia Martinez-Martinez
Distribution of metals in particle size fractions from street dust of Murcia (Spain)
- XY501 EGU2011-14045
Susana Fernández, Manuel Antonio González, Cristina Santín, and Miguel Angel Alvarez
The role of salt marshes as heavy metal sinks in cantabrian seaboard (Bay of Biscay)
- XY502 EGU2011-238
Agnieszka Medyńska-Juraszek and Cezary Kabała
Heavy metal mobility in humus layers impacted by copper industry in SW Poland
- XY503 EGU2011-3810
Markus Puschenreiter
The GREENLAND project: gentle remediation of trace element contaminated land
- XY504 EGU2011-4357
Yoon-Su Kim, **Hyo-Taek Chon**, and Jong-Un Lee
Bioleaching of Heavy Metals in Contaminated Soils of the Old Smelting Site by Microbiological Sulfur Oxidation
- XY505 EGU2011-7589
Lucian Petrescu, Essaid Bilal, and Luisa Elena Iatan
Phytostabilization of actinide-contaminated soils (East Carpathians, Romania)
- XY506 EGU2011-183
Li Huang, **Loretta Li**, and Ken Hall
Removal of trace metals from contaminated street and wetland sediments with a biosurfactant (Saponin) and an artificial surfactant (SDS)

NH8.2 – Medical Geochemistry: processes occurring at interfaces between geological materials and human health – Orals

Convener: Paolo Censi | Co-Conveners: Yigal Erel, Thomas Darrah, Sandro Drago, Maria Luigia Giannossi

Room: 2

Chairperson: Thomas Darrah, Yigal Erel & Paolo Censi

- 13:30–13:45 EGU2011-13128
Thomas Darrah, M. Ellen Campbell, Dario Tedesco, Matthew Horton, and Robyn Hannigan
The Development and Application of Cryogenic Laser Ablation ICP-MS (CLA-ICP-MS) for Trace Elemental Analysis of Biological Tissues

- 13:45–14:00 EGU2011-11820
Valentina Rimondi, Pilario Costagliola, John Gray, **Orlando Vaselli**, Marco Benvenuti, and Piero Lattanzi
Mercury diffusion in fish of the Hg mining district of Monte Amiata (Southern Tuscany, Italy)
- 14:00–14:15 EGU2011-1157
Elisa Tamburo, Gaetano Dongarrà, Daniela Varrica, and Daniela D'Andrea
Trace elements in hair of urban schoolboys: a diagnostic tool in environmental risk assessment
- 14:15–14:30 EGU2011-13172
Amanda Carey, Thomas Darrah, Ellen Campbell, Robyn Hannigan, Emilio Cuoco, and Robert Poreda
The Effects Of Coal-Fired Power Plant Emissions And Fly Ash On A Regional Watershed
- 14:30–14:45 EGU2011-10333
David Damby and Claire Horwell
factors affecting the potential toxicity of volcanic ash
- 14:45–15:00 EGU2011-608
Francisco Blanco, Montserrat López-Mesas, Silvia Serranti, Giuseppe Bonifazi, Josef Havel, and Manuel Valiente
NIR-Hyperspectral Imaging and Artificial Neural Networks for the Characterisation of Renal Calculi

NH8.2 – Medical Geochemistry: processes occurring at interfaces between geological materials and human health – Posters

Convener: Paolo Censi | Co-Conveners: Yigal Erel, THomas Darrah, Sandro Drago, Maria Luigia Giannossi

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Paolo Censi & Maria Luigia Giannossi

- XY507 EGU2011-1664
Paolo Censi, Loredana Antonella Randazzo, Elisa Tamburo, Pierpaolo Zuddas, Angela Cuttitta, and Maria Luigia Giannossi
How trace element distributions can be used to probe human exposure to atmospheric fallout
- XY508 EGU2011-13343
Emilio Cuoco, Dario Tedesco, Charles Balagazi, Antonio Spagnuolo, Ellen Campbell, Jeremy Williams, Robyn Hannigan, and Robert Poreda
Evaluating The Potential Toxic Metal Aerosol Exposure In The Virunga Volcanic Province Stemming From The Nyiragongo And Nyamuragira Volcanoes, D.R. Of Congo
- XY509 EGU2011-1088
Nivi Kessler, **Ofir Tirosh**, Uri Dayan, Shimshon Belkin, James Schauer, and Yigal Erel
Characterization and Source Apportions of Local and Foreign PM2.5 in the Middle East under Different Synoptic Conditions
- XY510 EGU2011-13231
Maximilian Mandl, Thomas Darrah, Emilio Cuoco, Antonio Spagnuolo, Charles Balagazi Balagazi, Ellen Campbell, Kenneth Sims, Robert Poreda, and Dario Tedesco
Using Trace Element And Noble Gas Geochemistry To Evaluate Volcanic Hazards At The Nyiragongo And Nyamuragira Volcanoes, D.R. Of Congo
- XY511 EGU2011-6055
Tiziana Masullo, Valeria Vetri, Valeria Militello, Angela Cuttitta, and Paolo Censi
Green fluorescent Protein from *Aequorea coerulescens* behavior
- XY512 EGU2011-645
Olga Belyaeva
Quality of honey as a risk factor to the health of Armenia's population
- XY513 EGU2011-2198
Maria Luigia Giannossi and Vito Summa
Trace element investigations in kidney stones: a pilot case in Basilicata (southern Italy)
- XY514 EGU2011-9210
Alex Eisen-Cuadra and Robyn Hannigan
Assessment of Groundwater Availability, Water Quality, and Habitat of the Étang Saumâtre region, Haiti following the 01-12-2010 Earthquake
- XY515 EGU2011-5084
Pierpaolo Zuddas
The Abiotic versus Biotic Control of Magnetites Formation

NH8.3 – Radon and Other Naturally Occurring Radioactive Hazards – Orals

Convener: Robin Crockett | Co-Conveners: Gavin Gillmore

Room: 2

Chairperson: Gavin Gillmore

- 08:30–08:45 EGU2011-2815
Vivek Walia, Tsanyao Frank Yang, Ching-Chou Fu, Shih-Jung Lin, Kuo-Liang Wen, and Cheng-Hong Chen
 Study of Fault Traces in Taiwan Using Soil-gas Geochemistry
- 08:45–09:00 EGU2011-602
Arvind Kumar, Surinder Singh, Bikramjit Singh Bajwa, Sandeep Mahajan, Sunil Dhar, Vivek Walia, and Tsanyo Frank Yang
 Application of statistical analysis for Soil gas radon concentration for earthquake studies
- 09:00–09:15 EGU2011-1243
 Neves Luis, Alcides Pereira, **Dolores Pereira**, Mercedes Peinado, and Ildfonso Armenteros
 Radiological study of building stones from a Spanish Region: Castilla and Leon
- 09:15–09:30 EGU2011-13737
Leena Kamra, Vinay Mohan Choubey, and Irfan Ahmad
 Soil and Groundwater Radon variations in different geological formations of Bhilagana valley, Garhwal Himalaya, India
- 09:30–09:45 EGU2011-13740
Mahajan Sandeep, Bikramjit Singh Bajwa, Vivek Walia, Arvind Kumar, Surinder Singh, and Tsanyo Frank Yang
 Active fault studies, using soil gas method, in tectonically actives zones of Himachal Pradesh state, India
- 09:45–10:00 EGU2011-11366
David Wertheim, Gavin Gillmore, Louise Brown, and Nick Petford
 Analysis and 3D visualisation of tracks in Solid state Nuclear Track Detectors

NH8.3 – Radon and Other Naturally Occurring Radioactive Hazards – Posters

Convener: Robin Crockett | Co-Conveners: Gavin Gillmore

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Robin Crockett

- XY516 EGU2011-10964
Hedvig Eva Nagy, Csaba Szabó, Ákos Horváth, and Attila Kiss
 Radiometric measurements in Pál-völgy show cave (Budapest, Hungary)
- XY517 EGU2011-11724
Katalin Zsuzsanna Szabó, Ákos Horváth, László Pásztor, and Csaba Szabó
 Geogenic radon potential map of Pest County, Hungary: Methodology of field measurements
- XY518 EGU2011-3354
Shivvaran singh Raghuwanshi
 Radon Background Fluctuations and Radiometric Determination of Uranium, Thorium and Potassium
- XY519 EGU2011-10420
Massimo Bochiolo, Massimo Verdoya, Paolo Chiozzi, Vincenzo Pasquale, Enrico Chiaberto, and Mauro Magnoni
 Evaluation of radon specific exhalation in uranium-rich metamorphic rocks
- XY520 EGU2011-4512
Robin Crockett
 Monte-Carlo Simulation of Radon Equilibrium Under Varying Conditions.
- XY521 EGU2011-13685
Gavin Gillmore and Robin Crockett
 Session Keynote: Radon, Health and Natural Hazards and IGCP Project 571.
- XY522 EGU2011-11726
Gavin Gillmore, Asif Khan, Malcolm Tadd, and Paul Sowan
 Reigate Caves, UK: a historic sand mine system - real-time radon concentration survey results and time-averaged SSNTDs.
- XY523 EGU2011-8411
Gavin Gillmore, Tadeusz Przylibski, and Naghi Jabarivasal
 Dissolved radon in well waters in Hamadan, Iran.
- XY524 EGU2011-11774
Tadeusz Przylibski, Katarzyna Zago?d?on, and Pawe? Zago?d?on
 Dependence of Rn-222 concentration changes in water of stream on the distance from the spring
- XY525 EGU2011-13735
Vinay Mohan Choubey, Naresh Kumar, Baldev Raj Arora, and Leena Kamra
 Assessment of four years continuous radon variability in the borehole in Garhwal Himalaya
- XY526 EGU2011-5373
Asta Gregori? and Janja Vaupoti?
 Radon concentration and ventilation in two different passages in the Postojna Cave

ST5.1/NH8.6 – Space Weather and its Effects on Terrestrial and Geo-Space Environments: Science and Applications (co-organized) – Orals

Convener: Norma Crosby | Co-Conveners: Mirela Voiculescu, Aleksey Dmitriev

Room: 32

Chairperson: Norma Crosby

- 15:30–15:45 EGU2011-13709
Ioanna Tsagouri
On the assessment of space weather models for operational use: evaluation of the performance of ionospheric forecasting models
- 15:45–16:00 EGU2011-2662
Maria Elena Innocenti, Giovanni Lapenta, Lapo Bettarini, Ed Lee, Stefano Markidis, Bojan Vrsnak, Manuela Temmer, Astrid Veronig, Francois Crespon, Chafih Skandrani and the Soteria Space-Weather Forecast & Data Assimilation Team
Solar wind forecasting: a method based on data assimilation with Kalman filters
- 16:00–16:15 EGU2011-11171
Andreja Susnik and Biagio Forte
Ionospheric scintillation activity measured in the African region by means of GNSS signals
- 16:15–16:30 EGU2011-7928
Paul Prikryl, Ian G. Richardson, Periyadan T. Jayachandran, and Sajan C. Mushini
GPS phase scintillation at high latitudes following near-earth interplanetary coronal mass ejections
- 16:30–16:45 EGU2011-5888
Sean Bruinsma and Thierry Dudok de Wit
Optimal Solar Inputs for use in Upper Atmosphere Density Models
- 16:45–17:00 EGU2011-232
Tatiana Novikova, Oleg Shumilov, Elena Kasatkina, and Alexey Chramov
Cosmophysical and natural factors, and trauma occurrence level of people working and living behind the polar circle.
- 17:00–17:15 EGU2011-6476
Gareth Lawrence, **Simon Reid**, Eva Robbrecht, Michel Kruglanski, Rowena Smillie, Norbert Jakowski, Daniel Heynderickx, Pablo Beltrami, and Truls-Lynne Hansen
Space Weather Precursor Services under ESA's SSA programme

ST5.1/NH8.6 – Space Weather and its Effects on Terrestrial and Geo-Space Environments: Science and Applications (co-organized) – Posters

Convener: Norma Crosby | Co-Conveners: Mirela Voiculescu, Aleksey Dmitriev

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Norma Crosby

- Z155 EGU2011-8403
Gerald Duma, Friedemann Freund, Max Lazarus, and Taha Rabeh
Coupled ionospheric and telluric electromagnetic fields - seismotectonic relevance
- Z156 EGU2011-1629
Oleg Shumilov, Elena Kasatkina, Vladimir Masloboev, Alexandr Kanatjev, Mauri Timonen, Kari Mielikainen, Natalia Lukina, and Irina Kirtsideli
Solar and volcanic signals in tree-rings from Kola Peninsula and Northern Lapland
- Z157 EGU2011-1630
Elena Kasatkina, Oleg Shumilov, Marja-Liisa Sutinen, Alexey Chramov, Alexey Enykeev, and Tatiana Novikova
Search for solar and lunar rhythms in suicides in European Arctic (Northwest of Russia and Finnish Lapland)
- Z158 EGU2011-10841
Tamara Breus, Yurii Gurfinkel, Vadim Ozheredov, and Tatyana Zhenchenko
The threshold effects of Space and Terrestrial weather influence on human physiological parameters
- Z159 EGU2011-4626
Tamara Breus, Vadim Ozheredov, and Vladimir Obridko
Analysis of the solar activity dynamics by the method of nonlinear singular forecasting
- Z160 EGU2011-13402
Peter Stauning
Seasonal variations in the monitoring by PCN and PCS indices of Solar Wind energy input to the Magnetosphere.
- Z161 EGU2011-10581
Consuelo Cid, Yolanda Cerrato, Walter D. Gonzalez, and Elena Saiz
A new solar wind-magnetosphere coupling function

- Z162 EGU2011-5073
Edwin Catalan, Lorena Gayarre, Oscar García, **Juan Jose Blanco**, Jose Medina, Sebastian Sanchez, Manuel Prieto, and Daniel Meziat
Castilla-La Mancha Neutron Monitor (CaLMa) GEANT4 simulations
- Z163 EGU2011-5085
Edwin Catalan, **Juan Jose Blanco**, Jose Medina, Oscar Garcia, Javier Rodriguez-Pacheco, and Miguel Angel Hidalgo
Castilla-La Mancha Neutron Monitor (CaLMa) expected response to solar events using the neutron monitor data base (NMDB)
- Z164 EGU2011-5101
Jose Medina, **Juan Jose Blanco**, Oscar García, Edwin Catalan, Daniel García, Daniel Meziat, Javier Rodriguez-Pacheco, Sebastian Sanchez, Manuel Prieto, and Miguel Angel Hidalgo
Castilla-La Mancha neutron monitor (CaLMa) status at April 2011
- Z165 EGU2011-5184
Kazi Abul Firoz, Yong-Jae Moon, Kyung-Suk Cho, Jung-A Hwang, Yong-Deuk Park, Karel Kudela, and Lev Dorman
Relationship between GLE and Solar X-ray Flare
- Z166 EGU2011-10824
Richard Boynton, Michael Balikhin, Stephen Billings, and Ping Li
Dynamical model for the evolution of Dst
- Z167 EGU2011-11701
Costel Munteanu, Stein Haaland, and Bagrat Mailyan
Improved estimation of propagation times of short-term IMF variations using minimum variance analysis and wavelet de-noising techniques
- Z168 EGU2011-9727
Aleksey Dmitriev, Alla Suvorova, and Igor Veselovsky
Magnetosphere Expansion On Recovery Phase Of Recurrent Magnetic Storms
- Z169 EGU2011-3717
Daniel Weimer and C. Robert Clauer
A new Model for Predicting Geomagnetic Perturbations
- Z170 EGU2011-12876
Kalevi Mursula, Eija Tanskanen, and Jeffrey Love
Spring-Fall asymmetry of substorm strength, geomagnetic activity and solar wind: Implications for semiannual variation and solar hemispheric asymmetry
- Z171 EGU2011-9709
Diana Besliu-Ionescu, Oana Chiricuta, Marilena Mierla, and Georgeta Maris
Study of Halloween 2003 events
- Z172 EGU2011-9691
Oana Chiricuta, Diana Besliu-Ionescu, Marilena Mierla, and Georgeta Maris
Analysis of coronal mass ejections who produced major geomagnetic storms during the period 1998-2008
- Z173 EGU2011-13645
Paolo Pagano, Adriaan van Ballegooijen, and Fabio Reale
Modeling of unstable MHD equilibria in the solar corona and role of plasma pressure.
- Z174 EGU2011-13849
Olga Malandraki, Lun C. Tan, Donald V. Reames, and Linghua Wang
Use of Incident and Reflected Solar Particle Beams to Trace the Topology of Magnetic Clouds
- Z175 EGU2011-12716
Norma Crosby and the SEPTEM Team
Solar Energetic Particle Environment Modelling: the ESA SEPTEM Project

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 Boyv, 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**, H el ene 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 Gsch opf, 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
Nilg n Okay
Coastal Geo-Hazards around the Mediterranean Sea and Risk Reduction
- XY541 EGU2011-1965
Gabriele Villarini, James Smith, and Mary Lynn Baeck
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

(co-organized) – Orals
 Convener: Robin Crockett
Room: 29
 Chairperson: n.n.

