

EGU General Assembly 2012

Programme Group Programme

NH – Natural Hazards

Monday, 23 April	3
GM8.4/OS3.6/TS4.10	3
GMPV4.2/TS4.9	4
HS2.5	7
HS4.6	10
NH1.4/AS4.14	11
NH1.6/HS4.7	13
NH2.1	15
NH3.1	16
NH3.2	18
SM2.0/GD2.10/NH4.10/TS8.8	19
NH7.3/AS4.3/BG2.25/ESSI1.8/NP4.6/SSS5.24	20
NH7.5	23
NH8.6	23
SSS5.20	25
SSS6.2	26
Tuesday, 24 April	28
GI2.5	28
HS2.4	29
HS5.9	31
HS4.3/AS1.18/NH1.2	32
NH1.8/AS4.15/ESSI1.3/HS5.10/HS7.7	34
NH1.11/AS4.16/CL2.4	35
NH3.3/GM6.3	37
NH3.5	39
EMRP2.6/GMPV6.10/NH4.1/SM5.5/TS2.9	41
NH4.2/NP7.4/SM5.3/TS8.7	44
SM2.1/GD1.3/NH4.9/TS8.5	45
NH9.9	47
Wednesday, 25 April	49
NH1.1/AS1.16	49
HS4.1/GM7.8/NH1.7	53
NH3.6	55
NH3.8	56
NH3.9	58
NH3.12	59
TS8.2/G3.8/NH4.4/SM2.11	60
SM2.4/G3.7/NH4.8/TS8.6	61
NH5.3/NP 7.3/OS2.6	63
NH5.5	65
NH5.6	66
NH9.7	68
NH9.10	69
NH9.11	70
SSS7.3	71
Thursday, 26 April	74
GM2.1	74
GM2.2	75
GMPV4.4	77
HS2.6	78
HS7.1	79
HS7.2/AS1.20/CL5.16/NH1.3/NP3.6	81
ST5.1/NH1.10/PS5.5	83
SM5.7/GMPV6.14/NH2.3	83
NH3.7	85
NH3.10	87
NH3.11	88
SM5.4/NH4.6	90
SM5.1/NH4.7	92
NH5.1	93
NH5.7/ESSI1.7	

.....	96
NH9.1.....	98
NH9.4.....	100
NH9.8/EOS9.....	100
NH9.12.....	102
SC3/NH10.1.....	103
Friday, 27 April	104
CR8.10.....	104
ERE1.12.....	105
GM7.3/HS9.7/NH1.9.....	112
NH4.5.....	116
NH5.2.....	120
NH6.2.....	122
NH8.1.....	123
NH8.3.....	125
NH9.2.....	126
NH9.3.....	127

Monday, 23 April

GM8.4/OS3.6/TS4.10 – Seafloor Expression of Tectonic and Geomorphic Processes (co-listed) – Orals

Convener: S. Krastel | Co-Conveners: J. K. Hillier

Room: 21

Chairperson: n.n.

- 13:30–13:45 EGU2012-13865
A. Green, R. Leuci, Z. Thackeray, and J.A.G. Cooper
 An overstepped segmented lagoon complex on the KZN continental shelf, South Africa
- 13:45–14:00 EGU2012-13227
D. Ridente, D. Di Bucci, F. Foglini, E. Campiani, U. Fracassi, and F. Trincardi
 Late Quaternary activity and lateral variability of regional deformation belts in marine foreland settings: the South-Western Adriatic margin case study
- 14:00–14:15 EGU2012-166
Ch.L Gong, Y.M Wang, W.G Li, and X.Ch Peng
 Interactions between down-slope and along-slope processes on the South China Sea Slope off southwestern Taiwan: Processes, products, and depositional models
- 14:15–14:30 EGU2012-6838
 P. B. Flemings, **I. Song**, and D. M. Saffer
 Laboratory investigation of coupled deformation and fluid flow in mudrock: implications for slope stability in the Ursa Basin, Gulf of Mexico
- 14:30–14:45 EGU2012-9425
A. Bronner, M. Munschy, D. Sauter, J. Carlut, R. Searle, and M. Cannat
 Deep-tow geophysical survey above large exhumed mantle domains of the eastern Southwest Indian ridge
- 14:45–15:00 EGU2012-12418
C. A. Stein
 Depth anomalies in old oceanic lithosphere

GM8.4/OS3.6/TS4.10 – Seafloor Expression of Tectonic and Geomorphic Processes (co-listed) – Posters

Convener: S. Krastel | Co-Conveners: J. K. Hillier

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XL274 EGU2012-9585
I.S. Patina
 Seismotectonography of the Maykopian clinoforms in the Middle Caspian
- XL275 EGU2012-13332
S. Okay, G. Cifci, S. Ozel, O. Atgin, O. Ozel, B. Barin, M. Er, D. Dondurur, M. Kucuk, S. Gurcay, D. Choul Kim, and B. Sung-Ho
 New discovered Izmir and Busan Mud Volcanoes and Application of Seismic Attributes and AVO Analysis in the Easternmost Black Sea.
- XL276 EGU2012-40
H. Saritas, G. Cifci, L. Géli, Y. Thomas, B. Marsset, A. Rochat, G.K. Westbrook, S. Ker, O. Atgin, S.D. Akhun Ço?kun, C. Grall, P. Henr, S. Gürçay, S. Okay, S. Ço?kun, Ö. Özkan, and B. Bar?n
 2D - 3D high resolution seismic survey on the Sea of Marmara - Western High
- XL277 EGU2012-12739
M. Huuse
 3D seismic images of tectonic, sedimentary and fluid flow processes affecting the seafloor offshore West Africa
- XL278 EGU2012-8124
M. Vrabec, P. Slavec, S. Poglajen, and M. Buseti
 Geomorphology of submerged river channels indicates Late Quaternary tectonic activity in the Gulf of Trieste, Northern Adriatic
- XL279 EGU2012-5240
B. Jolly, L. Lonergan, and A. Whittaker
 The interaction between deepwater channel systems and growing thrusts and folds, toe-thrust region of the deepwater Niger Delta
- XL280 EGU2012-6441
J. Schwab, F. Gross, S. Krastel, P. Jintasaerane, S. Bunsomboonsakul, D. Winkelmann, and W. Weinrebe
 Morphodynamics and slope stability at Mergui Ridge, off western Thailand

- XL281 EGU2012-7652
L.A. Muller, A.B. Watts, and the JC066 shipboard scientific party
 The Morphology, Structure and Origin of Seamounts on the South-West Indian Ocean Ridge
- XL282 EGU2012-13013
F.K.J. Oberle, T.J.J. Hanebuth, and T. Schwenk
 Volumetric facies analysis of a Late Holocene mudbelt environment on the Galician shelf (NW Spain).
- XL283 EGU2012-1628
J.A.G. Cooper, D.W.T. Jackson, R.J. Quinn, R. Plets, J.T. Kelley, D.F. Belknap, A.J. Long, D.A. Long, X. Monteys, R. Edwards, and G.A. Milne
 Topographic and stratigraphic expression of submerged shorelines in the Irish Sea

GMPV4.2/TS4.9 – Volcanoes: Tectonics, Deformation, Geodesy (co-listed) – Orals

Convener: V. Acocella | Co-Conveners: A. Gudmundsson, T. R. Walter, G. Puglisi, S. Jonsson

Room: 27

Chairperson: acocella/walter

- 10:30–10:45 EGU2012-13683
J. Okada, F. Sigmundsson, B. Ofeigsson, R. Rodrigues, and T. Ferreira
 Interactions between regional tectonics and volcanic deformations in the Azores
- 10:45–11:00 EGU2012-9255
M. Lupi, F. Fuchs, B. Galvan, D. A. Basualto Alarcón, C. Farias, and S. A. Miller
 Response of the Nevados de Chillan and Peteroa volcanoes, Chile, to the 2010 M8.8 Maule earthquake.
- 11:00–11:15 EGU2012-169
C. Mora-Stock, M. Thorwart, T. Wunderlich, S. Bredemeyer, and W. Rabbel
 Volcano-seismic activity before and after the Maule 2010 Earthquake (Southern Chile): a comparison between Llaima and Villarrica volcanoes
- 11:15–11:30 EGU2012-5076
G. Wadge, A.C. Toombs, and L. Burt
 Stress field control of magma output and eruption dynamics inferred from the historical record and InSAR-measured deformation at Nyamuragira
- 11:30–11:45 EGU2012-1510
D. Keir, I. Bastow, and C. Pagli
 Along-rift variations in style of deformation at the Red Sea rift in Afar
- 11:45–12:00 EGU2012-6234
S. Ebmeier, J. Biggs, and T. A. Mather
 The apparent lack of deformation at Central American Volcanoes: systematic arc-scale InSAR measurement

LUNCH BREAK

Chairperson: n.n.