15:30–17:00

OS5.2 – Surface Waves and Wave-Coupled Effects in Lower Atmosphere and Upper Ocean (co-listed) – Orals

Convener: Alexander Babanin | Co-Conveners: Miguel Onorato, Fangli Qiao

Room: 11

Chairperson: n.n.

- 08:30–08:45 EGU2011-4955
 Fabrice Ardhuin and **Aron Roland**
 Validation of numerical waves models in strong currents, a tribute to Owen Phillips.
- 08:45–09:00 EGU2011-13650
Aron Roland, Tai-Wen Hsu, Jian-Ming Liao, Yaron Toledo, and Shan-Hwei Ou
 On the extension of the Wave Action Equation for higher order depth and current effects
- 09:00–09:15 EGU2011-4644
Victor Shrira and Sergei Annenkov
 Evolution of random wind wave fields under rapidly changing wind
- 09:15–09:30 EGU2011-9313
Alexander Soloviev, Silvia Matt, and Atsushi Fujimura
 Air-sea interface in hurricane conditions
- 09:30–09:45 EGU2011-4892
Yuliya Troitskaya, Daniil Sergeev, Oleg Druzhinin, Alexander Kandaurov, and Olga Ermakova
 Laboratory investigation and direct numerical simulation of wind effect on steep surface waves
- 09:45–10:00 EGU2011-9201
Paul Liu
 Contemplating Ocean Wave Measurements

COFFEE BREAK

Chairperson: n.n.

- 10:30–10:45 EGU2011-2418
Dmitry Chalikov and Alexander Babanin
 Numerical investigation of breaking waves in spectral environment
- 10:45–11:00 EGU2011-2889
Alessandro Iafra
 Energy dissipation mechanisms in spilling and in highly aerated plunging breaking events
- 11:00–11:15 EGU2011-10306
Guillemette Caulliez
 Dissipation regimes for short wind waves
- 11:15–11:30 EGU2011-809
Francisco J. Ocampo-Torres
 Non-linear interactions of wind-sea and opposing swell determined through bispectral analysis
- 11:30–11:45 EGU2011-2042
Sergei I. Badulin and Vladimir E. Zakharov
 Scales of nonlinear relaxation and balance of wind-driven seas
- 11:45–12:00 EGU2011-2266
Leonid Lopatoukhin, Alexander Boukharinovsky, and Ekaterina Chernysheva
 New generation of Wind and Wave climate handbooks

LUNCH BREAK

Chairperson: n.n.

- 13:30–13:45 EGU2011-3519
Peter Janssen
 Ocean Wave effects on the daily cycle in SST

- 13:45–14:00 EGU2011-3930
Johannes Gemmrich and Svein Vagle
Observations of wave-induced mixing
- 14:00–14:15 EGU2011-4324
Yeli Yuan and Ming Lu
A unified theory of waves in a general ocean
- 14:15–14:30 EGU2011-1932
Anna Rutgersson, Björn Carlsson, Rajesh Kumar, Alvaro Semedo, Øyvind Sætra, and Øyvind Breivik
Impact of surface waves on the atmosphere in a coupled wave-atmosphere regional climate model
- 14:30–14:45 EGU2011-1080
Lev Shemer and Andrey Zavadsky
On Reynolds stresses over wind waves
- 14:45–15:00 EGU2011-3906
Paul Hwang
Ocean Surface Roughness and Remote Sensing

SSS1.4 – Ash in the Environment (co-listed) – Orals

Convener: Paulo Pereira | Co-Conveners: Xavier Úbeda, Scott Woods, Tiina Tulonen, Jorge Mataix-Solera, Radka Kodesova, Deborah Martin, Artemi Cerdà

Room: 6

Chairperson: Paulo Pereira

- 08:30–08:45 EGU2011-1595
Agustin Merino, Beatriz Omil, Martin Santalla, Fernando Solla-Gullon, Cesar Perez-Cruzado, Federico Sanchez-Rodriguez, Nieves Barros, and Roque Rodriguez-Soalleiro
Application of wood ash containing charcoal to intensive forest plantations in humid temperate regions
- 08:45–09:00 EGU2011-2223
Ales Kapicka and Eduard Petrovsky
Magnetic properties of fly ash and its relevance for soil pollution mapping
- 09:00–09:15 EGU2011-9035
Stefan H Doerr, Rick Shakesby, Rob Bryant, Cristina Santin, Hugh Smith, Sheridan Gary, and Patrick Lane
Carbon sequestration potential of ash deposits from wildfires: the case of the 2009 Black Saturday Fires, Australia
- 09:15–09:30 EGU2011-9615
Victoria Balfour and Scott Woods
Characterizing the Hydrological Properties of Laboratory and Wildfire Ash from North America
- 09:30–09:45 EGU2011-10904
Merche B. Bodí, Gary Sheridan, Stefan Helmut Doerr, Jorge Mataix-Solera, and Artemi Cerdà
Sediment settling rate in a water body after a wildfire: ash and soil
- 09:45–10:00 EGU2011-3363
Tiina Tulonen, Lauri Arvola, and Rauni Strömmer
Cadmium Release from Peat and Accumulation in Aquatic Ecosystem after Experimental Wood Ash Treatment

SSS1.4 – Ash in the Environment (co-listed) – Posters

Convener: Paulo Pereira | Co-Conveners: Xavier Úbeda, Scott Woods, Tiina Tulonen, Jorge Mataix-Solera, Radka Kodesova, Deborah Martin, Artemi Cerdà

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Radka Kodesova

- XY708 EGU2011-620
Justin Maghanga, Benard O. Orori, Kingiri Senelwa, Maurice M. Mwamburi, Bekuta K. Balozi, and Lazare Etiégni
Defluoridation of water using double precipitation method with wood ash leachate and alum
- XY709 EGU2011-626
Lazare Etiégni, Bernard O. Orori, Kingiri Senelwa, Maurice M. Mwamburi, Bekuta K. Balozi, and Justin K. Maghanga
Ash leachate used as supporting electrolyte during wastewater treatment by electrocoagulation
- XY710 EGU2011-989
Paulo Pereira, Artemi Cerdà, Xavier Úbeda, Jorge Mataix-Solera, and Deborah Martin
High severity wildfire effects in ash thickness and immediate post-fire evolution in a Portuguese Pinus pinaster forest.

- XY711 EGU2011-1394
Torben Seidel and Hans Ruppert
Balancing heavy metal release from small-scale biomass combustion systems
- XY712 EGU2011-3111
Radka Kodesova, Ales Kapicka, Jakub Lebeda, Hana Grison, Martin Kocarek, and Eduard Petrovsky
Numerical simulation of fly-ash transport in sandy material using HYDRUS-1D
- XY713 EGU2011-6186
Paulo Pereira, Jorge Mataix-Solera, Xavier Úbeda, and Artemi Cerdà
Fire severity effects on ash water repellency in a Lithuanian grassland. Preliminary results
- XY714 EGU2011-6539
Artemi Cerdà, Merche B. Bodí, and Félix Ángel González-Peñaloza
Ash depth and ash cover evolution after forest fire in Eastern Iberian Peninsula
- XY715 EGU2011-6764
Paulo Pereira, Xavier Úbeda, and Deborah Martin
Spatial Variation of ash extractable Potassium after a wildfire
- XY716 EGU2011-8943
Juan Antonio Campos, Ascensión Ines Gómez, Jose Angel Amorós, Caridad Pérez de los Reyes, Francisco Jesús García-Navarro, Marta María Moreno, and Anselmo Acosta
Assessing oxygen consumption in an agricultural soil amended with two different wood ashes.
- XY717 EGU2011-9195
Jolita Dudaite, **Pereira Paulo**, Edita Baltreinaite, and Xavier Ubeda
Temperature effects on mass loss, ash pH, Electrical Conductivity and colour of Pinus Sylvestris and Acer Plantanoides. A laboratory study
- XY718 EGU2011-11789
Peter Hartmann, Heiner Fleige, and Rainer Horn
Effects of long term atmospheric deposition of lignite fly ash on soil physical properties of forest soils
- XY719 EGU2011-12126
Violeta Cepanko, Pranas Baltrenas, and **Paulo Pereira**
Investigation of Heavy metals stabilization in compost of grain residue with bio-fuel ash and zeolite additives
- XY720 EGU2011-12416
Isabel Campos, Nelson Abrantes, Patrícia Pereira, Joana Raimundo, **Diana Vieira**, João Canário, Carlos Vale, Ana Ferreira, and Jan Jacob
Polycyclic aromatic hydrocarbons and metals in ashes and burnt and unburnt forest soils in north-central Portugal

Friday, 08 April

BG5.1 – Integration of Environmental, Socio-Economic and Climatic Change Studies in Northern Eurasia (co-listed) – Posters

Convener: Pavel Groisman | Co-Conveners: Amber Soja, Alexey V. Eliseev, Chaba Mátyás

Poster Area BG | Display Time 08:00–17:00

Author in Attendance: 10:30–12:00

Chairperson: n.n.

- BG89 EGU2011-12559
Pavel Groisman, Vladimir Kattsov, and Richard Lawford
Northern Eurasia Earth Science Partnership Initiative (NEESPI) in 2010: An Overview of the Current Status
- BG90 EGU2011-12855
David McCabe, **Pavel Groisman** and the "Open Burning and the Arctic" conference (St. Petersburg, Russia, Nov. 2010) Source Apportionment Team
Open Burning and the Arctic: Current Knowledge and Priorities for Future Research
- BG91 EGU2011-2233
Irena Borzenkova, Pavel Groisman, Anna Mescherskaya, Olga Bulygina, and Vyacheslav Razuvaev
Extraordinary Heat Wave over European Russia in Summer 2010: What do the Data say?
- BG92 EGU2011-960
Margarita Syromyatina, Igor Moskalenko, and Kirill Chistyakov
Space-time features of climate changes in the Altai Mountains and alpine landscapes response
- BG93 EGU2011-1586
Alexey V. Eliseev, Maxim M. Arzhanov, and Igor I. Mokhov
Bayesian climate projection for the northern subpolar land based on ensemble of global climate models forced by SRES A1B scenario
- BG94 EGU2011-170
Julia Palamarchuk and Sergiy Ivanov
Regional and local variability of precipitation in Europe
- BG95 EGU2011-1601
Alexander V. Chernokulsky, Mirseid G. Akperov, Olga N. Bulygina, and Igor I. Mokhov
Changes in cloudiness and cyclonic/anticyclonic activity over Russia during last decades from observations and reanalyses data
- BG96 EGU2011-4794
Yury Gurfinkel
Solar activity and cardiovascular pathology
- BG97 EGU2011-11524
Dmitry Schepaschenko, Anatoly Shvidenko, and Lyudmila Mukhortova
Organic carbon in Russian soils: A specified spatially explicit assessment
- BG98 EGU2011-1898
Leonid L. Golubyatnikov
Model estimation of carbon flux from the soil: Russia case study
- BG99 EGU2011-2796
Galina Ivanova, Susan Conard, Anna Bogorodskaja, Valery Ivanov, Natalia Kovaleva, Eugenia Krasnoshekova, Elena Kukavskaya, Pavel Tarasov, and Sergey Zhila
Estimating and Monitoring Effects of Fire Severity on Ecosystem Components of Siberian Scots pine forests
- BG100 EGU2011-13171
Amber Soja, David Westberg, Paul Stackhouse, Jr, Douglas McRae, Ji-Zhong Jin, Anatoly Sukhinin, and Nadezda Tchebakova
Analysis of the Ability of Large-scale Reanalysis Data to Define Siberian Fire Danger in Preparation for Future Fire Weather
- BG101 EGU2011-5161
Brian Stocks and Donald Cahoon Jr.
Reconstructing Post-1979 Forest Fire Activity and Area Burned in Russia: NOAA AVHRR Analysis
- BG102 EGU2011-10479
Nadja Tchebakova, Almuth Armeth, Luca Beilelli, Chiara Corradi, Julia Kurbatova, Elena Parfenova, Natalia Vygodskaya, Ernst-Detlef Schulze, and Riccardo Valentini
Energy and water exchange in various ecosystems in central Siberia (from eddy covariance measurements)
- BG103 EGU2011-6931
Mihaela Laurenta Alexandrov, **Razvan Doru Mateescu**, Daniel Pertenatu, and Alina Spinu
The Romanian littoral - coastal geomorphologic changes during the last half of Century (1961-2011); its impact on the coastal development and solutions for protection and rehabilitation

- BG104 EGU2011-11542
Csaba Mátyás
Situation and Needs Regarding Forests and Climate Change Adaptation in Eastern Europe and Central Asia
- BG105 EGU2011-13934
Éva Konkoly-Gyuró, Csaba Mátyás, Géza Kiraly, **Pál Balázs**, and Áron Drüsler
Drivers and effects of long-term land use changes on climate, environment and socioeconomy in Central Europe
- BG106 EGU2011-6740
Maria Artamonova, Alexander Babyakin, **Natalia Efimenko**, Nina Povolotskaya, Igor Polozkov, David Topuriya, Elena Chalaya, Georgii Golitsyn, and Irina Senik
New approaches to the assessment of pathogenicity of weather conditions and aerosol pollution of the atmosphere for resorts
- BG107 EGU2011-4148
Vladimir P. Shevchenko, Oleg S. Pokrovsky, Dina P. Starodymova, Liudmila S. Shirokova, Rinat M. Manassypov, and Natalia S. Zamber
Terricolous lichens as biomonitor of environmental pollution in the Northern Eurasia
- BG108 EGU2011-12179
Irina N. Sokolik, Viatcheslav Tatarskii, Xin Xi, and Igor Shkolnik
Examining interactions between climate, droughts and dust events in Central Asia
- BG109 EGU2011-9653
Boris D. Belan, Pavel N. Antokhin, Viktoriya Arshinova, Sergey B. Belan, Aleksandr V. Fofonov, Georgii A. Ivlev, Tatyana M. Rasskazchikova, and Mikhail Yu. Arshinov
Blocking effect of Ural Mountains on transboundary transport of pollutants from Europe to Northern Asia
- BG110 EGU2011-6067
Mikhail Yu. Arshinov, Denis V. Simonenkov, Boris D. Belan, and Gennadii N. Tolmachev
Spatio-temporal variations of chemical composition of atmospheric aerosols over background region of southern part of Western Siberia
- BG111 EGU2011-5935
Mikhail Yu. Arshinov, Denis V. Simonenkov, Boris D. Belan, Gennadii N Tolmachev, Tatyana M Rasskazchikova, Tatyana K Sklyadneva, and Nina V. Uzhegova
Chemical composition of background aerosols sampled in Siberia

GMPV5 – Monitoring and observations of active volcanoes using in-situ and remote sensing techniques (co-listed) – Orals

Convener: Michael Burton | Co-Conveners: Thomas Staudacher, Jurgen Neuberg, Hugo Delgado Granados, Alessandro Bonaccorso

Room: 20

Chairperson: Alessandro Bonaccorso

- 08:30–08:45 EGU2011-5549
Christoph Hörmann, Holger Sihler, Nicole Bobrowski, Christoph Kern, Marloes Penning de Vries, Leif Vogel, Ulrich Platt, and Thomas Wagner
Coincident observations of SO₂ and BrO from volcanic eruptions by the GOME-2 instrument
- 08:45–09:00 EGU2011-2432
Nicolas Theys, Hugues Brenot, Jeroen van Gent, Michel van Roozendaal, Ronald van der A, Lieven Clarisse, Daniel Hurtmans, Yasmine Ngadi, Pierre Coheur, and Cathy Clerbaux
A multi-sensor alert system for volcanic emissions using satellite SO₂ and ash measurements
- 09:00–09:15 EGU2011-8083
Corentin Caudron, Devy Syahbana, Thierry Camelbeeck, and Alain Bernard
Multi-disciplinary continuous monitoring of Kawah Ijen volcano, East Java, Indonesia
- 09:15–09:30 EGU2011-9255
Jurgen Neuberg
The role of seismology in volcanic forecasting
- 09:30–09:45 EGU2011-12124
Adolfo Inza, Jérôme Igor Mars, Jean-Philippe Métaixian, Gareth Shane O'Brien, and Orlando Macedo
Three-component seismic array location of LP and explosions
- 09:45–10:00 EGU2011-2855
Takao Ohminato, Takayuki Kaneko, Takao Koyama, Atsushi Watanabe, Atsushi Yasuda, Minoru Takeo, Yoshiaki Honda, and Masato Iguchi
Volcano Observations Using an Unmanned Autonomous Helicopter : seismic observations near the active summit vents of Sakurajima volcano, Japan

COFFEE BREAK

Chairperson: Jurgen Neuberg

- 10:30–10:45 EGU2011-8324
Michele Pantaleo, Thomas R. Walter, Markus Ramatschi, Junping Chen, Gerd Gendt, and Maorong Ge
 Nisyros volcano monitoring through ground based InSAR, GPS, seismology and thermal sensing
- 10:45–11:00 EGU2011-7852
Kristina Meier, Matthias Hort, Ekkehart Tessmer, and Joachim Wassermann
 An integrated geophysical approach: Field and modelling studies for a better understanding of infrasound signals at Yasur volcano, Vanuatu
- 11:00–11:15 EGU2011-12328
Riccardo Lanari, Pietro Tizzani, Giovanni Zeni, Antonio Pepe, Francesco Casu, and Michele Manunta
 The 1992-2010 Yellowstone Caldera surface deformation evolution investigated through Advanced Spaceborne Radar Interferometry
- 11:15–11:30 EGU2011-4990
Miguel Alatorre-Ibarguengoitia, Hugo Delgado-Granados, Donald Dingwell, and Lucio Cárdenas-González
 Hazard assessment of volcanic ballistics: Integrating field observations, theory and fragmentation experiments
- 11:30–11:45 EGU2011-6610
Thomas Staudacher, Andrea Di Muro, Valerie Ferrazzini, Florent Brenguier, Patrice Boissier, Philippe Kowalski, Philippe Catherine, Frédéric Lauret, and Hervé Douris
 The 2010 eruptive cycle at Piton de la Fournaise volcano
- 11:45–12:00 EGU2011-13182
Patrick Allard, Alessandro La Spina, Giancarlo Tamburello, Alessandro Aiuppa, Andrea Di Muro, and Thomas Staudacher
 First measurements of magmatic gas composition and fluxes during an eruption (October 2010) of Piton de la Fournaise hot spot volcano, La Reunion island

LUNCH BREAK

Chairperson: Hugo Delgado Granados

- 13:30–13:45 EGU2011-5432
Olga Girina, Alexander Manevich, Anton Nuzhdaev, Olga Konovalova, Sergey Ushakov, and Dmitry Melnikov
 Monitoring of 2010-2011 Kizimen Volcano Eruption and Prediction of Danger for Aviation
- 13:45–14:00 EGU2011-8958
Fabio Madonna, Aldo Amodeo, Giuseppe D'Amico, Lucia Mona, and Gelsomina Pappalardo
 Observation of aerosol layers using co-located multiwavelength Raman lidar and microwave radar at CIAO during Eyjafjallajökull 2010 eruption
- 14:00–14:15 EGU2011-8556
Nicole Bobrowski and Giovanni Bruno Giuffrida
 Can bromine/sulphur ratios be used to forecast volcanic eruptions? An example study at Mt Etna.
- 14:15–14:30 EGU2011-12892
Hugo Delgado Granados, Ramón Espinasa-Pereña, Sergio R. Rodríguez, Wendy V. Morales-Barrera, Mariana P. Jácome Paz, and José M. Álvarez Nieves
 Use of soil CO₂ flux for the recognition of the most active zones in the Xalapa Monogenetic Volcanic Field
- 14:30–14:45 EGU2011-8168
Corentin Caudron and Alain Bernard
 Hydroacoustic quantifications of CO₂ bubbles in volcanic lakes
- 14:45–15:00 EGU2011-12010
Robin Champion, Gaia Pinardi, Pierre-François Coheur, Giuseppe Salerno, Michael Burton, Hugo Delgado-Granados, Maria Martinez-Cruz, Simon Carn, and Alain Bernard
 Comparing and integrating SO₂ measurements from ground and space.

NH1.1/AS4.5/CL3.3 – Extreme events induced by extreme weather and climate change: Evaluation and forecasting of disaster risk and proactive planning (co-organized) – Orals

Convener: Athanasios Loukas | Co-Conveners: Maria-Carmen Llasat, Uwe Ulbrich

Room: 10

Chairperson: M.C. Llasat, U. Ulbrich, A. Loukas

- 08:30–08:45 EGU2011-12911
Deniz Bozkurt, Baris Onol, and Omer Lutfi Sen
 Simulated intense convective precipitation over the Black Sea coasts: sensitivity to temporal modifications of SST
- 08:45–09:00 EGU2011-3103
Yves Trambly, Luc Neppel, Julie Carreau, and Kenza Najib
 Non-stationary frequency analysis with climatic covariates of heavy rainfall events in the French Mediterranean region
- 09:00–09:15 EGU2011-10251
Margarida L. R. Liberato, Isabel F. Trigo, and Ricardo M. Trigo
 Variability of Extreme Precipitation Events in Western Iberia
- 09:15–09:30 EGU2011-5719
Marina Baldi, Virginia Ciardini, John David Dalu, and Tiziana De Filippis
 A climatology of hail frequency and intensity in Italy
- 09:30–09:45 EGU2011-11767
Juan Cuesta, Pierre H. Flamant, and Cyrille Flamant
 Aggravation of air quality conditions due to multi-layer aerosol load in the Paris area during the heatwave of August 2003
- 09:45–10:00 EGU2011-10820
Jan Bliefernicht, András Bárdossy, Harald Kunstman, and Patrick Laux
 Robust identification of rare atmospheric states for statistical downscaling of hydro-meteorological extremes

COFFEE BREAK

Chairperson: M.C. Llasat, U. Ulbrich, A. Loukas

- 10:30–10:45 EGU2011-4462
 Rana Samuels, Maayan Harel, and **Pinhas Alpert**
 Building High Resolution Climate Change Ensembles for Forecasting Future Rainfall in the Middle East
- 10:45–11:00 EGU2011-10015
Christian Dobler
 Assessment of climate change impacts on flood hazard potential in an Alpine watershed
- 11:00–11:15 EGU2011-7649
Markus Stowasser, Ivo Bánovský, Erasmo Buonomo, Carlo Buontempo, Thomas Dubeau, Cressida Ford, Jane Toothill, and Silvio Tschudi
 Climate Change and Extreme Surface Flooding in Northern Italy
- 11:15–11:30 EGU2011-5141
Markus Donat, Tobias Pardowitz, Gregor C. Leckebusch, and Uwe Ulbrich
 Estimating the risk of losses caused by winter storms in Germany
- 11:30–11:45 EGU2011-12411
Jürgen Grieser, Christos Mitras, and Steve Jewson
 Modelling Wind Loss from Convective Events in Europe - Hazard, Vulnerability, Exposure
- 11:45–12:00 EGU2011-13853
John Tzabiras, Athanasios Loukas, and Lampros Vasiliades
 Evaluation of monthly precipitation downscaling methods accuracy for the assessment of climate change impacts on droughts

NH1.1/AS4.5/CL3.3 – Extreme events induced by extreme weather and climate change: Evaluation and forecasting of disaster risk and proactive planning (co-organized) – Posters

Convener: Athanasios Loukas | Co-Conveners: Maria-Carmen Llasat, Uwe Ulbrich

Halls X/Y | Display Time 08:00–17:00

Author in Attendance: 13:30–15:00

Chairperson: M.C. Llasat, U. Ulbrich, A. Loukas

- XY174 EGU2011-195
 Boryana Markova, Viara Rafailova, Rumjana Mitzeva, and **Guergana Guerova**
 Severe thunderstorm developed on 28 June 2007 over northeast Bulgaria
- XY175 EGU2011-1389
Stephan Pfahl and Heini Wernli
 Spatial coherency of extreme weather events in Central Europe

- XY176 EGU2011-2700
Florinela Georgescu and Sabina Stefan
Dynamic of the troposphere in cases of weather extreme events
- XY177 EGU2011-2704
Ana C. Costa, **João A. Santos**, and Joaquim G. Pinto
Climate change scenarios for precipitation extremes in Portugal based on COSMO-CLM ensemble simulations
- XY178 EGU2011-5173
Seth Westra
Joint dependence between extreme rainfall and storm surge in the coastal zone
- XY179 EGU2011-6698
Kai Born, Rabea Haas, Patrick Ludwig, Adam Podlaha, and Joaquim G. Pinto
Extreme Winds: Improvement of RCM storm simulations using gust parameterizations and MOS
- XY180 EGU2011-6721
Patrick Ludwig, Kai Born, Radovan Drinka, Alexandros Georgiadis, and Joaquim G. Pinto
Diagnosis of exceptional recent European winter storms
- XY181 EGU2011-6909
Susanna Mohr and Michael Kunz
Trend analysis of convective indices relevant for hail events in Germany
- XY182 EGU2011-6910
Ingo Meirold-Mautner, Benedikt Bica, and Yong Wang
INCA-CE: A Central European initiative in nowcasting applications
- XY183 EGU2011-6933
Haiyan Zhao, Ge Gao, Peiqun Zhang, and Xiaodong Yan
The modification of Meteorological Drought Composite Index
- XY184 EGU2011-7416
Blaz Kurnik, Andrej Ceglar, and Lucka Kajfez Bogataj
Assessing droughts in Europe using Standardised Precipitation Index (SPI) and Regional Climate Models (RCMs)
- XY185 EGU2011-12632
Johannes Merklein and Oleg Panferov
3D-Modelling of the destructive effects of windstorms on spatially complex forests
- XY186 EGU2011-11550
Jose de Jesus Salas Perez, Carme Llasat, and Carlos González-Gándara
Climatology of the Nortes of the Gulf of Mexico
- XY187 EGU2011-12985
Andrés Merino, Eduardo García-Ortega, **Laura López**, and José Luis Sánchez
Pre-frontal hailstorm episodes in the Iberian Peninsula: identification, analysis and prediction.
- XY188 EGU2011-1582
Emanuele Eccel, Piero Cau, Kathrin Riemann-Campe, and Franco Biasioli
Climatology of hailstorms in an alpine area and its links with atmospheric precursors
- XY189 EGU2011-2318
francesco cioffi, Upmanu Lall, Evgeny Volodin, Christina Karamperidou, and Roberto Purini
21st Century Projections of Precipitation Extremes in the Mediterranean from a medium resolution GCM
- XY190 EGU2011-4541
Weibiao Li
Characteristics of the Precipitation Extremes over the Urban Areas of the Pearl River Delta of China
- XY191 EGU2011-7558
Thorsten Simon, Christian Ohlwein, and Andreas Hense
Downscaling of Monsoon Precipitation in Poyang Basin, China, using a Generalized Pareto Distribution
- XY192 EGU2011-10387
Nikolay Sidorenkov
Causes of anomalous hot summers and the possibility of their forecasts
- XY193 EGU2011-10697
Christos Mitas
Numerical Simulation of Extreme European Windstorms
- XY194 EGU2011-11616
Sarah Kew, Frank Selten, Geert Lenderink, and Wilco Hazeleger
Robust assessment of future changes in extreme precipitation over the Rhine basin using a GCM
- XY195 EGU2011-12289
Amílcar Soares, Dora Roque, Pedro Benevides, Pedro Nunes, Ricardo Armas, and Maria Pereira
Desertification Indicators derived from Earth Observation Data: Application to Portugal and Brazil
- XY196 EGU2011-12331
Martin Granerød and Haraldur Ólafsson
Climatology and meteorology of lightnings in Norway