- 13:30–13:45 EGU2012-11902
B. Taisne, C. Jaupart, and S. Tait
 New insights on dyke width and upward velocity
- 13:45–14:00 EGU2012-12597
I. Galindo, L. Becerril, and A. Gudmundsson
 The sub-volcanic system of El Hierro, Canary Islands
- 14:00–14:15 EGU2012-10243
T. Sagiya, J. Barrancos Martinez, D. Calvo, E. Padron, G. H. Hernandez, P. A. Hernández, N. Perez Rodriguez, and J. M. P. Suárez
 Crustal Deformation During the 2011 Volcanic Crisis of El Hierro, Canary Islands, Revealed by Continuous GPS Observation
- 14:15–14:30 EGU2012-6644
A. Nobile, C. Pagli, D. Keir, T. Wright, J. Ruch, and V. Acocella
 The 2004 dyke-fault interaction at Dallol, northern Afar (Ethiopia)
- 14:30–14:45 EGU2012-1101
M. Bagnardi and F. Amelung
 Variations of the state of stress and dike propagation at Fernandina volcano, Galápagos.
- 14:45–15:00 EGU2012-384
R. Grapenthin, J.T. Freymueller, S.S. Serovetnikov, and N. Titkov
 Geodetic observations at Bezymianny Volcano, Kamchatka: The eruptions from 2005-2010 and long-term, long-wavelength subsidence as seen by the PIRE GPS network

Chairperson: n.n.

- 15:30–15:45 EGU2012-7985
J. W. Neuberg and K. Pascal
 Quantifying the errors due to the superposition of analytical deformation sources
- 15:45–16:00 EGU2012-1300
H. Bathke, H. Sudhaus, M. Shirzaei, and T.R. Walter
 Caldera formation at Tendurek, East Turkey
- 16:00–16:15 EGU2012-2219
A.V. Newman, S.C. Stiros, F. Moschas, V. Saltogianni, L. Feng, G.T. Farmer, P. Psimoulis, and Y. Jiang
 Renewed Geodetic Unrest at Santorini Caldera, Greece
- 16:15–16:30 EGU2012-9380
J. Ruch, V. Acocella, N. Geshi, A. Nobile, and F. Corbi
 Kinematic analysis of vertical collapse on volcanoes using experimental models time series
- 16:30–16:45 EGU2012-3648
A. Amoruso and L. Crescentini
 The 1982-1984 unrest of the Campi Flegrei caldera (Italy): clues on the resolving power of the available geodetic data and the robust features of the deformation source
- 16:45–17:00 EGU2012-13167
P.I.R. Wilson, K.J.W. McCaffrey, J.P. Davidson, R.E. Holdsworth, P. Murphy, and I. Jarvis
 Accommodating structures and deformation associated with the emplacement of high level magmatic intrusions, Henry Mountains, Utah

GMPV4.2/TS4.9 – Volcanoes: Tectonics, Deformation, Geodesy (co-listed) – Posters

Convener: V. Acocella | Co-Conveners: A. Gudmundsson, T. R. Walter, G. Puglisi, S. Jonsson

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XL308 EGU2012-11126
E. Geiss, J. Rohrmüller, J. Wassermann, M. Hackl, U. Kirscher, and V. Bachtadse
 Geophysical Investigations on a Suspected Quarternary Volcanic Structure in North Eastern Bavaria, Germany
- XL309 EGU2012-3046
L. Passarelli, E. Rivalta, F. Maccaferri, and Y Aoki
 On the physical links between the dynamics of the Izu Islands 2000 dike intrusions and the statistics of the induced seismicity
- XL310 EGU2012-11580
 O. Cocina, **A. Siniscalchi**, G. Barberi, G. Romano, S. Sicali, and S. Tripaldi
 Correlation between resistivity and seismicity at Etna volcano (Italy)
- XL311 EGU2012-4346
 R. Azzaro, **A. Bonforte**, S. Branca, and F. Guglielmino
 Geometry and kinematics of the fault systems controlling the unstable flank of Etna volcano (Sicily)
- XL312 EGU2012-11191
A. Bonforte, F. Guglielmino, and G. Puglisi
 Monitoring Mt. Etna volcano from "Envisat Extended Orbit"
- XL313 EGU2012-10771
 A. Bonforte, F. Guglielmino, and **G. Puglisi**
 3D temporal evolution and modeling of ground deformation recorded on Mt. Etna from the 2007 to 2008 through the SISTEM method
- XL314 EGU2012-2981
A. Cappello, G. Bilotta, M. Neri, V. Acocella, G. Gallo, and C. Del Negro
 Spatiotemporal probability of vent opening at Mt Etna volcano (Sicily, Italy)
- XL315 EGU2012-2289
M. Neri, S. Giammanco, E. Ferrera, G. Patanè, and V. Zanon
 Active faults on the eastern flank of Etna volcano (Italy) monitored through soil radon measurements
- XL316 EGU2012-11231
 A. Bonforte, **A. Carnazzo**, S. Gambino, F. Guglielmino, F. Obrizzo, and G. Puglisi
 A multidisciplinary approach to study an active fault crossing densely inhabited areas through ground deformation data: the Trecastagni fault at Mt. Etna (Italy)
- XL317 EGU2012-8938
E. Sansosti, S. Pepe, G. Solaro, F. Casu, P. Tizzani, V. Acocella, J. Ruch, A. Nobile, G. Puglisi, F. Guglielmino, and S. Zoffoli
 SAR4Volcanoes: an international ASI funded research project on volcano deformation through new generation SAR sensors