- XY197 EGU2011-10835
Giuseppe Delmonaco, Domenico Fiorenza, Luca Guerrieri, Carla Iadanza, Claudio Margottini, **Daniele Spizzichino**, Alessandro Trigila, and Eutizio Vittori
Geological risk assessment, mitigation and IT services and tools management: the BRISEIDE Project approach
- XY198 EGU2011-13809
Zhou Haiguang
Mesoscale Structure of the Snow Storm in Zhejiang on 29 January 2008 by Dual-radar
- XY199 EGU2011-7439
Olga Petrucci, Maurizio Polemio, and A.Aurora Pasqua
Damaging Hydrogeological Events in Calabria (Italy): new results of an ongoing historical research
- XY200 EGU2011-11928
Alessio Capriolo, Francesca Giordano, Rosa Anna Mascolo, and Daniele Spizzichino
Climate change and disaster risk reduction through adaptation plans and policies: the ACT (Adapting to Climate change in Time) project approach

NH1.3/HS12.7 – Flood risk and uncertainty (co-organized) – Orals

Convener: Giuseppe T. Aronica | Co-Conveners: Heiko Apel, Guy Schumann

Room: 4

Chairperson: H.Apel

- 15:30–15:45 EGU2011-6954
Jim Hall and Lucy Manning
A Bayesian approach to analysing structural uncertainties in flood risk analysis
- 15:45–16:00 EGU2011-423
Daniel Viviroli and Rolf Weingartner
Flood estimation and comprehensive hydrological assessment on basis of process-oriented continuous simulation
- 16:00–16:15 EGU2011-3635
Nicholas Odoni and Stuart Lane
What to do where? Demonstration of synergistic interactions between diffuse landscape scale measures to reduce flood risk.
- 16:15–16:30 EGU2011-3734
Mike Steel, Helen James, Shirley Greenwood, Ian Meadowcroft, and Stefan Laeger
Theory into practice: understanding and communicating uncertainty in flood risk information
- 16:30–16:45 EGU2011-8253
Anita Piliksere, Aigars Valainis, and Juris Se??ikovs
A flood risk assessment for Riga city taking account climate changes
- 16:45–17:00 EGU2011-10644
Paul D. Bates, **Giuseppe T. Aronica**, Angela Candela, and Jeff Neal
Can uncertainty in flood hazard estimation be reduced by using high detailed topographic data for floodplain modelling?

NH1.3/HS12.7 – Flood risk and uncertainty (co-organized) – Posters

Convener: Giuseppe T. Aronica | Co-Conveners: Heiko Apel, Guy Schumann

Halls X/Y | Display Time 08:00–17:00

Author in Attendance: 13:30–15:00

Chairperson: G. Schumann

- XY201 EGU2011-3360
Nguyen Viet Dung, José Miguel Delgado, Bruno Merz, and Heiko Apel
Changing flood hazard in the Mekong Delta
- XY202 EGU2011-4214
David Leedal, **Keith Beven**, Jeff Neal, Caroline Keef, and Paul Bates
Visualising uncertain flood inundation maps
- XY203 EGU2011-4286
Diana Carolina Fuentes Andino, Sven Halldin, Chong-Yu Xu, and Lars-Christer Lundin
Uncertainty estimation of simulated water levels for the Mitch flood event in Tegucigalpa
- XY204 EGU2011-4448
Kwak Youngjoo, Hasegawa Akira, Inomata Hironori, and Fukami Kazuhiko
Flood Risk Assessment Using Inundation Depth Model and ALOS Images: A Case Study In Kabul River, Pakisatn

- XY205 EGU2011-5123
Dai Yamazaki, Yadu Pokhrel, Hyungjun Kim, Shinjiro Kanae, and Taikan Oki
Impact of climate change on the flood risks in the Mekong River basin: prediction of future flooding extent using a continental-scale hydrodynamics model
- XY206 EGU2011-6574
Juan Antonio Ballesteros, Mauricio Sánchez-Silva, Jose María Bodoque, and Andrés Díez-Herrero
An example of integrated approach to flood risk management: the case of Navaluenga (Central Spain)
- XY207 EGU2011-7008
Michaela Bray, Jia Liu, and Dawei Han
Rainfall forecasting using the Numerical Weather Model WRF and assimilated weather radar data
- XY208 EGU2011-7442
Cecilia Svensson, Thomas R. Kjeldsen, and David A. Jones
Flood frequency estimation using a joint probability method
- XY209 EGU2011-8239
Daniele Pietro Viero, Andrea D'Alpaos, Luca Carniello, Andrea Defina, and Rinaldo Genevois
A fully coupled hydrodynamic and breach formation model to simulate floodplain inundation: the case study of the Muson dei Sassi River (Italy).
- XY210 EGU2011-9417
Yizhong Qu
Challenges and solutions in flood risk assessment
- XY211 EGU2011-10230
Sergiy Vorogushyn, Karl-Erich Lindenschmidt, Heidi Kreibich, Heiko Apel, and Bruno Merz
Detention basin impact on flood risk and systemic effects of dike performance in a complex channel-dike-floodplain system
- XY212 EGU2011-12327
Daniela Brucher, Sergiy Vorogushyn, Julien Lhomme, Ben Gouldby, Heiko Apel, and Bruno Merz
Hydraulic model evaluation for large-scale flood risk assessments
- XY213 EGU2011-13706
Heidi Kreibich and Philipp Bubeck
,Costs of Natural Hazards': Modelling direct economic costs

NH3.9 – Documentation and monitoring of landslides and debris flows for mathematical modelling and design of mitigation measures – Orals

Convener: LUCA FRANZI | Co-Conveners: Massimo Arattano, Muneyuki Arai

Room: 2

Chairperson: Luca Franzì

- 08:30–08:45 EGU2011-5681
Yolanda Deubelbeiss, Christoph Graf, Brian McArdeall, and Perry Bartelt
Numerical modeling of debris flows - Case study at Dorfbach, Randa (Valais, Switzerland)
- 08:45–09:00 EGU2011-6983
Andreas Huber and Christian Scheidl
Comparison of debris flow simulation models for lateral runout prediction on the fan
- 09:00–09:15 EGU2011-5498
Ting-Chi Tsao, Chih-Hao Hsu, Wen-Chun Lo, Chen-Yu Chen, and Chin-Tung Cheng
The Investigation and Mitigation Strategy of a Debris Flow Creek after Typhoon Morakot in Taiwan
- 09:15–09:30 EGU2011-8228
Luzia Fischer, Lena Rubensdotter, Caterina Melchiorre, Knut Stalsberg, and Pascal Horton
Debris flow susceptibility mapping - from analysis at basin scale to national scale mapping
- 09:30–09:45 EGU2011-10526
Matteo Berti, Paolo Mora, Carlo Bonanno, and Elena Piantelli
Testing innovative power-supply systems for GPS monitoring in landslide areas
- 09:45–10:00 EGU2011-14131
Anna Maria Ferrero, Luigi Canelli, and Giuseppe Mandrone
Debris Flow Risk mitigation by the means of rigid and flexible barriers. Experimental tests and impact analysis

NH3.9 – Documentation and monitoring of landslides and debris flows for mathematical modelling and design of mitigation measures – Posters

Convener: LUCA FRANZI | Co-Conveners: Massimo Arattano, Muneyuki Arai

Halls X/Y | Display Time 08:00–17:00

Author in Attendance: 15:30–17:00

Chairperson: Luca Franzì

- XY214 EGU2011-14093
Shih-Meng Hsu, Huai-Yu Wen, Chi-Hung Chao, Nai-Chin Chen, and Shue-Yeong Chi
Watershed Sediment Yield Estimate during Heavy Rain Period
- XY215 EGU2011-13594
Bor-shiun Lin, Hsing-Chuan Ho, Shu-Yeong Chi, Ting-Chi Tsao, Hsiao-Yuan Yin, Wen-Chun Lo, and Shih-Meng Hsu
Discussions on Debris Flow Induced Factors of Shenmu Watershed in Taiwan
- XY216 EGU2011-2068
Mario Floris, Francesca Bozzano, Andrea D'Alpaos, Anna De Agostini, Antonio Galgaro, Alfredo Rocca, Giovanni Stevan, Giulia Tessari, Giordano Teza, and Rinaldo Genevois
A process-based model for the definition of hydrological alert systems in landslide risk assessment
- XY217 EGU2011-5588
Muneyuki Arai
Occurrence condition of roll wave and flow model on muddy debris flow
- XY218 EGU2011-7770
Andrea Guida, **Roberto Greco**, Emilia Damiano, Lucio Olivares, and Luciano Picarelli
Hydrological response of steep slopes in unsaturated pyroclastic soils: long-term monitoring results
- XY219 EGU2011-10430
Massimo Arattano, Marta Chiarle, Velio Coviello, Cristina Occhiena, Marina Pirulli, and Claudio Scavia
Acoustic emissions investigation for rock slope stability analysis in high mountain areas
- XY220 EGU2011-11490
Luca Di Martino, Cristiano Freilone, Giuseppe Ricca, and Maurizio Toja
December 2008-April 2009: landslide phenomena in Asti Provincia - Northwest Italy (interference with secondary roads)

NH3.10/GM6.2 – Rock mechanics and structural controls on hillslope processes (co-organized) – Orals

Convener: Federico Agliardi | Co-Conveners: Giovanni Crosta, Carlos Carranza-Torres, Doug Stead, Christian Zangerl

Room: 2

Chairperson: F. Agliardi, C. Zangerl, G.B. Crosta

- 10:30–10:45 EGU2011-8426
Federico Agliardi, Giovanni B. Crosta, Stefano Zanchetta, Marco Secondi, Valentina Barberini, Nicoletta Fusi, and Elena De Ponti
Fabric controls on the failure mode of strongly deformed metamorphic rocks: investigation, modelling, and impact on rock-slope stability
- 10:45–11:00 EGU2011-3235
Martin Ziegler, Simon Loew, Jeffrey Moore, and Florian Amann
Distribution and fractographic features of exfoliation joints in the Central Swiss Alps (Grimsel area, Aar Massif)
- 11:00–11:15 EGU2011-6454
Thomas Strauhal, Christian Zangerl, Daniela Anna Engl, Wolfgang Fellin, and Peter Tropper
Geotechnical and mineralogical sliding zones properties of rockslides in paragneissic rock masses
- 11:15–11:30 EGU2011-13348
Riccardo Castellanza, Matteo Ciantia, Claudio di Prisco, Federico Agliardi, and Giovanni Crosta
Weathering effects on the mechanical behavior of calcarenites: experimental evidences and impact on the stability of costal cliffs and cavities
- 11:30–11:45 EGU2011-13069
Andrea Pedrazzini, Michel Jaboyedoff, and Alexandre Loye
From Sackung to rock avalanche: the example of Sierre landslide (Switzerland)
- 11:45–12:00 EGU2011-1533
Irene Manzella, Herbert H. Einstein, and Giovanni Grasselli
Propagation of large debris avalanches: analytical, DEM and FEMDEM modelling of granular and block flows.

NH3.10/GM6.2 – Rock mechanics and structural controls on hillslope processes (co-organized) – Posters

Convener: Federico Agliardi | Co-Conveners: Giovanni Crosta, Carlos Carranza-Torres, Doug Stead, Christian Zangerl

Halls X/Y | Display Time 08:00–17:00

Author in Attendance: 15:30–17:00

Chairperson: F. Agliardi, C. Zangerl, G.B. Crosta

- XY221 EGU2011-1632
Laura Superchi, **Andrea Wolter**, Doug Stead, John J. Clague, Monica Ghirotti, and Rinaldo Genevois
Comparison of photogrammetric and field survey data from the sliding surface of the 1963 Vajont Slide, Italy

- XY222 EGU2011-12424
Stefano Margiotta, Fiorella Mazzone, and Sergio Luigi Negri
 Integrated approach based on qualitative rock classification system (Qsrm) and quantitative geological and geophysical surveys to characterize coastal cliffs
- XY223 EGU2011-5233
Marc-Andre Brideau, Matthieu Sturzenegger, Doug Stead, Michel Jaboyedoff, Martin Lawrence, Nicholas Roberts, John Clague, Brent Ward, and Tom Millard
 Structural controls on the 2007 Chehalis Lake landslide, British Columbia, Canada
- XY224 EGU2011-10946
Florian Humair, Jean-Luc Epard, Andrea Pedrazzini, Corey Froese, and Michel Jaboyedoff
 Genesis and related slope stability analyses of the Turtle Mountain anticline (Alberta, Canada)
- XY225 EGU2011-4969
Oded Katz and Julia K. Morgan
 The role of fractures in controlling the size and geometry of landslides; Insights from Discrete Element Method computer simulations
- XY226 EGU2011-11515
Alexander Preh, Rainer Poisel, and Kurt Mair am Tinkhof
 3D-effects on structural controls on hillslope processes
- XY227 EGU2011-1953
Jia-Jyun Dong and Huai-Houh Hsu
 Effects of Hydraulic Conductivity / Strength Anisotropy on the Stability of Stratified, Poorly Cemented Rock Slopes
- XY228 EGU2011-8783
James Glover, Nick Rosser, Werner Gerber, and Dave Petley
 Quantifying the influence of rock shape on the run out of rock fall
- XY229 EGU2011-10083
Aucelli Pietro, Roskopf Carmen, and Di Paola Gianluigi
 The role of mass wasting in the evolution of valley systems: an example from the Molise region (Southern Italy)
- XY230 EGU2011-1821
Jia-Jyun Dong and Yi-Ju Su
 Topography, rock mass strength and pore water pressure
- XY231 EGU2011-8090
 Assaf Klar, **Einat Aharonov**, and Oded Katz
 Landslide volume and surface area - Analytical and observational relations
- XY232 EGU2011-11254
Alexandre Loye, Josh I. Theule, Michel Jaboyedoff, Frédéric Liébault, Andréa Pedrazzini, and Richard Metzger
 Geological and morphostructural implication for sediment and debris supplying channels of small alpine catchments prone to debris flow
- XY233 EGU2011-1778
Thomas Bois, Thomas Lebourg, Emmanuel Tric, and Swann Zerathe
 Evolution of rock slopes submitted to time scaled alteration: New Insights from three dimensional numerical modelling of the La Clapière slope (Alpes Maritimes, France).

NH3.11/SSP3.4 – Submarine Landslides: Mechanisms, Processes and their Sedimentary Record (co-organized) –

Orals

Convener: Roger Urgeles | Co-Conveners: Alessia Errera, Michi Strasser, David Mosher, Jason Chaytor

Room: 1

Chairperson: Michael Strasser, Alessia Errera

- 13:30–13:45 EGU2011-4550
Pierre Henry, Toshiya Kanamatsu, Michael Strasser and the IODP Expedition 333 Scientists Team
 Drilling Quaternary submarine landslides on the Nankai accretionary wedge: Results from IODP Expedition 333
- 13:45–14:00 EGU2011-4141
Kei Ogata, Emiliano Mutti, Roberto Tinterri, and Gian Andrea Pini
 Mass transport complex in confined intra-slope basins: the case study of the Epiligurian Specchio unit (Northern Apennines, Italy)
- 14:00–14:15 EGU2011-976
Justin O'Shay, Robert Weiss, and Costas Synolakis
 How long does it take to generate tsunami waves by submarine landslides?

- 14:15–14:30 EGU2011-9771
Nicole J. Baeten, Jan Sverre Laberg, Matthias Forwick, Tore O. Vorren, Michael Ivanov, Maarten Vanneste, Carl Fredrik Forsberg, and Tore J. Kvalstad
 Small-scale mass wasting on the continental slope offshore Lofoten, northern Norway
- 14:30–14:45 EGU2011-1425
Sebastian Krastel, Mathias Meyer, Ingo Klaucke, Russell B. Wynn, Aggeliki Georgiopoulou, Inga Golbeck, and Daniel Winkelmann
 New data from the Sahara Slide complex off NW-African: timing, failure processes, and hazard potential
- 14:45–15:00 EGU2011-11514
Roger Urgeles and Angelo Camerlenghi
 Submarine landslides in the continental margins of the Mediterranean Sea: spatial distribution, major characteristics and implications for geohazard assessment

NH3.11/SSP3.4 – Submarine Landslides: Mechanisms, Processes and their Sedimentary Record (co-organized) – Posters

Convener: Roger Urgeles | Co-Conveners: Alessia Errera, Michi Strasser, David Mosher, Jason Chaytor

Halls X/Y | Display Time 08:00–17:00

Author in Attendance: 15:30–17:00

Chairperson: Alessia Errera, Michael Strasser

- XY234 EGU2011-4609
Daniel Winkelmann and Wolfram Geissler
 Assessing Arctic Submarine Slope Stability - Investigating the Glide Planes of the Hinlopen/Yermak Megaslide by Scientific Ocean Drilling
- XY235 EGU2011-4603
Daniel Winkelmann, Julia Schwab, Michi Strasser, Benedict Preu, Tilmann Schwenck, and Sebastian Krastel
 Large-Scale Submarine Mass-Masting offshore Uruguay
- XY236 EGU2011-4608
Shu-Kun Hsu, Ching-Hui Tsai, Hsin-Yi Lin, and Song-Chuen Chen
 Slope failure and fluid flow in the northern margin of South China Sea
- XY237 EGU2011-4219
Matthias Forwick, Jan Sverre Laberg, Maarten Vanneste, and Tore O. Vorren
 Down- and along-slope erosional and depositional processes on the NW Svalbard continental slope
- XY238 EGU2011-9197
Michele Rebesco, Angelo Camerlenghi, Renata G. Lucchi, Maria Teresa Pedrosa Gonzalez, Chiara Sauli, Gianni Madrussani, and Roger Urgeles
 Thin-skinned and giant submarine landslides on the southern Storfjorden Trough Mouth Fan (western Barents Sea)
- XY239 EGU2011-11297
Stefan Bünz, Runar Johansen, Jan-Sverre Laberg, and Jürgen Mienert
 3D Seismic Analysis of Buried Slide Deposits in the SW Vøring Basin, Mid-Norwegian Margin
- XY240 EGU2011-3452
Nicolas Pinet, Virginia Brake, Gabriel Huot-Vézina, Calvin Campbell, and Mathieu J. Duchesne
 Comparative quantitative geomorphology of Holocene mass-transport deposits, St. Lawrence River Estuary, Canada.
- XY241 EGU2011-743
Chenglin Gong, Yingmin Wang, Weilin Zhu, and Weiguo Li
 Unidirectional-migrating Slope Channel Systems in the Baiyun Depression, Pearl River Mouth Basin: morphology, architecture, and depositional processes
- XY242 EGU2011-6047
Antonio Cattaneo, Daniel Minisini, Alessandra Asioli, Miquel Canals, Ben De Mol, Sara Lafuerza, Galderic Lastras, Alessandro Remia, Nabil Sultan, and Marco Taviani
 Age constraints and sediment properties of Ana Slide (Balearic Sea, Western Mediterranean) and implications on age dating of submarine landslides
- XY243 EGU2011-13552
James Hunt and Russell Wynn
 Use of distal turbidites to decipher landslide records of frequency, volume and failure mechanism: case studies from the Moroccan Turbidite System
- XY244 EGU2011-13564
James Hunt and Russell Wynn
 Landslide and earthquake events recorded in distal turbidites in the deepwater basins of the Western European Margin

- XY245 EGU2011-4738
Anne Bernhardt, Lisa Stright, and Donald R. Lowe
 Debris Flow and Turbidity Current Interactions in a Large Submarine Axial Channel Belt, Upper Austrian Molasse Basin
- XY246 EGU2011-6338
Alexander Goater and Andrew Hogg
 Modelling Submarine Turbidity Currents
- XY247 EGU2011-2335
Sueng-Won Jeong, Jacques Locat, Serge Leroueil, and Jean-Loup Robert
 Fluidization process in submarine landslides due to water infiltration caused the high mobility of debris flows
- XY248 EGU2011-7656
Atsuya Tsukui, Hiroshi Fukuoka, Akito Tsutsumi, and Shintaro Yamasaki
 Sliding-surface-liquefaction of sand-dry ice mixture and long runout submarine landslides
- XY249 EGU2011-8883
Anna Reusch, Gauvain Wiemer, Achim Kopf, and Michael Strasser
 Submarine slope stability at the Nankai Trough - dynamic triaxial testing of water-saturated sediment samples
- XY250 EGU2011-1366
Hiroyuki Matsumoto, Toshitaka Baba, and Yoshiyuki Kaneda
 Evidence of submarine landslide triggered by the 2009 Suruga Bay, Japan earthquake
- XY251 EGU2011-6419
Chih-Chieh Su, Jing-Yi Tseng, Ho-Han Hsu, Ho-Shing Yu, and James T. Liu
 The Submarine Hazards Off Southwestern Taiwan: from 2006 Pingtung Earthquake to 2009 Morakot Typhoon

NH4.2 – Deformation processes and accompanying mechanical and electromagnetic phenomena , for rocks and other materials, from the laboratory to the geophysical scale – Orals

Convener: Konstantinos Eftaxias | Co-Conveners: Costantin Nomicos, Qinghua Huang

Room: 11

Chairperson: Tamaz Chelidze

- 13:30–13:45 EGU2011-395
Tamaz Chelidze and Teimuraz Matcharashvili
 Dynamic triggering and synchronization: laboratory and field scale
- 13:45–14:00 EGU2011-11932
Dimitar Ouzounov, Sergey Pulinets, Michel Parrot, Konstantin Tsybulya, Patrick Taylor, and Alonco Baeza
 The atmospheric response to M7.0 Haiti and M8.3 Chilean earthquakes revealed by joined analysis of satellite and ground data
- 14:00–14:15 EGU2011-2465
Dumitru Stanica and Dragos Armand Stanica
 Electromagnetic methodology used to assess the short-term precursory parameters related to seismic activity
- 14:15–14:30 EGU2011-3097
Hugo Gonçalves da Silva, Manuel Fernandes Graça, Jorge Silva Monteiro, Mourad Bezzeghoud, Rui Namorado Rosa, Sushil Kumar Mendiratta, and Mouhaydine Tlemçani
 Electric transport in different granitic rocks
- 14:30–14:45 EGU2011-4595
Qinghua Huang, Qiao Wang, and Yufeng Lin
 Geoelectric response on the ground surface due to inhomogeneity of electric structure
- 14:45–15:00 EGU2011-11320
Victor Novikov, Vladimir Zeigarnik, Vadim Klyuchkin, Vladimir Okunev, and Eugeny Lazarev
 Experimental Study of Dynamic and Electromagnetic Triggering Phenomena at the Spring-Block Facility

NH4.2 – Deformation processes and accompanying mechanical and electromagnetic phenomena , for rocks and other materials, from the laboratory to the geophysical scale – Posters

Convener: Konstantinos Eftaxias | Co-Conveners: Costantin Nomicos, Qinghua Huang

Halls X/Y | Display Time 08:00–17:00

Author in Attendance: 15:30–17:00

Chairperson: Konstantinos Eftaxias

- XY252 EGU2011-13756
Ping Zhang
 The Impending Geoelectric Precursors to the Sumatra Earthquake and the Wenchuan Earthquake

- XY253 EGU2011-6432
Konstantinos Eftaxias, George Minadakis, George Kopanas, and George Antonopoulos
Approach of puzzling features in the study of pre-seismic electromagnetic emissions
- XY254 EGU2011-5731
Dionisis Cavouras, Pantelis Georgiadis, Konstantinos Ninos, George Minadakis, Konstantinos Sidiropoulos, and Antonis Kyriazopoulos
Pattern recognition system for identifying the site of EM precursor signals preceding major seismic events
- XY255 EGU2011-5527
Peng Han, Katsumi Hattori, Hisashi Ishikawa, Takuya Hirano, Yuki Ishiguro, and Chie Yoshino
Investigation of ULF seismo-magnetic phenomena in Izu and Boso Peninsula, Japan during 2000 - 2010: case studies and statistical study
- XY256 EGU2011-4929
Ermioni Petraki, **Dimitrios Nikolopoulos**, Stelios Potirakis, Ioannis Mystakides, Emmanouil Vlamakis, Xenophon Argyriou, Anaxagoras Fotopoulos, Anna Louizi, and John Stonham
Soil radon as a possible link to earthquake occurrence in Greece.
- XY257 EGU2011-4893
Stelios Potirakis, Dimitrios Nikolopoulos, Ermioni Petraki, Ioannis Mystakides, Anaxagoras Fotopoulos, Xenophon Argyriou, Emmanouil Vlamakis, and John Stonham
Investigating the possible relation of electromagnetic signals in the upper VHF and lower UHF bands to earthquakes in Greece
- XY258 EGU2011-4480
Manolis Kefalas, John Kopanas, George Antonopoulos, Gregory Koulouras, Dionisis Cavouras, Constantinos Eftaxias, George Minadakis, and **Constantinos Nomicos**
The Telemetric System of Zante station for measuring the Electromagnetic Variations.
- XY259 EGU2011-4090
George Minadakis, Constantinos Nomicos, John Stonham, and **Konstantinos Eftaxias**
Is the statistical analysis of regional seismicity a macroscopic reflection of the physical processes in the earthquake source?
- XY260 EGU2011-4008
Xingong Tang, Wenbao Hu, Rui Tang, and Liangjun Yan
The preliminary study on considering IP effect for CSAMT data
- XY261 EGU2011-4869
Gregory Koulouras, Ilias Kiourtsidis, Evangelos Tasoulas, Dimitris Agiakatsikas, Kyriakos Kontakos, and **Constantinos Nomicos**
EMV data analysis using Bayesian inference
- XY262 EGU2011-1652
Felix Yudakhin and Galina Antonovskaya
Use of microseismic vibrations for decision of scientific and applied problems

SM5.2/NH4.7 – Time-dependent earthquake occurrence and seismic hazard: physics and statistics (co-organized) – Orals

Convener: Gert Zöller | Co-Conveners: Sebastian Hainzl, Massimo Cocco, Mark Naylor

Room: 26

Chairperson: Gert Zöller

- 08:30–09:00 EGU2011-4954
Clément Narteau, Peter Shebalin, and Matthias Holschneider
Probing the state of stress using early aftershocks
- 09:00–09:15 EGU2011-948
Denise De Gaetano, John McCloskey, and Suleyman Nalbant
The systematic study of the stability of forecasts in the rate- and state-dependent model
- 09:15–09:30 EGU2011-5005
Marco Mucciarelli and Dario Albarello
Empirical testing of earthquake recurrence models at source and site
- 09:30–09:45 EGU2011-4917
Stanislaw Lasocki
Clustering of seismic events in equivalent dimension hyperspaces - premonitory effects of M8.8 Chile earthquake of February 27, 2010
- 09:45–10:00 EGU2011-12502
Renata Rotondi and Elisa Varini
Statistical tests for the retrospective detection of space-time clusters of seismic events

COFFEE BREAK

Chairperson: Sebastian Hainzl

- 10:30–11:00 EGU2011-9019
Hugo Perfettini, Jean-Philippe Avouac, Hernando Tavera, Mohamed Chlieh, Jean-Mathieu Nocquet, Dominique Remy, Kositsky Andrew, and Anthony Sladen
 Seismic and aseismic slip on the central Peru megathrust
- 11:00–11:15 EGU2011-10366
 Michel Bouchon, Hayrullah Karabulut, Mustafa Aktar, Serdar Özalaybey, **Jean Schmittbuhl**, and Marie-Paule Bouin
 Observation of repeating earthquakes during the nucleation of the 1999 Mw 7.6 Izmit earthquake
- 11:15–11:30 EGU2011-8463
Virginie Durand, Michel Bouchon, David Marsan, and Nikos Theodoulidis
 Seismic interactions in Greece following the M=6.4, 2008, Achaia earthquake
- 11:30–11:45 EGU2011-3660
Matthias Holschneider, Gert Zöller, and Sebastian Hainzl
 Estimation of the maximum magnitude in the framework of a doubly-truncated Gutenberg-Richter model: Limits of statistical inference from earthquake catalogs
- 11:45–12:00 EGU2011-4653
Seok Goo Song
 Earthquake source statistics inferred from earthquake source physics - Toward developing an extended earthquake rupture forecast model

SM5.2/NH4.7 – Time-dependent earthquake occurrence and seismic hazard: physics and statistics (co-organized) –

Posters

Convener: Gert Zöller | Co-Conveners: Sebastian Hainzl, Massimo Cocco, Mark Naylor

Halls X/Y | Display Time 08:00–17:00

Author in Attendance: 15:30–17:00

Chairperson: Massimo Cocco

- XY512 EGU2011-1845
Haikun Jiang, Maling Yang, Xuejun Sun, Jian Lv, Chuanhen Yan, and Qiong Wu
 A typical locally triggered seismicity in Southwest of China, following the large rainfall event of June 2010
- XY513 EGU2011-2053
Alessandro Caporali, Salvatore Barba, Michele Carafa, Roberto Devoti, Grazia Pietrantonio, and Federica Riguzzi
 Static stress drop as determined from geodetic strain rates and statistical seismicity
- XY514 EGU2011-3765
Pierre Dublanchet, Pascal Bernard, and Pascal Favreau
 Cycle and triggering of a rate-and-state asperity model.
- XY515 EGU2011-7014
Gregor Hillers and Yehuda Ben-Zion
 Modeling Tectonic Tremor and Slow Slip Events with rate-and-state friction close to critical zero weakening
- XY516 EGU2011-11265
Gilbert Brietzke, Sebastian Hainzl, Gert Zöller, and Matthias Holschneider
 Quasi-Dynamic Simulations on Multiple Fault Systems
- XY517 EGU2011-5847
Hongjun Si, Akemi Noda, Michiharu Ikeda, Kazuki Ogiyama, Naoki Nishizaka, and Yuki Ohno
 A study on rupture propagation between the segments on the MTL based on the simulation of dynamic rupture process
- XY519 EGU2011-2987
Christoph Bach and Sebastian Hainzl
 Aftershock modeling based on Coulomb stress-triggering and ground shaking
- XY520 EGU2011-8347
Sebastian Hainzl, Gert Zöller, Gilbert B. Brietzke, Lifeng Wang, and Matthias Holschneider
 A stochastic fault-based earthquake simulator for short- and long-term seismicity
- XY522 EGU2011-7460
Beata Orlecka-Sikora, Stanislaw Lasocki, Grzegorz Lizurek, and ?ukasz Rudzi?ski
 Response of seismic activity in mines to the stress changes due to mining induced strong seismic events
- XY523 EGU2011-623
Samira Maghsoudi, Simone Cesca, Sebastian Hainzl, Dirk Becker, Torsten Dahm, Diethelm Kaiser, and Volker Oye
 Statistical Tools for Seismicity Analysis in Mining Environments
- XY524 EGU2011-6912
Andrew Bell, Sarah Touati, Mark Naylor, and Ian Main
 The nature and origin of the interevent-time distribution of volcanic earthquakes