- XL318 EGU2012-365
Z. Barnett and A Gudmundsson
Field data and numerical models on the emplacement of sill complexes
- XL319 EGU2012-13789
M. Shirzaei
A satellite geodetic survey of spatiotemporal deformation of Iranian volcanos
- XL320 EGU2012-11049
C. Adam, N. Loureço, P. Madureira, M. Miranda, and M. Yoshida
Mantle dynamics and volcanism emplacement in the Azores
- XL321 EGU2012-479
D. Trippanera, M. Salvatore, M. Porreca, J. Ruch, A. Pimentel, J. Pacheco, and V. Acocella
Relationship between tectonics and magmatism on Faial island (Azores, Portugal)
- XL322 EGU2012-2356
J Biggs, **I Bastow**, D Keir, and W Hutchison
Volcano Deformation in the Main Ethiopian Rift
- XL323 EGU2012-5373
J. Arnoso, FG. Montesinos, M. Benavent, and EJ. Vélez
The 2011 volcanic crisis at El Hierro (Canary Islands): monitoring ground deformation through tiltmeter and gravimetric observations
- XL324 EGU2012-4050
G. Prates, M. Berrocoso, A. Fernández-Ros, A. García, and R. Ortiz
Processes of Compression-Expansion and Subsidence-Uplift detected by the Spatial Inclinator (IESHI) in the El Hierro Island eruption (October, 2011)
- XL325 EGU2012-4351
M. Berrocoso, A. Fernandez-Ros, G. Prates, M. Martin, R. Hurtado, J. Pereda, M.J. Garcia, L. Garcia-Cañada, R. Ortiz, and A. Garcia
Analysis of surface deformation during the eruptive process of El Hierro Island (Canary Islands, Spain): Detection, Evolution and Forecasting.
- XL326 EGU2012-1421
S. Barde-Cabusson, J. Gottsmann, J. Martí, X. Bolós, A. Camacho, A. Geyer, Ll. Planagumà, E. Ronchin, and A. Sánchez
Geophysical insights on the distribution of monogenetic volcanoes in the Garrotxa volcanic field
- XL327 EGU2012-2162
X. Bolós, **S. Barde-Cabusson**, D. Pedrazzi, J. Marti, A. Casas, M. Himi, R. Lovera, and A. Geyer
Investigation of the inner structure of La Crosa de Sant Dalmai maar (Catalan Volcanic Zone, Spain)
- XL328 EGU2012-2185
N Geshi, V Acocella, and J Ruch
Evolution of deep collapse caldera: from structural to gravitational process
- XL329 EGU2012-5334
S. Poppe, M. Kervyn, H. Soulé, V. Cnudde, T. De Kock, and P. Jacobs
Volcano-tectonic architecture of a Caldera Complex, Karthala volcano, Grande Comore: new field observations
- XL330 EGU2012-2744
V. Acocella, D.M. Palladino, R. Cioni, P. Russo, and S. Simeì
Caldera structure, amount of collapse and erupted volumes:
- XL331 EGU2012-11185
G. De Natale, A. Troiano, M.G. Di Giuseppe, S. Carlino, C. Troise, and R. Somma
Possible mechanisms for uplift and subsidence at collapse calderas
- XL332 EGU2012-12562
R. Scarpa, P. Capuano, U. Tammaro, and R. Bilham
Ground deformation at Campi Flegrei caldera using long water pipe tiltmeters and sea level gauges
- XL333 EGU2012-7904
M. Paulatto, A. B. Watts, C. Peirce, J. Hunter, D. Basset, W. Stratford, and L. M. Kalnins
Potential field and bathymetric constraints on volcanism and tectonics at the submarine Monowai cone and caldera (Kermadec arc)
- XL334 EGU2012-3657
A. Amoroso, **L. Crescentini**, and I. Sabetta
Is the Campi Flegrei (Italy) deformation pattern constant with time? Comparing the 1982-1984 unrest, 1994-1999 subsidence, 2000-2001 and 2005-2007 miniuplifts.
- XL335 EGU2012-2091
T. R. Walter, D. Legrand, G.D. Granados, G. Reyes, and R. Arámbula
Volcano eruption monitoring by thermal image correlation: pixel offsets show episodic dome growth at Colima volcano
- XL336 EGU2012-2353
J. Gottsmann
The Great Tambora 2015 eruption: Could we see it coming?

- XL337 EGU2012-9888
M. Gerbault, F. Cappa, and R. Hassani
 Effects of gravity and the state of pore-fluid pressure in the bedrock surrounding an idealised magma chamber, compared to the "Mogi" approach.
- XL338 EGU2012-9404
E. P. Holohan, H. Sudhaus, T. R. Walter, M. P. J. Schöpfer, and J. J. Walsh
 Interpreting sub-surface deformation sources at volcanoes: Insights from DEM models
- XL339 EGU2012-2888
 J. Hickey, **J. Gottsmann**, and R. del Potro
 What's causing the world's largest deformation anomaly in southern Bolivia? Insights from Finite Element Analysis
- XL340 EGU2012-2218
P. Kalenda and L. Neumann
 The relationship between volcanic and seismic activity
- XL341 EGU2012-8102
J. Liu and X. Chen
 Volcanisms and Earthquakes Related to the Pacific Plate Subduction in Northeast Asia
- XL342 EGU2012-2548
X. Mao and J.H. Li
 The distribution and tectonic framework of Late Paleozoic volcanoes in the Junggar basin and its adjacent area, NW China

HS2.5 – Mountain Hydrology: Monitoring and modeling of snow (merged with Sub-arctic hydrology) (co-listed) –

Orals

Convener: J. Parajka | Co-Conveners: M. Lehning, C. B. Ménard, H. Dahlke, S. McGrane

Room: 33

Chairperson: H. Dahlke

- 08:30–08:45 EGU2012-8543
H. Kooi, V. Watson, and V.F. Bense
 What controls inter-basin variation in cold-season river flow recession in permafrost basins in sub-Arctic Siberia?
- 08:45–09:00 EGU2012-2880
S. Lyon, M. Nathanson, A. Spans, T. Grabs, H. Laudon, J. Temnerud, K. Bishop, and S. Seibert
 Specific discharge variability in a boreal landscape
- 09:00–09:15 EGU2012-11699
N. Wever and M. Lehning
 Snow cover and soil moisture in mountains
- 09:15–09:30 EGU2012-5556
C. B. Ménard, R. Essery, and J. Pomeroy
 Modelling snow distribution and snowmelt energetics in shrub tundra
- 09:30–09:45 EGU2012-13690
M.K. MacDonald, R.L.H. Essery, and J.W. Pomeroy
 Effects of Chinook winds (foehn) on snow cover in western Canada
- 09:45–10:00 EGU2012-4011
D. Tetzlaff, C. Soulsby, J. Buttle, S. Carey, H. Laudon, J. McDonnell, K. McGuire, J. Seibert, and J. Shanley
 Northern Watershed Ecosystem Response to Climate Change (North-Watch) - Towards a comparative ecohydrology of northern catchments.

COFFEE BREAK

Chairperson: C. Ménard

- 10:30–10:45 EGU2012-780
A.A. Sorman, A. Sensoy, E. Yamankurt, and E. Gozel
 A comparison of SRM and HBV models for real time runoff forecasting in the Upper Euphrates Basin, Turkey
- 10:45–11:00 EGU2012-905
M. Girotto, S.A. Margulis, and M. Durand
 Exploration of long-term reanalysis of Sierra Nevada snowpack inferred from snow covered area information

- 11:00–11:15 EGU2012-7531
R. Mott, D. Scipion, A. Berne, N. Dawes, and M. Lehning
 Dynamics of small-scale precipitation enhancement in mountainous terrain
- 11:15–11:30 EGU2012-7849
T. Grünwald, M. Schirmer, and M. Lehning
 Statistical modeling of the small-scale spatial variability of snow depth
- 11:30–11:45 EGU2012-3250
A. Winstral, D. Marks, R. Gurney, and A. Kahl
 A computationally efficient tool for simulating wind-affected snow accumulations
- 11:45–12:00 EGU2012-7053
A. Nolin, K. Blauvelt, K. Gleason, H. Lintz, T. Roth, and E. Sproles
 Linkages between snowcover, fire, and vegetation in mountain watersheds of the Pacific Northwest, USA

HS2.5 – Mountain Hydrology: Monitoring and modeling of snow (merged with Sub-arctic hydrology) (co-listed) –

Posters

Convener: J. Parajka | Co-Conveners: M. Lehning, C. B. Ménard, H. Dahlke, S. McGrane

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: S. McGrane

- A102 EGU2012-1394
 T. Kerr, S. Singh, L. Kees, C. Webster, M. Clark, J. Hendrikx, and **R. Woods**
 J-SEx : The Jollie Snow Experiment, New Zealand
- A103 EGU2012-1451
 S. K. Singh, T. Kerr, C. Zammit, and **R. Woods**
 Representation of sub-grid snow variability in stream flow modelling in an Alpine catchment
- A104 EGU2012-1614
A. A. Beylich and K. Laute
 Controls and spatio-temporal variability of runoff, solute fluxes and chemical denudation in the fjord landscape of the inner Nordfjord, western Norway
- A105 EGU2012-1731
K. Förster and G. Meon
 Assessing the model performance of snow water resources simulated by a coupled mesoscale atmospheric and hydrologic model
- A106 EGU2012-2230
S. Morin, Y. Lejeune, B. Lesaffre, J.-M. Panel, D. Poncet, P. David, and M. Sudul
 18 years of quality-controlled snow and meteorological data from a mid-altitude mountain site (Col de Porte, France) for driving and evaluating the snowpack component of land-surface models
- A107 EGU2012-2612
K. Helfricht, M. Keuschnig, A. Heilig, C. Mayer, and M. Kuhn
 Airborne laser scan measurements of winter snow accumulation in high alpine catchments - hydrological implications and verification by ground penetrating radar at glacier surface
- A108 EGU2012-3444
M. Shrestha, L. Wang, T. Koike, H. Tsutsui, Y. Xue, and Y. Hirabayashi
 Inverse simulation of snowmelt runoff and snow cover area using the energy balance-based distributed snowmelt model (WEB-DHM-S) for the correction of basin-scale snowfall
- A109 EGU2012-3725
D. Vikhamar-Schuler, J. M. Edwards, G. Rooney, and J. Kristiansen
 Evaluation of JULES multi-layer snow scheme for Norwegian snow conditions
- A110 EGU2012-4304
T. Grabs, H. Laudon, J. Seibert, M. Wallin, and K. Bishop
 Links between topography and the architecture of near stream zones in the Swedish Krycklan study catchment: Implications for aqueous and gaseous fluxes of organic and inorganic carbon
- A111 EGU2012-4553
J. Mäkinen, M. Tammelin, and T. Kauppila
 Natural phosphorus and dry matter loading from clayey boreal catchments in Finland
- A112 EGU2012-5110
 B. Luks, **M. Osuch**, and R.J. Romanowicz
 A comparison of two approaches to modelling snow cover dynamics at the Polish Polar Station at Hornsund
- A113 EGU2012-5204
A. Frampton, S. L. Painter, and G. Destouni
 Effects of hydrological inputs on the dynamics of permafrost system formation and degradation

- A114 EGU2012-5279
K. Schneider, J. Schöber, and J. Stötter
Comparing the spatial variability of snow depth on glacierized and non- glacierized surfaces using a geostatistical approach
- A115 EGU2012-5426
L. A. Boscarello, G. Ravazzani, D. Rabuffetti, and M. Mancini
Raster based snow and glaciers models in large Alpine catchments hydrological balance: the Rhone case study
- A116 EGU2012-5671
M. Rogger, H. Hausmann, K. Krainer, E. Brueckl, and G. Bloeschl
On the use of geophysical information for distributed hydrological modelling in a mountain catchment
- A117 EGU2012-5893
P. Vrežna, M. Brenčič, I. Sinjur, and S. Sokratov
Detail isotopic stratigraphy of snowpack - case study from Julian Alps (Slovenia)
- A118 EGU2012-7233
C. Tobin, **A. Rinaldo**, and B. Schaefli
Integrating snowfall limit forecasts to improve hydrological modeling
- A119 EGU2012-7272
S. Surer, K. Bolat, and Z. Akyurek
A webgis supported snow information system with long time satellite data for Turkey
- A120 EGU2012-7333
S. Frey and H. Holzmann
Snow cover modelling as an important tool in the rainfall runoff relationship
- A121 EGU2012-8226
Z. Akyurek, S. Surer, and K. Bolat
Temporal Analysis of Snow Cover Depletion in the Eastern Part of Turkey Based on MODIS-Terra and Temperature Data
- A122 EGU2012-8316
V.F. Bense, H. Kooi, G. Ferguson, and T. Read
Permafrost degradation as a control on hydrogeological regime shifts in a warming climate
- A123 EGU2012-8820
R. Pimentel, J. Herrero, and M.J. Polo
Assimilation of multiscale terrestrial photography data into a physical model of snow processes
- A124 EGU2012-9205
U. Strasser, T. Marke, F. Hanzer, H. Ragg, H. Kleindienst, R. Wilcke, and A. Gobiet
A1B scenario simulations of future natural snow conditions in Tyrol and Styria (Austrian Alps)
- A125 EGU2012-9371
A. Petrelli, B. Crouzy, and P. Perona
Snow cover and End of Summer Snowline statistics from a simple stochastic model
- A126 EGU2012-9993
E. Mayr, W. Hagg, C. Mayer, and L. Braun
Influence of snow accumulation and annual glacier mass balance on the calibration results of a spatially distributed conceptual hydrological model
- A127 EGU2012-10181
J. Garvelmann, S. Pohl, and M. Weiler
The application of time-lapse photography for the observation of snow processes in mountainous catchments
- A128 EGU2012-10782
F. Martina, F. Caparrini, S. Gabellani, R. Rudari, F. Castelli, and G. Boni
Data assimilation in a multilayer dynamic model for soil moisture estimation in mountain regions
- A129 EGU2012-10881
A.-L. Dhomps, E.A. Zakharova, A.V. Kouraev, S. Biancamaria, and N.M. Mognard
Decadal dynamics of Arctic continental water cycle in the framework of MONARCH-A .
- A130 EGU2012-11050
J. Bellinger, S. Achleitner, J. Schöber, K. Schneider, F. Schöberl, and R. Kirnbauer
Sensing runoff sensitivity of snow covered area influenced by vertical discretisation of a hydrological model
- A131 EGU2012-11194
L. Kuksina, N. Alekseevsky, D. Aibulatov, and A. Chetverova
Substantial flows transformation processes in the Lena River delta
- A132 EGU2012-11477
M. Bavay, T. Egger, C. Fierz, and M. Lehning
MeteoIO: A Pre-Processing Library for Numerical Models
- A133 EGU2012-11622
K. Abdollahi and O. Batelaan
A snow extent time series assimilation using MODIS images and temperature data, case study Koohrang, Iran

- A134 EGU2012-11694
L. Hülsmann, T. Geyer, D. Karthe, J. Priess, and C. Schweitzer
Process-based hydrological modeling using SWAT: The effect of permafrost on water resources in the large-scale river catchment Kharaa / Mongolia
- A135 EGU2012-476
M. Dosa, L. Holko, and Z. Kostka
How long does the snow water stay in a catchment?
- A136 EGU2012-11769
I. Clemenzi, F. Pellicciotti, and P. Burlando
Understanding snow accumulation patterns in an highly glacierized alpine catchment
- A137 EGU2012-13716
R. Holden
Snow-vegetation interactions across the tundra-taiga interface: stabilising feedbacks or drivers of rapid environmental change?

HS4.6 – Why predict? The value of prediction in hydrological sciences and policy (co-listed) – Orals

Convener: J.S. Verkade | Co-Conveners: A. Iglesias, M. Haasnoot, H. Winsemius, S. Dessai

Room: 39

Chairperson: n.n.

- 10:30–10:45 EGU2012-9534
A. Lopez and L.A. Smith
Will current probabilistic climate change information, as such, improve adaptation?
- 10:45–11:00 EGU2012-8763
J.H. Kwakkel and **J.S. Timmermans**
Exploring predictions of safe operating spaces for human water use
- 11:00–11:15 EGU2012-2927
H. Middelkoop and M. Haasnoot
Learning from a History of Futures: 60 Years of Scenario use for Water Management in the Netherlands
- 11:15–11:30 EGU2012-11253
S. Quiroga, A. Iglesias, A. Diz, and L. Garrote
Potential economic value of drought information to support early warning in Africa
- 11:30–11:45 EGU2012-1462
T.C. Pagano
The Value of Humans in the Operational River Forecasting Enterprise
- 11:45–12:00 EGU2012-14071
M.D. Cranston, R. Maxey, A.C.W. Tavendale, and P. Buchanan
Using ensemble rainfall predictions in a countrywide flood forecasting model in Scotland

HS4.6 – Why predict? The value of prediction in hydrological sciences and policy (co-listed) – Posters

Convener: J.S. Verkade | Co-Conveners: A. Iglesias, M. Haasnoot, H. Winsemius, S. Dessai

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- A165 EGU2012-2008
N. Candogan Yossef, H. Winsemius, L.P.H. van Beek, E. van Beek, and M.F.P. Bierkens
Value assessment of a global hydrological forecasting system
- A166 EGU2012-12133
M. Latraverse1, P. Cote, and B. Larouche1
Assessing The Value of Hydrological Ensemble Predictions for Rio Tinto Alcan's Hydropower System in Eastern Canada
- A167 EGU2012-9646
A. Lopez and L.A. Smith
Signal, Insight and Noise: Contrasting the Decision Relevance of climate models with climate science
- A168 EGU2012-13904
J Sepulveda and M Mendizabal
Defining adaptation strategies to climate change combining hydro-economic impact studies with uncertainty
- A169 EGU2012-13145
D. Miozzo, L. Ferraris, and M. Altamura
Prediction, Communication and Urban policies. Is there enough space for three faces on a single medal?