- XY525 EGU2011-8949
Amir Hossein Hakimhashemi, Gottfried Gruenthal, Holger Schelle, and Christian Bosse
Time-Dependent Seismic Hazard Assessment in the Dead Sea Fault Zone
- XY526 EGU2011-4946
Katalin Gribovszki, Péter Varga, and **Ferenc Schulek-Tóth**
Deterministic Seismic Hazard Assessment of the inner town of Budapest
- XY527 EGU2011-10274
Hayrullah Karabulut, Jean Schmittbuhl, Michel Bouchon, Serdar Özalaybey, Olivier Lengliné, Guillaume Daniel, Ahu Kömeç, Virginie Durand, and Marie-Paule Bouin
Seismicity in the Cinarcik basin, East Marmara: changes due to the 1999 Izmit Earthquake and present-day activity
- XY528 EGU2011-2036
Elena Sasorova, Andreeva Marina, and Levin Boris
Spatial-temporal distributions of earthquakes of the Kuril Island arc
- XY529 EGU2011-4259
Emmanouil Katsifarakis, **Antonios Konstantaras**, Emmanuel Maravelakis, Emmanouil Skounakis, and Martin Varley
Seismic clustering algorithms
- XY530 EGU2011-2523
Yan Jia, Edmund Fiegweil, Christiane Freudenthaler, Rita Meurers, and Wolfgang Lenhardt
Overview of Austrian Seismic Monitoring in 2010
- XY531 EGU2011-12120
Emmanouil Skounakis, **Anthony Konstantaras**, Emmanouil Katsifarakis, Emmanuel Maravelakis, Konstantinos Banitsas, and Martin Varley
Seismic data clustering management system

NH5.2/NP7.4/OS5.5 – Extreme Sea Waves (co-organized) – Orals

Convener: Efim Pelinovsky | Co-Conveners: Christian Kharif, Alexey Slunyaev

Room: 4

Chairperson: n.n.

- 08:30–08:45 EGU2011-3927
Elzbieta Bitner-Gregersen and Alessandro Toffoli
Probability of occurrence of rogue waves
- 08:45–09:00 EGU2011-102
Ira Didenkulova
Freak waves in the coastal zone of the Baltic Sea
- 09:00–09:15 EGU2011-1804
Georg Lindgren and Finn Lindgren
Stochastic 3D Lagrange waves, asymmetry properties and consequences for marine safety
- 09:15–09:30 EGU2011-1551
Leonid Lopatoukhin, Alexander Boukhanovsky, and Ekaterina Chernysheva
Climatic wave spectra of extreme wind waves
- 09:30–09:45 EGU2011-6052
Miguel Onorato and Alessandro Torffoli
The role of the modulational instability in the interaction of waves and currents
- 09:45–10:00 EGU2011-4810
Odin Gramstad, Jean-Michel Lefevre, and Karsten Trulsen
Model and case study for freak waves in crossing swell and wind sea

COFFEE BREAK

Chairperson: n.n.

- 10:30–10:45 EGU2011-9094
Gerassimos Athanassoulis and Konstantinos Belibassakis
Fully nonlinear water waves of high amplitude, propagating in finite depth
- 10:45–11:00 EGU2011-13724
Alexander Dyachenko and Vladimir Zakharov
On canonical equation for water waves
- 11:00–11:15 EGU2011-3943
Walter Craig
Nonlinear water wave interactions

- 11:15–11:30 EGU2011-2013
Nail Akhmediev, Adrian Ankiewicz, Jose-Maria Soto-Crespo, and John M. Dudley
 Rogue Waves: Early Warning vs Forecast
- 11:30–11:45 EGU2011-1933
Roger Grimshaw and Sergei Annenkov
 Water wave packets propagating over variable depth
- 11:45–12:00 EGU2011-1977
 Sergei Annenkov and **Victor Shrira**
 Self-similar evolution of wind wave statistical momenta

LUNCH BREAK

Chairperson: n.n.

- 13:30–13:45 EGU2011-137
Anna Sergeeva, Lev Shemer, and Alexey Slunyaev
 Effects of occasional wave breaking on extreme wave statistics in stochastic modeling
- 13:45–14:00 EGU2011-1253
 Yang-Yih Chen and **Hung-Chu Hsu**
 Theoretical and Experimental study of Nonlinear water waves on uniform current
- 14:00–14:15 EGU2011-4226
 Victor Shrira and **Alexey Slunyaev**
 Rogue waves on jet currents caused by nonlinear evolution of trapped modes
- 14:15–14:30 EGU2011-1036
Sergey Dobrokhotov, Vladimir Nazaikinskiy, and Brunello Tirozzi
 Explicit Asymptotics for Waves and Vortices with Small Amplitudes on the Shallow Water Created by Localized Sources and their Applications
- 14:30–14:45 EGU2011-288
Karima Khusnutdinova
 The effect of an internal wave on breaking surface waves and the oceanic subsurface bubble layer
- 14:45–15:00 EGU2011-1975
Tatiana Talipova and Oxana Kurkina
 Modulation instability and hazardous internal waves in South China and Baltic Seas

NH5.2/NP7.4/OS5.5 – Extreme Sea Waves (co-organized) – Posters

Convener: Efim Pelinovsky | Co-Conveners: Christian Kharif, Alexey Slunyaev

Halls X/Y | Display Time 08:00–17:00

Author in Attendance: 15:30–17:00

Chairperson: Christian Kharif and Efim Pelinovsky

- XY263 EGU2011-2128
Roman Shamin
 Numerical Simulation of FreakWaves: Detection, Predict and Breaking
- XY264 EGU2011-7735
Shiqiang Yan and Qingwei Ma
 Fully Non-linear Investigation of Freak Waves and their Interaction with Winds and Currents
- XY265 EGU2011-1115
Alexey Slunyaev, Anna Sergeeva, and Efim Pelinovsky
 Rogue wave modeling: Approximate vs fully nonlinear wave simulations
- XY266 EGU2011-342
Arnida L. Latifah and E. van Groesen
 Investigations of coherence in extreme water waves
- XY267 EGU2011-37
Efim Pelinovsky and Ira Didenkulova
 Freak waves in the field of the nonlinear non-dispersive shallow-water waves
- XY268 EGU2011-13924
Efim Pelinovsky and Dong-Jiing Doong
 Freak wave observations in Taiwanese and Russian waters
- XY269 EGU2011-807
Andrey Zaytsev, Efim Pelinovsky, Ahmet Yalciner, Ceren Ozer, and Irina Kostenko
 Studies of Freak Waves in southern Part of Okhotsk Sea

- XY270 EGU2011-108
Ira Didenkulova and **Irina Nikolkina**
Freak waves in 2006-2010
- XY271 EGU2011-2382
Amin Chabchoub and Norbert Hoffmann
The Peregrine Breather Solution in a water wave tank
- XY272 EGU2011-42
Ekaterina Shurgalina and Efim Pelinovsky
Life-time of freak waves of different shapes: dispersive focusing framework
- XY273 EGU2011-7716
Huiming Zeng and **Karsten Trulsen**
Variation of kurtosis over non-uniform bathymetry
- XY274 EGU2011-1019
Hubert Branger, Laurent Grare, Christian Kharif, Pierre Lubin, Stephane Glockner, Pauline Robin, and Olivier Kimmoun
Wind effects on waves propagating to the shore: experimental and numerical investigations
- XY275 EGU2011-1435
Roland Thomas and Christian Kharif
Stability of a Stokes' wave train in the presence of uniform vorticity
- XY276 EGU2011-1050
Antonio Lechuga
Large amplitude edge waves on a beach
- XY277 EGU2011-4559
Oxana Kurkina, Tatiana Talipova, Efim Pelinovsky, Tarmo Soomere, and Ayrat Giniyatullin
Prognostic characteristics of internal waves for the Baltic Sea
- XY278 EGU2011-5286
Nikolay Makarenko, Janna Maltseva, and Alexei Kazakov
Extreme internal waves in a weakly stratified shear flows
- XY279 EGU2011-13256
Andrey Serebryany and Cho-Teng Liu
Observations of large-amplitude internal wave of the second mode in Luzon Strait
- XY280 EGU2011-4549
Dmitry Arkhipov, **Georgy Khabakhpashev**, Anatoly Litvinenko, and Nurziya Safarova
Combined approach to a simulation of the interaction of nonlinear spatial waves in seas with gently sloping bottom
- XY281 EGU2011-508
Elena Alekseenko, Bernard Roux, Alexander Sukhinov, and Christian Kharif
Influence of currents and wave propagation on the seagrass meadows development in shallow water systems (near shoreline)
- XY282 EGU2011-1573
Ekaterina Batcyna, Nikolay Petrukhin, and Efim Pelinovsky
Strong wave amplification in the atmosphere with large temperature gradients
- XY283 EGU2011-536
Shalva Gagoshidze
To the Calculation of Periodic Longitudinal Waves in Trapezoidal Channels and Their Action on Bank Slopes
- XY284 EGU2011-1685
Vasily Maximov, Gayaz Khakimzyanov, Igor Nudner, Efim Pelinovsky, and Konstantin Semenov
The Solitary Wave Interaction with a Partially Submerged Stationary Structure
- XY285 EGU2011-1686
Vasily Maximov, Igor Nudner, Yuri Mayorov, Dmitry Babchik, and Konstantin Semenov
Extreme Waves Interaction with Lattice Structures
- XY286 EGU2011-3981
Natalia Chaykovskaya and Artem Rodin
Psychological characteristics of human behaviour at a roque-wave event
- XY287 EGU2011-6781
Jean-François Dorville, Hugues Berthelot, and Narcisse Zahibo
Effect of Extremes Wave on a mitigate type of the French West Indies coast, with a low cost modeling
- XY288 EGU2011-6022
Narcisse Zahibo, Irina Nikolkina, Efim Pelinovsky, and Jean-François Dorville
Extreme Sea Waves on Guadeloupe, French West Indies
- XY289 EGU2011-4456
Mikhail Lavrentiev, Andrey Marchuk, and Konstantin Simonov
Identification of tsunami wave parameters at source

Convener: Florence Naaim-Bouvet | Co-Conveners: Mohamed NAAIM, Emma Surinach Cornet, Alec van Herwijnen, Jürg Schweizer, David McClung

Room: 11

Chairperson: Charles Fierz

- 08:30–08:45 EGU2011-1978
David McClung and Chris Borstad
 Probability distribution of energetic-statistical strength size effect in alpine snow
- 08:45–09:00 EGU2011-14072
Ingrid Reiweger, Stephan Simioni, and Jürg Schweizer
 Failure of weak snow layers
- 09:00–09:15 EGU2011-3190
Johan Gaume, Guillaume Chambon, Mohamed Naaim, and Nicolas Eckert
 Influence of weak layer heterogeneity on slab avalanche release. Finite Element Modeling.
- 09:15–09:30 EGU2011-9027
Elena Klimenko
 Modeling snowpack on avalanche terrain for its stability estimation
- 09:30–09:45 EGU2011-13916
Christoph Mitterer, Achim Heilig, Lino Schmid, Jürg Schweizer, and Olaf Eisen
 Measuring wet-snow properties with ground-penetrating radar technology
- 09:45–10:00 EGU2011-5674
Hélène Castebrunet, Nicolas Eckert, and Gérald Giraud
 Climatological study of natural avalanche activity of the past 50 years in the French Alps

COFFEE BREAK

Chairperson: Emma Suriñach

- 10:30–10:45 EGU2011-10414
Andrea Soncini and Daniele Bocchiola
 Future snow avalanche regime under climate scenarios in the Italian Alps
- 10:45–11:00 EGU2011-1440
Helmut Schreiber, Klaus Lorentsichs, Walter L. Randeu, Markus Mayerl, Alexander Podesser, and Arnold Studeregger
 Avalanche measurements by the radar-based monitoring system Grimming-Multereck
- 11:00–11:15 EGU2011-8177
 Alvaro Soruco, **Emmanuel Thibert**, Christian Vincent, Renaud Blanc, and Raphaële Héno
 Measurement of avalanche front velocity from high-speed terrestrial digital photogrammetry
- 11:15–11:30 EGU2011-8448
Magni Hreinn Jónsson, Eiríkur Gíslason, Harpa Grímsdóttir, and Tómas Jóhannesson
 Two-dimensional modeling of snow avalanches in Iceland - applications for hazard mapping and avalanche forecasting
- 11:30–11:45 EGU2011-9857
Margarita E. Eglit
 Effect of the slope curvature on an avalanche dynamics
- 11:45–12:00 EGU2011-2604
Paolo Caccamo, Thierry Faug, Hervé Bellot, Frederic Ousset, and Florence Naaim-Bouvet
 Small-scale tests on granular avalanches against various types of flat obstacles

NH6.1/CR11.30 – Snow cover and avalanches (co-organized) – Posters

Convener: Florence Naaim-Bouvet | Co-Conveners: Mohamed NAAIM, Emma Surinach Cornet, Alec van Herwijnen, Jürg Schweizer, David McClung

Halls X/Y | Display Time 08:00–17:00

Author in Attendance: 15:30–17:00

Chairperson: Thierry Faug

- XY290 EGU2011-7707
Reinhard Fromm and Peter Höller
 Ski pole test: A comparison with traditional observation techniques
- XY291 EGU2011-13927
Klemens Mayer, Ingrid Reiweger, Stephan Simioni, and Jürg Schweizer
 Localisation of acoustic emission events during loading of snow samples

- XY292 EGU2011-10070
Charles Fierz and Michael Lehning
Revisiting snow settlement simulations performed with SNOWPACK
- XY293 EGU2011-13929
Benjamin Reuter and Jürg Schweizer
The effect of surface warming on snow slab stiffness and fracture propagation propensity in avalanche snowpacks
- XY294 EGU2011-13923
Sebastian Feick, Stefan Brunner, Christoph Mitterer, and Jürg Schweizer
Automated detection and analysis of gliding snow
- XY295 EGU2011-13920
Ingrid Reiweger, Christoph Mitterer, and Jürg Schweizer
2-D modelling of water flow in snow
- XY296 EGU2011-10124
Charles Fierz, Pascal Haegeli, Roger Atkins, Matthias Gerber, Johannes Hörtnagl, John Kelly, Samuel Morin, Patrick Nairz, and Ian Tomm
An International Standard for the Exchange of Snow Profile Information
- XY297 EGU2011-14073
David McClung
The strength and weight of evidence in backcountry avalanche forecasting
- XY298 EGU2011-11863
Igor Chiambretti, Mauro Valt, and Stefano Pivot
Winter season 2009-2010 - avalanche accidents in Italy
- XY299 EGU2011-6477
Mauro Valt and Paola Cianfarra
Recent snow cover and temperature variability in the Italian Alps and relations to avalanche activity
- XY300 EGU2011-5717
Cristina Pérez, Emma Surinach, Ignasi Vilajosana, Arnold Kogelnig, Martin Hiller, and François Dufour
Snow avalanche characterization by quantitative study of the generated seismic signals
- XY301 EGU2011-9895
Florence Naaim-Bouvet, Hervé Bellot, Mohamed Naaim, Nishimura Kouichi, and Romain Gaucher
Measurements of blowing snow : size distribution of snow particles at Lac blanc pass, French Alps.
- XY302 EGU2011-8967
Alexander Prokop and Josef Pichler
A high resolution approach to define extreme spatial snow heights in avalanche release zones
- XY303 EGU2011-13703
DynAval Team
A comparison between three avalanche test sites in northwestern Alps as developed in the DYNAVAL-Alcotra project.
- XY304 EGU2011-11116
Monica Barbero, Fabrizio Barpi, Leandro Bornaz, Mauro Borri-Brunetto, Eloïse Bovet, Enrico Bruno, Elisabetta Ceaglio, Bernardino Chiaia, **Valerio De Biagi**, Daniele Fassin, Michele Freppaz, Barbara Frigo, Danilo Godone, Margherita Maggioni, Oronzo Pallara, Luca Pitet, Valerio Segor, Franco Torretta, Davide Viglietti, Arnoldo Welf, and Ermanno Zanini
Preliminary measurements and surveys at the Italian avalanche test site Punta Seehore.
- XY305 EGU2011-2712
Arnold Kogelnig, Cristina Pérez, Emma Suriñach, Johannes Hübl, Ignasi Vilajosana, Lambert Rammer, Martin Hiller, and François Dufour
On the use of infrasonic and seismic sensors to determine acoustic emissions of snow avalanches
- XY306 EGU2011-3534
Djebbar Baroudi, Betty Sovilla, and **Emmanuel Thibert**
Effects of flow regime and sensor geometry on snow avalanche impact pressure
- XY307 EGU2011-10840
Monica Barbero, Fabrizio Barpi, Mauro Borri-Brunetto, Eloïse Bovet, Enrico Bruno, Elisabetta Ceaglio, Bernardino Chiaia, Valerio De Biagi, **Michele Freppaz**, Barbara Frigo, Oronzo Pallara, Luca Pitet, Valerio Segor, Claudio Vicari, Ermanno Zanini, and Margherita Maggioni
A new test site in Aosta Valley (northwestern Italian Alps) for measuring the effects of snow-gliding on avalanche defence structures
- XY308 EGU2011-5900
Valerio De Biagi, Bernardino Chiaia, Barbara Frigo, and Francesca Del Din
New design guidelines for buildings in hazardous avalanche areas.
- XY309 EGU2011-2107
Benoit Chanut, **Thierry Faug**, and Mohamed Naaim
Force from granular flows on a wall-like obstacle: contribution to snow avalanche dam design

- XY310 EGU2011-12108
Engelbert Gleirscher, Anna Maschek, Jan-Thomas Fischer, Martin Kern, and Markus Aufleger
 Granular Experiments on the avalanche mitigation structure 'Muehlauer Klamm', Innsbruck, Tyrol.
- XY311 EGU2011-3737
Philomène Favier, Nicolas Eckert, David Bertrand, and Mohamed Naaim
 Optimal design of snow avalanche passive defense structure using extreme value run-out models
- XY312 EGU2011-12360
Philipp Jörg, Matthias Granig, and Peter Sampl
 Case studies with SamosAT based on several avalanche events in February and March 2009

NH9.9 – Vulnerability assessments in natural hazard and risk analysis – Orals

Convener: Thomas Glade | Co-Conveners: Joern Birkmann, Sven Fuchs, Carolina Roman

Room: 1

Chairperson: Thomas Glade

- 08:30–08:45 EGU2011-5521
 Chih-Hao Hsu, **Ting-Chi Tsao**, and Wen-Chun Lo
 A Preliminary Study of Building Vulnerability to Debris Flow Hazard in Taiwan
- 08:45–09:00 EGU2011-4932
Maria Papathoma-Koehle, Margreth Keiler, Reinhold Totschnig, and Thomas Glade
 Improvement of vulnerability curves using data from extreme events: a debris-flow event in South Tyrol
- 09:00–09:15 EGU2011-675
Sven Fuchs, Jürgen Suda, and Markus Holub
 Vulnerability reduction by adapted building design
- 09:15–09:30 EGU2011-5653
daniela molinari, francesco ballio, and scira menoni
 The role of vulnerability for Early Warning Systems effectiveness
- 09:30–09:45 EGU2011-7762
Paulo Canário, Helena Nogueira, and Henrique Andrade
 Vulnerability Assessment to Extreme Heat in the Lisbon Metropolitan Area - an attempt of spatial modelling.
- 09:45–10:00 EGU2011-9908
Stefan Kienberger, Peter Zeil, Gerald Reischenböck, and Diana Maria Contreras Mojica
 Application of the MOVE framework for local and sub-national scale levels on flood hazards - Contributions to the vulnerability and scale debate

COFFEE BREAK

Chairperson: Joern Birkmann

- 10:30–10:45 EGU2011-1060
Nino Tsereteli, Otar Varazanashvili, Tamaz Chelidze, Avtandil Amiranashvili, and Alexander Gvemcadze
 Development of Multiple risks deciles assessment for natural hazards for the territory of Georgia
- 10:45–11:00 EGU2011-7374
Bijan Khazai, Bjorn Vangelsten, Sebnem Duzgun, Janina Braun, and James Daniell
 Social Impacts of Emergency Shelter Provision in the aftermath of Earthquakes: Integrating Social Vulnerability in Systemic Seismic Vulnerability Analysis
- 11:00–11:15 EGU2011-1096
Dagmar Haase, Volker Meyer, and Sebastian Scheuer
 Exploring multicriteria flood vulnerability by integrating flood risk and coping capacity - from a starting point view towards an end point view of vulnerability
- 11:15–11:30 EGU2011-7561
Tina Kunz-Plapp, Bijan Khazai, and James Daniell
 Social Impacts of Earthquakes on Health and Health Care Systems: Integrating Social Vulnerability in Systemic Seismic Vulnerability Analysis
- 11:30–11:45 EGU2011-5790
Marc Zebisch, Stefan Schneiderbauer, Steve Kass, Lydia Pedoth, and Alberto Pistocchi
 Assessment of vulnerability to natural hazards and climate change in mountain environments - examples from the Alps
- 11:45–12:00 EGU2011-8721
Anne Holsten, Tabea Lissner, Marcus Klaus, and Jürgen P. Kropp
 The need for multisectoral impact assessments to initiate concerted adaptation

NH9.9 – Vulnerability assessments in natural hazard and risk analysis – Posters

Convener: Thomas Glade | Co-Conveners: Joern Birkmann, Sven Fuchs, Carolina Roman

Halls X/Y | Display Time 08:00–17:00

Author in Attendance: 15:30–17:00

Chairperson: Sven Fuchs

- XY313 EGU2011-6392
Francesco Stecchi, Francesco Mancini, Claudia Ceppi, and Giovanni Gabbianelli
A GIS approach to risk analysis in the city of Tuzla (BiH) after severe ground deformation phenomena
- XY314 EGU2011-1045
Konstantinos Karagiorgos, Michael Chiari, Fotis Maris, and Sven Fuchs
Quantification of vulnerability for elements at risk exposed to torrent processes in Mediterranean regions
- XY315 EGU2011-1084
Sven Fuchs and the RISK MAP Team
Active vulnerability reduction by public participation - the RISK MAP project
- XY316 EGU2011-3013
Gabriela Boca, Alexandru Ozunu, and Serban Nicolae Vlad
Assessment of the technological installations vulnerability to natural hazards
- XY317 EGU2011-2933
Hayrullah Yurekli and Oznur Karaca
Liquefaction Potential Mapping Using GIS For Nazilli, Western Anatolia
- XY318 EGU2011-3290
Stephanie Jaquet, Karen Sudmeier-Rieux, Marc-Henri Derron, and Michel Jaboyedoff
Influence of vulnerability on the risk analysis. Case studies of two villages in Dolakha district, Central-Eastern Nepal
- XY319 EGU2011-3402
Maria Iliana Pannaccione Apa, Emmanuel Kouokam, Robert Mbe Akoko, Pierre Thierry, and Maria Fabrizia Buongiorno
MT. CAMEROON SOCIO-ECONOMIC VULNERABILITY AND RESILIENCE ASSESSMENT THROUGH TRADITIONAL SURVEY METHODS [FP7-ENV-2007-1] Project MIA-VITA (Mitigate and assess risk from volcanic impact on terrain and human activities)
- XY320 EGU2011-4942
Maria Papathoma-Koehle, Melanie Kappes, and Margreth Keiler
An indicator-based methodology for vulnerability assessment in alpine areas
- XY321 EGU2011-7288
Mirko Baruffini, Christian Ambrosi, Roberto Marzocchi, and Maurizio Pozzoni
Analysis of natural hazards along infrastructure networks using a GIS-tool for risk assessment in mountain regions. An exploratory study on an hypothetical event: the Val Canaria flood.
- XY322 EGU2011-7380
Goran Trendafiloski, Oriol Gaspa, Raveem Ismail, and Guillaume Pousse
Earthquake loss estimation models for exposure data with higher resolution and quality
- XY323 EGU2011-3994
Paola Salvati, Cinzia Bianchi, Mauro Rossi, and Fausto Guzzetti
Individual landslide and flood risk in Italy: an update
- XY324 EGU2011-7655
Olga Petrucci and Maria Carme Llasat
Impacts of natural disasters: a review of recent literature
- XY325 EGU2011-7751
Maja Slejko, Klemen Bergant, Gregor Gregori?, and Samo Stani?
Assessing and mapping crop vulnerability to drought using multi-criteria method
- XY326 EGU2011-8872
t. Goded, e. Buforn, and j. Irizarry
Vulnerability assessment of historical buildings in the city of Málaga (Southern Spain)
- XY327 EGU2011-9090
Claudia Strada, Federico Rupi, Matteo Mottironi, **Ludwig Nössing**, Guido Rossi, Paolo Montagner, and Antonio Danesi
Methodology for creating the priority list of actions for the reduction of hydrogeological risks on the road network of the Autonomous Province of Bolzano (Project Paramount)
- XY328 EGU2011-7812
Reinhold Totschnig and Sven Fuchs
Vulnerability of buildings to torrent processes
- XY329 EGU2011-10448
Rosastella Daminelli, **Alberto Marcellini**, and Alberto Tento
Microtremor investigations at the Santuario della Rocca (Sabbio Chiese, Brescia)

- XY330 EGU2011-12879
Sofia Bajocco, Antonella De Angelis, Alberto Sabbi, Luigi Perini, and Luca Salvati
 Analysis of land degradation sensitivity hot-spots through space and time: Italy as a case study
- XY331 EGU2011-13070
Márcio Silva, Carlos Bateira, and Susana Pereira
 Vulnerability Assessment of Buildings and Roads to Shallow Translational Landslides in Santa Marta de Penaguião, Vila Real, Portugal
- XY332 EGU2011-11301
 Hormoz Modaressi, Evelyne Foerster, **Amelie Vagner** and the ENSURE Project Team
 Enhancing resilience of communities and territories facing natural and na-tech hazards
- XY333 EGU2011-1576
Mohsin Qureshi, Ikuo Towhata, and Suguru Yamada
 Safety assessment of weathered slopes by measuring shear wave velocity
- XY334 EGU2011-1724
Stefan Hochrainer-Stigler
 Future Flood Risk and Adaptation Strategies in the Tisza Region: A dynamic risk-layer approach

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

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

Room: 21

Chairperson: n.n.

- 10:30–10:45 EGU2011-633
Elina Kasvi, Hannu Hyypä, Anttoni Jaakkola, Joni Mäkinen, Juha Hyypä, and Petteri Alho
 Estimating sediment features and hydraulic parameters on a sand bedded point bar using LIDAR height and intensity and high resolution UAV-based images
- 10:45–11:00 EGU2011-9479
Sarah Derouin and Lucille Piety
 Seeing faults through the trees: A case study on using LiDAR in highly vegetated areas to determine fault activity and geomorphology
- 11:00–11:15 EGU2011-4647
Francesco Zucca, Fabio Remondino, Giorgio Agugiaro, Marco Franceschi, Davide Zizioli, and Christian Peloso
 Mapping the vertical: Oblique LIDAR acquisition for mapping Dolomites cliff (NE Italy)
- 11:15–11:30 EGU2011-11858
Christoph Siart, Markus Forbriger, and Matthieu Ghilardi
 Fusing surface and subsurface geodata: a case study on Cretan karst landforms
- 11:30–11:45 EGU2011-10198
Robert Barneveld
 Measuring microtopography with Terrestrial Laser Scanning: Aspects of data quality
- 11:45–12:00 EGU2011-7933
Gottfried Mandlbürger, Johannes Otepka, Wilfried Karel, Markus Hollaus, Camillo Ressler, Alexander Haring, Christian Briese, Gabor Molnar, and Bernhard Höfle
 OPALS - a comprehensive laser scanning software for geomorphological analysis

LUNCH BREAK

Chairperson: n.n.