- A170 EGU2012-14070
W.J. de Lange
 In search of criteria for the integrated hydrological model NHI to adequately support national decisions on climate adaptation in the Netherlands
- A171 EGU2012-13426
P. Wikman-Svahn, H. Carlsen, and K. Mossberg Sonnek
 Value judgments and treatment of uncertainty in sea level rise projections
- A172 EGU2012-11372
N. Pineux and A. Degré
 Runoff inundation hazard cartography
- A173 EGU2012-484
S. Ashraf Vaghefi, S. J. Mousavi, K.C. Abbaspour, and H. Yang
 An Imperialist Competitive Algorithm Artificial Neural Network Method to Predict Runoff
- A174 EGU2012-5447
E. Paleologos, I. Skitzi, and K. Katsifarakis
 The value of "black-box" neural network modeling in subsurface flow prediction

NH1.4/AS4.14 – Lightning: physics, detection and atmospheric effects (co-organized) – Orals

Convener: Y. Yair | Co-Conveners: S. Soula, H. D. Betz, Y. Takahashi, C. Price

Room: 1

Chairperson: Yoav Yair and Yukihiro Takahashi

- 08:30–08:45 EGU2012-4091
Y. Hobara, S. Watahiki, M. Hayakawa, R. Holzworth, and M. Parrot
 Global lightning characteristics deduced from ELF/VLF electromagnetic emissions observed by the DEMETER spacecraft
- 08:45–09:00 EGU2012-12917
M. L. Hutchins, R. H. Holzworth, C. J. Rodger, S. Heckman, and J. B. Brundell
 WWLLN Absolute Detection Efficiencies and the Global Lightning Source Function
- 09:00–09:15 EGU2012-3429
C. Morales, R.I. Albrecht, S. Goodman, H. Hoeller, J. Bailey, R. Blakeslee, S. Rudlosky, J. Hall, E.M. Anselmo, J.R. Neves, and M. Lacerda
 Understanding the different lightning detection technologies: A contribution from CHUVA-GLM field campaign
- 09:15–09:30 EGU2012-6169
H. Höller, H.-D. Betz, K. Schmidt, and S. Diebel
 Severe Weather Identification based on LINET Lightning Data
- 09:30–09:45 EGU2012-13711
C. Liu, E. Novakovskaia, and S. Heckman
 Relations Between Total Lightning Flash Rate and Radar Reflectivity in Convective Storms
- 09:45–10:00 EGU2012-10591
 M. Formenton, D. Casella, S. Dietrich, **A. Mugnai**, G. Panegrossi, P. Sanò, H.-D. Betz, C. Price, and Y. Yair
 Using a cloud electrification model to study charge separation processes and their relationships with cloud microphysical structure

COFFEE BREAK

Chairperson: Yukihiro Takahashi and Yoav Yair

- 10:30–10:45 EGU2012-1285
T. Farges, C. Millet, and R. S. Matoza
 Infrasound from lightning measured in Ivory Coast
- 10:45–11:00 EGU2012-6541
O A van der Velde, J. Montanyà, D. Romero, N. Pineda, and S. Soula
 Ebro Lightning Mapping Array: sprite-producing lightning and ground-to-cloud-to-ground flashes
- 11:00–11:15 EGU2012-13413
 Y. Sanmiya, N. Kobayashi, T. Kudo, **Y. Takahashi**, M. Sato, Y. Shima, T. Yamada, NHK Cosmic Shore Project, H. C. Stenbaek-Nielsen, M. G. McHarg, T. Kanmae, R. Haaland, Y. Yair, W. A. Lyons, and S. A. Cummer
 Development of sprite streamers and preceding halos and elves

- 11:15–11:30 EGU2012-2515
T.-Y. Huang, C. L. Kuo, C. Y. Chiang, A. B. Chen, H. T. Su, and R. R. Hsu
 Lightning-Induced Transient Emissions in the mesospheric airglow layers - ISUAL Observations and Modeling
- 11:30–11:45 EGU2012-10867
T. Neubert, O. Chanrion, E. Arnone, F. Zanotti, S. Cummer, J. Li, M. Füllekrug, and O. van der Velde
 The Giant Jet
- 11:45–12:00 EGU2012-7406
T. Gjesteland, N. Østgaard, A. B. Collier, B. E. Carlson, C. Eyles, and D. M. Smith
 Many new RHESSI TGFs

NH1.4/AS4.14 – Lightning: physics, detection and atmospheric effects (co-organized) – Posters

Convener: Y. Yair | Co-Conveners: S. Soula, H. D. Betz, Y. Takahashi, C. Price

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Serge Soula and Yoav Yair

- XY195 EGU2012-1262
Y. Yair, K. Mezuman, B. Ziv, M. Priente, M. Glickman, Y. Takahashi, and T. Inoue
 Predicting global thunderstorm activity for sprite observations from the International Space Station
- XY196 EGU2012-1270
G. Elhalel, Y. Yair, C. Price, S. Halatzi, Y. Reuveni, and D. Shtibelman
 Diurnal variation of the global fair weather current from measurements at a Negev desert station in Israel
- XY197 EGU2012-1685
 J. A. Santos, J. Sousa, M.A. Reis, S.M. Leite, S. Correia, **H. Fraga**, and M. Fragoso
 Large-scale forcing on lightning in Portugal
- XY198 EGU2012-1778
S. Shalev, H. Saaroni, B. Ziv, and Y. Yair
 Lightning multiplicity characteristics in Eastern Mediterranean thunderstorms
- XY199 EGU2012-4249
M. Iwamoto, Y. Hobara, K. Ohta, T. Minatohara, T. Otsuyama, and M. Hayakawa
 Subionospheric VLF perturbations of red sprites: 3D FDTD modeling and experimental results
- XY200 EGU2012-6265
A. Mezentsev and M. Füllekrug
 On 3D detection of lightning discharges and associated events with a small scale interferometric network of radio receivers
- XY201 EGU2012-6549
Z. Kawasaki
 Estimation of charge distributions related with individual lightning discharges
- XY202 EGU2012-8213
R. S. Hansen, N. Østgaard, T. Gjesteland, and B. Carlson
 Fluence of photons from Terrestrial Gamma ray flashes in aircraft and balloon altitudes - dependence of initial parameters in simulations
- XY203 EGU2012-9978
S. Soula, H. Bresson, Z. Yu, O. van der Velde, J. Montanya, M. Füllekrug, and J.-F. Georgis
 Characteristics of the CG lightning flashes producing sprites and elves above a same storm
- XY204 EGU2012-9283
J. Bór, J. Tóth, K. Yamashita, Y. Hobara, G. Satori, M. Hayakawa, and H.D. Betz
 Relation between the height and size of sprites and the parameters of the triggering lightning flash - preliminary results
- XY205 EGU2012-10375
D. Cinar, O. Chanrion, and T. Neubert
 X-and gamma- emissions in the upper atmosphere related with thunderstorms
- XY206 EGU2012-13291
C. Abril and L.F. Cristancho
 Simulation of electron avalanches using Geant4
- XY207 EGU2012-13550
 A. Kulak, **J. Mlynarczyk**, M. Ostrowski, J. Kubisz, and A. Michalec
 Analysis of impulse signals with Hylaty ELF station
- XY208 EGU2012-10647
G. Satori, V. Mushtak, M. Neska, T. Nagy, and V. Barta
 Global lightning dynamics deduced from Schumann resonance frequency variations at two sites ~ 550 km apart

- XY209 EGU2012-10610
CG Price, B Lynn, Y Yair, N Reicher, and A Khain
Modeling Lightning Activity in Hurricanes
- XY210 EGU2012-6656
S. M. Mendes and J. A. Corte-Real
Investigation of the atmospheric environment in which deep convection associated with thunderstorms and lightning develops over continental Portugal - the RAIDEN Project.
- XY211 EGU2012-1417
I. Kolmasova, O. Santolik, and P. Novak
Bursts of Regular Magnetic Field Pulses Produced by Lightning Discharges
- XY212 EGU2012-4137
Z. Kawasaki
Observations of thunderstorm activity by RADAR network in Osaka
- XY213 EGU2012-9369
B. E. Carlson, P. Kochkin, A. P. J. van Deursen, R. Hansen, T. Gjesteland, and N. Ostgaard
A direct search for energetic electrons produced by laboratory sparks
- XY214 EGU2012-9465
M. Marisaldi, F. Fuschino, M. Tavani, S. Dietrich, C. Labanti, M. Galli, A. Argan, A. Trois, E. Del Monte, F. Longo, G. Barbiellini, A. Bulgarelli, F. Gianotti, and M. Trifoglio
Observational evidence of two different populations of Terrestrial Gamma-ray Flashes
- XY215 EGU2012-9489
G. Harrison and M. Joshi
Early twentieth century response of the global atmospheric electric circuit to ENSO
- XY216 EGU2012-13047
M. Fullekrug, A. Mezentssev, S. Soula, O. van der Velde, J. Poupeney, C. Sudre, S. Gaffet, and J. Pincon
Digital Low Frequency Radio Camera
- XY217 EGU2012-7116
A.A Toropov, V.I. Kozlov, V.A. Mullayarov, and S.A. Starodubtsev
Neutron bursts associated with cloud-to-ground lightning discharges.
- XY218 EGU2012-5801
E. Arnone, J. Bor, O. A. Chanrion, R. Labanti, K. Mezuman, T. Neubert, A. Odzimek, S. Soula, O. van der Velde, Y. Yair, and Eurosprite
On the distribution and seasonal cycle of transient luminous events above Europe
- XY219 EGU2012-5659
N. Ostgaard, B. Carlson, R. S. Hansen, T. Gjesteland, and A. Collier
How common are TGFs?

NH1.6/HS4.7 – Flood risk and uncertainty (co-organized) – Orals

Convener: G. T. Aronica | Co-Conveners: H. Apel, G. J.-P. Schumann

Room: 1

Chairperson: n.n.

- 13:30–13:45 EGU2012-886
J.S. Wong, J. Freer, P.D. Bates, and D.A. Sear
Sensitivity analysis of hydraulic model to morphological changes and changes in flood inundation extent
- 13:45–14:00 EGU2012-1741
N. Van Steenbergen and P. Willems
Non-parametric data-based approach for the quantification and communication of uncertainties in river flood forecasts
- 14:00–14:15 EGU2012-1750
C Neuhold
Quantifying uncertainty inherent to state-of-the-art flood risk assessment
- 14:15–14:30 EGU2012-9663
R. Hostache, P. Matgen, and L. Giustarini
A new GNSS-enabled floating device as a means for retrieving river bathymetry by assimilation into a hydrodynamic model
- 14:30–14:45 EGU2012-12253
A. Domeneghetti, S. Vorogushyn, A. Castellarin, B. Merz, and A. Brath
Effects of uncertainty in boundary-conditions on flood hazard assessment
- 14:45–15:00 EGU2012-13312
J. Delgado, N. Dung, B. Merz, and H. Apel
Climate and floods in the Mekong delta: uncovering GCM uncertainty

NH1.6/HS4.7 – Flood risk and uncertainty (co-organized) – Posters

Convener: G. T. Aronica | Co-Conveners: H. Apel, G. J.-P. Schumann

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY220 EGU2012-436
J. Sanyal and P. Carbonneau
Low-cost, open access flood inundation modelling with sparse data: A case study of the Lower Damodar River Basin, India
- XY221 EGU2012-738
A. Mentzafou, E. Dimitriou, and V. Markogianni
Flood hazard assessment based on a GIS based methodology
- XY222 EGU2012-2619
S. Barbetta, F. Melone, M. Franchini, and T. Moramarco
Estimating river discharge uncertainty by applying the Rating Curve Model
- XY223 EGU2012-3730
S. Grimaldi, A. Petroselli, and F. Serinaldi
Continuous simulation method versus event-based approach for design hydrograph estimation in small and ungauged basins
- XY224 EGU2012-4487
A. Tarpanelli, T. Moramarco, S. Barbetta, F. Melone, N. Berni, C. Pandolfo, and R. Morbidelli
Analyzing the spillway failure of the Montedoglio dam in Central Italy
- XY225 EGU2012-4688
R.J. Romanowicz, A. Kiczko, and M. Osuch
Influence of model reduction on uncertainty of flood inundation predictions
- XY226 EGU2012-4970
A. Gelfan
Flood risk assessment in a poorly gauged basin
- XY227 EGU2012-5166
K. Vandersteen, K. Beerten, and B. Leterme
Small scale flood risk assessment: a case study from inter-dune catchments in the Campine area, Belgium
- XY228 EGU2012-6557
J. Eleuterio, R. Mosé, A. Rozan, and **S. Payraudeau**
Impact on hydrological confidence intervals on floods damage potential estimations
- XY229 EGU2012-8570
I. Nalbantis, **I. Papageorgaki**, P. Sioras, and Ch. Ioannidis
Effect of uncertainty in Digital Surface Models on the boundary of inundated areas
- XY230 EGU2012-8793
P. Pun?ochá? and A. Podlaha
Flood Loss Model for Austria
- XY231 EGU2012-8812
J. Valentova, P. Valenta, L. Weyskrabova, and **T. Dostal**
Hydraulic analysis of measures for flood mitigation in floodplain
- XY232 EGU2012-9559
I. Ott, D. Duthmann, J. Liebert, P. Berg, H. Feldmann, J. Ihringer, H. Kunstmann, B. Merz, G. Schädler, and S. Wagner
Climate change impact on medium and small sized river catchments in Germany: An ensemble assessment
- XY233 EGU2012-10348
H. Apel, N.V. Dung, J.M. Delgado, and B. Merz
Future flood hazard under climate change in the Mekong Delta
- XY234 EGU2012-10439
P. Alfredini, **D.L. Cartacho**, E. Arasaki, M. Rosso, W.C. Sousa Jr, D. R. Lanzieri, and J.P.M. Ferreira
Extreme events assessment methodology coupling rainfall and tidal levels in the coastal floodplain of the São Paulo North Coast (Brazil) for drainage purposes
- XY235 EGU2012-10749
G.T. Aronica, J. Neal, A. Candela, and P.D. Bates
Influence of microtopography for “uncertain
- XY236 EGU2012-11657
W.H.J. Toonen, M.M. de Molenaar, F.P.M. Bunnik, and H. Middelkoop
Palaeoflood extremes of the Lower Rhine
- XY237 EGU2012-11900
A. Domeneghetti, A. Castellarin, A. Brath, and A. Colombo
A simplified quasi-2d model of the Po River for the identification of large-scale flood-risk mitigation measures
- XY238 EGU2012-12744
A. Candela, S. Naso, and G.T. Aronica
On the use of innovative post-event data for reducing uncertainty in calibrating flood propagation models