- 13:30–13:45 EGU2011-11459
Jean-Stephane Bailly and Carole Delenne
 Riverbed image simulation for a better exploration of coarse-grained sediment sizing image analysis methods
- 13:45–14:00 EGU2011-3631
Thomas Dewez, Christian Mathon, Hiromi Kobayashi, Aude Nachbaur, Olivier Sedan, Frederic Berger, Emilie Nowak, and Emmanuel Des Garetts
 Real-size rockfall trajectory and derived mechanical quantities from close-range stereo video experiment in Tahiti, French Polynesia
- 14:00–14:15 EGU2011-1329
Dirk Rieke-Zapp
 In situ measurement of bedrock erosion

- 14:15–14:30 EGU2011-4479
Rafael Caduff, Fritz Schlunegger, Andrew Kos, Charles Werner, and Andreas Wiesmann
 Assessment of precise spatial and temporal slope deformation with the GAMMA Portable Radar Interferometer in the Illgraben debris flow catchment, Central Swiss Alps
- 14:30–14:45 EGU2011-5193
Chih-Ming Tseng, Ching Weei Lin, and Jin King Liu
 Application of High-resolution LiDAR-derived DEM in Landslide Volume Estimation
- 14:45–15:00 EGU2011-4065
David Hodgetts
 Quantitative geology from digital outcrop data for the characterisation of hydrocarbon reservoirs.
 Chairperson: Paola Passalacqua
- 15:30–15:45 EGU2011-10133
Tim Le Bas, Aaron Micallef, and Philippe Blondel
 Use of texture analysis techniques for digital mapping of underwater environments: The case of a submerged karstic landscape offshore Malta.
- 15:45–16:00 EGU2011-5594
Paolo Tarolli and Paola Passalacqua
 The statistical signature of Earth-Surface Processes
- 16:00–16:15 EGU2011-2980
Giulia Sofia, Paolo Tarolli, Federico Cazorzi, and Giancarlo Dalla Fontana
 Channel network identification from high-resolution DTM: a statistical approach.
- 16:15–16:30 EGU2011-7484
John Hillier and Mike Smith
 Testing Quantification Methods with Synthetic Drumlins in a real DEM
- 16:30–16:45 EGU2011-2646
Florent Levavasseur, Jean-Stéphane Bailly, Philippe Lagacherie, Colin François, and Rabotin Michaël
 Uncertainties of water flow-paths in digital cultivated landscape : consequences on overland flows and channel run-off
- 16:45–17:00 EGU2011-9831
Jungrack Kim, ShiYuan Lin, JeongWoo Hong, SangYoon Yun, YougHwi Kim, and HeaWoon Yun
 Very high resolution Martian topographic data processing and its application for virtual reality implementation

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

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

Hall A | Display Time 08:00–17:00

Author in Attendance: 08:30–10:00

Chairperson: n.n.

- A94 EGU2011-923
Susanne Schnitzer
 Estimation of mass loss due to soil erosion in the Loess Plateau in China: A comparison of the erosion model RUSLE, multi-temporal DEMs and GRACE satellite gravimetry.
- A95 EGU2011-12089
Maximilian Sproß, Erik Bollmann, Andrea Fischer, Lorenzo Rieg, Rudolf Sailer, and Johann Stötter
 Spatial statistical analysis on glacier surface elevation change based on ALS data
- A96 EGU2011-1147
Stefan Harnischmacher and Harald Zepp
 Detection and Quantification of Mining Subsidence in the Ruhr District (Germany) Using Historic Maps and Digital Elevation Models
- A97 EGU2011-12173
Alberto Guarnieri, Nicola Milan, Antonio Vettore, and Paolo Tarolli
 A prototype of landslide observatory in the eastern Italian Alps
- A98 EGU2011-12225
Alice Ciulli, Gianluca Chessa, Leonardo Disperati, Simone Gadenz, and Massimo Perna
 Topographic units mapping from DEM analysis: evaluation of the Upslope Position Index (UPI) in two Tuscany (Italy) study areas
- A99 EGU2011-12557
Vincenzo D'Agostino and Gabriele Bertoldi
 Hazard hierarchization of debris flow sediment source areas

- A100 EGU2011-5309
Paola Passalacqua, Colin P. Stark, Yuichi S. Hayakawa, Zhou Lin, Takashi Oguchi, and Tsuyoshi Hattanji
The objective mapping of channel initiation and landsliding on lidar DTMs in Japan and their interaction with vegetation
- A101 EGU2011-8188
Marco Cavalli, Sebastiano Trevisani, and Lorenzo Marchi
Geomorphometric assessment of spatial sediment connectivity in small alpine catchments
- A102 EGU2011-8286
Marco Cavalli, Sebastiano Trevisani, Beatrice Goldin, Elena Mion, and Lorenzo Marchi
Derivation of channel network of an alpine region from high-resolution DTM: the example of the Autonomous Province of Trento (Italy)
- A103 EGU2011-10449
Markus Thiel, Tobias Heckmann, Florian Haas, and Michael Becht
Quantification of coarse sediment connectivity in alpine geosystems
- A104 EGU2011-3804
Federico Cazorzi, Paolo Tarolli, Giulia Sofia, Alberto De Luca, and Giancarlo Dalla Fontana
Surface water storage in alluvial and urbanized plains: the effectiveness of high resolution topography
- A105 EGU2011-12442
Bastiaan Notebaert, Piégay Hervé, and Alber Adrien
Structural properties of floodplain width in the Rhone catchment: methodology and results
- A106 EGU2011-12580
Svetlana Samsonova and Aleksandr Koshkarev
Eco-geomorphological digital model of Moscow city
- A107 EGU2011-11648
Wolfgang Schwanghart, Geoff Groom, Nikolaus J. Kuhn, and Goswin Heckrath
Automatic identification of water-logged agricultural areas using LiDAR DEMs
- A108 EGU2011-398
pradeep Lodha
GIS based critical watershed analysis for soil conservation management using SWAT model
- A109 EGU2011-14048
Domenica Costantino and Maria Giuseppa Angelini
Production of checked DTM by Terrestrial Laser Scanner (TLS)
- A110 EGU2011-4886
Roderick OHara and Gerhard Neukum
Refined elevation models and reflectance for HRSC images
- A111 EGU2011-10908
Luigi Perotti, **Massimo Lanfranco**, Marco Giardino, and Paolo Zamparutti
Creation and test of a mobile GIS application to support field data collection and mapping activities
- A112 EGU2011-1555
Lorenzo Picco, Paolo Vitti, Luca Mao, Diego Ravazzolo, **Emanuel Rigon**, Johnny Moretto, and Mario Aristide Lenzi
Large Woody Debris measurements, in a gravel bed braided river environment, using Terrestrial Laser Scanner: the Piave River study case.
- A113 EGU2011-3570
Thomas Dewez, Aude Nachbaur, Olivier Sedan, Emilie Nowak, and Emmanuel Des Garets
Monitoring the degradation of weathered volcanic man-made escarpments by close-range photogrammetry in Tahiti, French Polynesia
- A114 EGU2011-4378
Greg Hancock and **Garry Willgoose**
Rapid erosion assessment on disturbed site: Quantification of erosion rates using laser scanning and modelling on a mine waste rock dump
- A115 EGU2011-10667
Dave Favis-Mortlock
The role of high-resolution microtopographic grids in validating the RillGrow model
- A116 EGU2011-12718
Michael Winkler, W. Tad Pfeffer, Klaus Hanke, and Georg Kaser
Close range photogrammetry reveals recession pattern of Kilimanjaro ice cliffs
- A117 EGU2011-12931
Muhammad Anggri Setiawan
Evaluation of interpolation methods in tillage surface area
- A118 EGU2011-13663
Inna Stepanova
On the finding of the earth's surface topography with the help of toda-hierachy
- A119 EGU2011-14050
Sierd de Vries, Roderik Lindenbergh, Sylvie Soudarissanane, and Matthieu de Schipper
Monitoring short term aeolian beach sand transport using terrestrial laser scanning

- A120 EGU2011-410
Tanja Vicovac, Alexander Reiterer, and Dirk Rieke-Zapp
Change Detection of Geological Surfaces by Image-Based Sensor Systems
- A121 EGU2011-6204
Luca Carturan, Simone Calligaro, Alberto Guarnieri, Nicola Milan, Paolo Tarolli, Daniele Moro, Giovanni Baldassi, Federico Cazorzi, Antonio Vettore, and Giancarlo Dalla Fontana
Terrestrial Laser Scanner survey of two small glacial formations in the Eastern Italian Alps
- A122 EGU2011-11627
Hubert Lehner, Christian Briese, and Rudolf Sailer
Radiometric calibration of airborne laser scanning data: case study rockglaciers
- A123 EGU2011-6847
Rudolf Sailer, Erik Bollmann, Johann Stötter, Susanna Hoinkes, Lorenzo Rieg, and Maximilian Spross
Quantification of morphodynamic processes in glaciated and recently deglaciated terrain
- A124 EGU2011-10541
Ekaterina Vsemirnova, Richard Jones, Jiulin Guo, and Kenneth McCaffrey
Quantitative characterization of fracture networks using terrestrial lidar data, an example from high porosity sandstones at Appleby, UK
- A125 EGU2011-10815
Luigi Perotti, Marco Bacenetti, Marco Giardino, and Stefano Marta
Geomorphological and geostructural characterisation of Veny Valley (Courmayeur, Italy) using an integrated field-based, Lidar and Remote Sensing techniques
- A126 EGU2011-8362
Petteri Alho, Matti Vaaja, Elina Kasvi, Antero Kukko, Hannu Hyyppä, Juha Hyyppä, Harri Kaartine, Matti Kurkela, and Claude Flener
Multitemporal MLS data and terrestrial photogrammetry in a change detection of point bars
- A127 EGU2011-12268
Markus Forbriger, Karsten Schitteck, Christoph Siart, and Bernhard Höfle
New approaches in vegetation mapping - use of terrestrial laser scanning on high Andean cushion peatlands
- A128 EGU2011-13847
Andreas Roncat, Balázs Székely, Gábor Molnár, András Zámolyi, Angelika Pocsai, and Camillo Ressler
High-resolution terrestrial laser scanning of temporary small-scale terraces in a dynamic landscape - a pilot study at the Doren landslide
- A129 EGU2011-14039
Andreas Roncat, Yuri Dublyansky, Christoph Spötl, Peter Dorninger, and Norbert Pfeifer
A full-3D laser-scan mapping of a hypogene cave: a morphogenetic study of Märchenhöhle, Austria
- A130 EGU2011-10670
Markus Hollaus, Norbert Pfeifer, Andreas Roncat, and Hieu Van Duong
Analyzing ICESat/GLAS derived terrain roughness parameter using airborne LiDAR data
- A131 EGU2011-8673
Martin Rutzinger, Bernhard Höfle, and Korbinian Kringer
Quality of geomorphological breaklines extracted from airborne laser scanning
- A132 EGU2011-8512
Cristina Castagnetti, Eleonora Bertacchini, **Alessandro Capra**, Marco Dubbini, Riccardo Rivola, and Alessandro Corsini
Integrating LIDAR and terrestrial laser scanning for a detailed description of landslides geomorphology

OS5.2 – Surface Waves and Wave-Coupled Effects in Lower Atmosphere and Upper Ocean (co-listed) – Posters

Convener: Alexander Babanin | Co-Conveners: Miguel Onorato, Fangli Qiao

Halls X/Y | Display Time 08:00–17:00

Author in Attendance: 13:30–15:00

Chairperson: Alex Babanin, Miguel Onorato, Fangli Qiao

- XY450 EGU2011-5374
Alexander Babanin and Dmitry Chalikov
Numerical investigation of turbulence generation in non-breaking potential waves
- XY451 EGU2011-9087
Jonas Takeo Carvalho and Valdir Innocentini
Wind wave climate along Brazilian coast using a spectral partitioning algorithm
- XY452 EGU2011-4410
Dejun Dai, Fangli Qiao, Wojciech Sulisz, Lei Han, and Alexander Babanin
An Experiment on the Non-Breaking Surface-Wave-Induced Vertical Mixing
- XY453 EGU2011-4389
Vladimir Dulov and Maria Kosnik
A Field Study of 2D-Wavenumber Spectra of Short Wind Waves

- XY454 EGU2011-1520
Alina Galchenko, Alexander Babanin, and Dmitry Chalikov
Influence of wind forcing on evolution and breaking of nonlinear wave groups.
- XY455 EGU2011-7390
Georgia Kalantzi, **Christine Gommenginger**, and Meric Srokosz
Spectral wave dissipation, operational wave models and observations: is there a way of improving wave forecasts?
- XY456 EGU2011-7116
Charles-Antoine Guérin and Guillemette Caulliez
Statistical properties of short wind waves: a high resolution laboratory study
- XY457 EGU2011-2837
Mark Hemer, Kathleen McInnes, and Roshanka Ranasinghe
Projected future wave climate along Australia's eastern margin
- XY458 EGU2011-12478
Rajesh Kumar, Anna Rutgersson, and Prasad Kumar
Impact of rain in modifying wave height in a coupled wave - climate model
- XY459 EGU2011-10268
Alexey Mironov
Theoretical description of breaking crests distributions measured in field conditions
- XY460 EGU2011-10250
Alexey Mironov, Charles-Antoine Guerin, Danièle Hauser, Maria Kosnik, and Vladimir Dulov
Statistical properties of short wind-waves obtained from photo-stereo observations of sea surface.
- XY461 EGU2011-6352
Miguel Onorato and Francesco Zonta
Direct numerical simulation of the boundary layer induced by surface gravity waves
- XY462 EGU2011-5158
Ruslan Puscasu, Alexander Babanin, and Michael Stiassnie
Numerical investigation of a novel wave-action transfer model for near-resonant water waves
- XY463 EGU2011-4145
Fangli Qiao, Zhenya Song, Changshui Xia, and Dejun Dai
The improvement of ocean and climate models through surface wave: From mean state to long-term variations
- XY464 EGU2011-12871
Ivan Savelyev and Robert Handler
Infrared imaging of near-surface eddies generated by steep and by breaking surface waves.
- XY465 EGU2011-6275
Mathieu Dutour Sikirić, Aron Roland, Ivica Janeković, Igor Tomažić, and Milivoj Kuzmić
Two-way coupling of ROMS and WWM models
- XY466 EGU2011-4629
Zhenya Song and Fangli Qiao
The establishment of the atmosphere-wave-ocean circulation coupled models-The improvement of CGCMs's simulations by the wave-induced vertical mixing
- XY467 EGU2011-2099
Chia-Huan Ting, Alexander Babanin, and Dmitry Chalikov
Dependence of Drag Coefficient on the Directional Spreading of Ocean Waves
- XY468 EGU2011-5399
Alessandro Toffoli, Alexander Babanin, and Jason McConochie
Field observations of the mixed layer depth in the Indian Ocean: effect of wave-induced turbulence
- XY469 EGU2011-8695
Oleg Druzhinin and **Yuliya Troitskaya**
Investigation of statistical parameters of turbulent air flow over wavy water surface by direct numerical simulation
- XY470 EGU2011-4501
Wu-ting Tsai and Li-ping Hung
Characteristics of interfacial transport in a wind-driven gravity-capillary surface wave
- XY471 EGU2011-12295
Kimmo K Kahma, **Laura Tuomi**, and Heidi Pettersson
Wave statistics in seasonally ice-covered seas
- XY472 EGU2011-2794
Anatoli Vakhguel and Alexander Babanin
Influence of water droplet size variations on propagation of the pressure wave above water surface
- XY473 EGU2011-5966
Soeren H. Ahmerkamp, **Jörg-Olaf Wolff**, and Stephen G. Monismith
On wave motions at the steep slope of a coral reef

XY474 EGU2011-6958

Changshui Xia and Fangli Qiao

The Establishment of the Wave-circulation Coupled Model and Its Application