- XY239 EGU2012-13179
M.E. Wilkinson, P.F. Quinn, A. Nicholson, and G.M. O'Donnell
 Flood risk mitigation through natural flood management: reducing uncertainty through process studies at the local catchment scale
- XY240 EGU2012-13215
M.-M. Gy?ri and I. Haidu
 Flood plain analysis for Petris, , Troas, and Monoros, tia watersheds, the Arad department, Romania

NH2.1 – Modeling of Volcanic Hazards (including Arne Richter Award for Outstanding Young Scientists Lecture) –

Orals

Convener: S. Charbonnier | Co-Conveners: C. Bonadonna, C. Connor

Room: 4

Chairperson: S.J. Charbonnier, C. Bonadonna, C. Connor

- 08:30–08:45 EGU2012-5037
G. Wadge
 Pyroclastic flow hazard assessment at Soufriere Hills Volcano, Montserrat
- 08:45–09:00 EGU2012-6183
E.T. Spiller, E.S. Calder, A. Patra, E.B. Pitman, J.O. Berger, R.L. Wolpert, and M.J. Bayarri
 Efficient use of flow simulations for developing probabilistic hazard maps
- 09:00–09:15 EGU2012-2012
P. Rowley, D. Waltham, and S. McLean
 Reverse-engineering a submarine pyroclastic flow from its deposit
- 09:15–09:30 EGU2012-4163
 T. Esposti Ongaro, **A. Neri**, and M. Todesco
 Assessing pyroclastic density current dynamics and hazard of Plinian events at Campi Flegrei (Italy) by using 3D numerical simulations
- 09:30–09:45 EGU2012-8574
A Costa, A. Folch, G. Macedonio, B. Giaccio, R. Isaia, and VC Smith
 Quantifying distal dispersal and impact of volcanic ash from super-eruptions: an application to Campanian Ignimbrite
- 09:45–10:00 EGU2012-5619
E. Piegari, R. Di Maio, and R. Scandone
 Cellular automaton simulations of the temporal pattern of activity of a volcano with an application to Vesuvius activity between 1631 and 1944

COFFEE BREAK

Chairperson: S.J. Charbonnier, C. Bonadonna, C. Connor

- 10:30–11:30 EGU2012-14451
L. Clarisse
 Atmospheric measurements of volcanic eruptions with the infrared sounder IASI (Arne Richter Award for Outstanding Young Scientists Lecture)
- 11:30–11:45 EGU2012-12809
H. Delgado Granados, R. Ramírez Guzmán, J. L. Villareal Benítez, and T. García Sánchez
 VOLCWORKS: A suite for optimization of hazards mapping
- 11:45–12:00 EGU2012-6701
 J.L. Palma, **S. Charbonnier**, L. Courtland, G. Valentine, C. Connor, and L. Connor
 Assessing volcanic hazards with Vhub
- 12:00–12:15 EGU2012-6612
E. R. Stefanescu, A. Patra, M. F. Sheridan, and G. Cordoba
 Estimating conditional probability of volcanic flows for forecasting event distribution and making evacuation decisions
- 12:15–12:30 EGU2012-6092
R. Sobradelo, J. Martí, A.T. Mendoza-Rosas, and G. Gómez
 Volcanic hazard assessment for the Canary Islands (Spain) using extreme value theory, and the recent volcanic eruption of El Hierro

NH2.1 – Modeling of Volcanic Hazards (including Arne Richter Award for Outstanding Young Scientists Lecture) –

Posters

Convener: S. Charbonnier | Co-Conveners: C. Bonadonna, C. Connor

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: S.J. Charbonnier, C. Bonadonna, C. Connor

- XY241 EGU2012-2005
D. Pedrazzi, J. Marti, and **A. Geyer**
Stratigraphy, sedimentology and eruptive mechanism of the El Golfo phreatomagmatic edifice (Lanzarote, Canary Islands)
- XY242 EGU2012-2040
O. Garcia, J. Marti, G. Aguirre-Diaz, A. Geyer, and I. Iribarren
Pyroclastic density currents from Teide-Pico Viejo (Tenerife, Canary Islands): implications for hazard assessment
- XY243 EGU2012-6688
A. Bevilacqua, C. Fourmentraux, A. Bertagnini, M. Bisson, T. Esposti Ongaro, F. Flandoli, R. Isaia, A. Neri, and M. Rosi
Mapping long-term pyroclastic density current hazard in a caldera setting: application to Campi Flegrei caldera (Italy)
- XY244 EGU2012-8997
R. Constantinescu, J.C. Thouret, L. Sandri, I.A. Irimus, and R. Stefanescu
BET_VH probabilistic assessment of pyroclastic flows hazard at El Misti volcano, South Peru, based on geological record and numerical simulations with TITAN2D
- XY245 EGU2012-587
S.J. Charbonnier, C.B. Connor, L. Connor, T. Dixon, and J.A. Saballos
Numerical modeling of volcanic flows: towards a short-term hazard assessment tool
- XY246 EGU2012-12959
J.N. Procter, A.V. Zernack, I. Fuller, E. Philips, and S.J. Cronin
Quantifying the geomorphic impacts and sediment transport of a lake break-out lahar, Mt. Ruapehu, New Zealand.
- XY247 EGU2012-2417
B. Cagnoli and G.P. Romano
Mobility of Pyroclastic Flows and Rock Avalanches: a Functional Relationship of Scaling Parameters
- XY248 EGU2012-11869
B. Cordonnier, S. Self, and M. Manga
Lava Flows Cooling: The initial hypothesis
- XY249 EGU2012-10837
Dr Bonasia, **Dr Costa**, Dr Folch, Dr Macedonio, and Dr Capra
Numerical inversion and reconstruction of the medial and distal tephra deposit of the 1982 El Chichon eruption (Chiapas, Mexico). Implications for hazard assessment
- XY250 EGU2012-11025
C. Bonadonna and A. Costa
Estimating the volume of tephra deposits: a new simple strategy
- XY251 EGU2012-5985
S Bartolini, R Sobradelo, A Geyer, and J Martí
Volcanic hazard assessment at Deception Island
- XY252 EGU2012-3695
G Phillipson and **J Gottsmann**
An assessment of volcanic unrest in the 21st century
- XY253 EGU2012-14398
F Vallianatos, A Tzanis, G Michas, and G Papadakis
Evidence of non-extensivity and complexity in the seismicity observed during 2011-2012 at the Santorini volcanic complex, Greece

NH3.1 – Mechanisms and processes of landslides induced by water – Orals

Convener: H. Fukuoka | Co-Conveners: P. Frattini, G. Crosta, N. Huvaj, T.A. Bogaard, J.-P. Malet, R. Greco

Room: 4

Chairperson: Nejan Huvaj, Thom Bogaard, Hiroshi Fukuoka

- 13:30–13:45 EGU2012-8079
N.K. Meyer, A.V. Dyrrdal, R. Frauenfelder, B. Etzelmüller, and F. Nadim
Estimating critical water supply for debris flow initiation in Norway
- 13:45–14:00 EGU2012-7580
M. N. Papa, V. Medina, A. Bateman, and F. Ciervo
Derivation of debris flow critical rainfall thresholds from land stability modeling

- 14:00–14:15 EGU2012-5378
M. Ahmadiadli, **N. Huvaj**, and K. Toker
Rainfall triggered landslides in unsaturated soils: a numerical sensitivity analysis for rainfall threshold
- 14:15–14:30 EGU2012-10757
A. Galeandro, V. Simeone, and J. Šim?nek
Effects of rainfall infiltration into fractured and swelling soils on triggering shallow landslides
- 14:30–14:45 EGU2012-11737
J.M. Azañón, J. Castro, **C. Ureña**, and M.J. Rodríguez-Peces
The role of water in the formation of clay-rich layers at the slip surface of slope instabilities (Diezma landslide, SE Spain)
- 14:45–15:00 EGU2012-13604
P. Schneider, L. Strouhal, S. Pool, and J. Seibert
True colors - changing perceptions of hydrological processes at a hillslope prone to slide

NH3.1 – Mechanisms and processes of landslides induced by water – Posters

Convener: H. Fukuoka | Co-Conveners: P. Frattini, G. Crosta, N. Huvaj, T.A. Bogaard, J.-P. Malet, R. Greco

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Paolo Frattini, Roberto Greco, Hiroshi Fukuoka

- XY254 EGU2012-2307
L. Brocca, F. Ponziani, F. Melone, T. Moramarco, N. Berni, and W. Wagner
Improving landslide movement forecasting using ASCAT-derived soil moisture data
- XY255 EGU2012-4365
B. Udvardi, A. Raveloson, F. Visnovitz, Cs. Szabó, I. Kovács, and B. Székely
Sedimentological features of lateritic and saprolitic horizons in a mid-slope lavaka, Central Highlands, Madagascar
- XY256 EGU2012-6466
P. Hazenberg, S. Estifanos, R. T. W. L. Hurkmans, and **R. Uijlenhoet**
Linking a physically based model with a stochastic hollow evolution model to improve our understanding on the spatial and temporal behavior of landslide prone areas and the impact of climate change
- XY257 EGU2012-6492
D. Rozos, C. Loupasakis, J. Koumantakis, P. Tsangaratos, and K. Markantonis
Remediating Mass Movements, induced by Water, in Urban Environments - an example from Chalki Village, Peloponnese, Greece
- XY258 EGU2012-8420
J. Hradecký, T. Pánek, R. Brázdil, K. Šilhán, V. Smolková, and P. Zahradní?ek
Rainfall-induced landslide event of May 2010 in the eastern part of the Czech Republic - case study of the recurrent Girová landslide
- XY259 EGU2012-9529
F. Preti, A. Dani, and **G.B. Chirico**
Coupling a distributed hydrological model with a vegetated slope stability model
- XY260 EGU2012-9960
L. Olivares, E. Damiano, R. Greco, and A. Guida
Infiltration into pyroclastic slopes
- XY261 EGU2012-11954
S. Barontini, M. Peli, and R. Ranzi
Stream function of a perched water table in a sloping gradually layered soil: effect of the soil anisotropy on the flow patterns
- XY262 EGU2012-13650
A. Dok, H. Fukuoka, and Y. Hong
TRMM Applications for Rainfall-Induced Landslide Early Warning
- XY263 EGU2012-7246
E. Suba??, S.B. ?kizler, Z. Ang?n, G. Demir, and A. Kayahan
An Assessment of Rainfall-Induced Rize Landslide and Flooding
- XY264 EGU2012-7598
A. Kayahan, S.B. ?kizler, Z. Ang?n, G. Demir, and E. Suba??
Investigation of Persembe Yenikoy Landslide
- XY265 EGU2012-11441
T.A. Bogaard, **W Meng**, and L.P.H. van Beek
The long-term hydrological effect of forest stands on the stability of slopes
- XY266 EGU2012-2437
I. Pla-Sentís
Effects of changes in land use and management on landslide processes induced by water under semi-arid Mediterranean and humid tropical conditions

- XY267 EGU2012-8252
C. Camera, T. Apuani, M. Masetti, and **M. Mele**
Comparison of the results of different scale hydrogeological models on a terraced slope of Valtellina (Northern Italy)
- XY268 EGU2012-13645
D. Karnawati, H. Fukuoka, J. Kimbrough, and T. Fathani
Engineering behaviour of volcanic ash with respect to rain-induced mass movement

NH3.2 – Mechanisms and processes of landslides in seismically- or volcanically-active environments – Orals

Convener: V. Del Gaudio | Co-Conveners: J. Wasowski, H. Fukuoka, C.-T. Lee, R. W. Jibson

Room: 4

Chairperson: J. Wasowski, C.T. Lee

- 15:30–15:45 EGU2012-6937
C.-T. Lee
Characteristics of earthquake-induced landslides and differences compared to storm-induced landslides
- 15:45–16:00 EGU2012-13779
C. Sigarán-Loría, R. Hack, and J.D. Nieuwenhuis
Advance in prediction of soil slope instabilities
- 16:00–16:15 EGU2012-1418
A. Torgoev and H.-B. Havenith
Verification of the GIS-based Newmark method through 2D dynamic modelling of slope stability
- 16:15–16:30 EGU2012-1642
F. Glüer and S. Loew
Kinematic Analyses of Rock Slope Failures Triggered by the Aysén 2007 Earthquake (Patagonia, Chile)
- 16:30–16:45 EGU2012-4393
V. Del Gaudio, J. Wasowski, and S. Muscillo
Spatial and temporal variability of seismic noise records on landslide-prone slopes
- 16:45–17:00 EGU2012-5791
M.R. Gallipoli, M. Mucciarelli, and **R. Pagliuca**
Seismic amplification measured on landslides compared with requirements from simple activation models

NH3.2 – Mechanisms and processes of landslides in seismically- or volcanically-active environments – Posters

Convener: V. Del Gaudio | Co-Conveners: J. Wasowski, H. Fukuoka, C.-T. Lee, R. W. Jibson

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: V. Del Gaudio, H. Fukuoka

- XY269 EGU2012-14337
H. Fukuoka, D. Higaki, and K. Ugai
Landslides induced by the 11 March 2011 Tohoku Earthquake, Japan
- XY270 EGU2012-14341
H. Fukuoka, D. Karnawati, and A. Dok
Critical displacement for unlimited displacement of earthquake-induced landslides
- XY271 EGU2012-1861
T. Kubota
Consideration to the early warning rainfall criteria of landslides after strong earthquake in Japan
- XY272 EGU2012-4021
M.-J. Huang, Y.-L. Chiang, and **K.-J. Chang***
Kinematic simulations of the rainfall-triggered Shiaolin debris avalanche, southern Taiwan
- XY273 EGU2012-4008
K.-J. Chang, R.-F. Chen, Y.-C. Chan, C.-Y. Kuo, and C.-H. Weng
Earthquake-triggered Tsaoiling landslide mechanics and dynamic process revealed by discrete element method
- XY274 EGU2012-3387
O. Trofimchuk and **Iu. Kaliukh**
The numerical-statistical approach for hazard prediction of landslides and its application in Ukraine
- XY275 EGU2012-4438
R.-F. Chen, K.-J. Chang, Y.-C. Chan, C.-W. Lin, and C.-Y. Kuo
Landslide events in Tsaoiling and their effect on sediment flux distributions, Taiwan
- XY276 EGU2012-8480
K.-J. Shou, L.Y. Fei, M.M. Chen, C.Y. Wei, and C.Y. Hong
On the Correlation of Landslides and Sedimentation in Western Taiwan after the 1999 Chi-Chi Earthquake

- XY277 EGU2012-2894
p. Iacroy, e. berthier, b. zaval, l. audin, jr. grasso, and e. chaljub
 Landslides triggered by the Pisco earthquake (Peru, Mw8.0, 2007) : automatic detection of landslides in SPOT5 panchromatic images, and analysis of the distribution patterns.
- XY278 EGU2012-5698
M. Micu, D. Balteanu, M. Jurchescu, V. Chendes, M. Sima, and V. Zumpano
 Landslide susceptibility assessment in the Southern part of Vrancea-Buzau Seismic Region
- XY279 EGU2012-8725
 N. Berni, G. Fanelli, F. Ponziani, **D. Salciarini**, M. Stelluti, and C. Tamagnini
 Forecasting earthquake-induced landslides at the territorial scale by means of PBEE approaches
- XY280 EGU2012-10241
G. Zoppe, G. Costa, G. Marcato, and E. Forte
 Geophysic data interperetation of Passo della Morte landslide: Eastern Italian Alps

SM2.0/GD2.10/NH4.10/TS8.8 – The 23 October 2011 Van Earthquake - Losses and Lessons (co-organized) – Orals

Convener: M. Erdik | Co-Conveners: F. Wenzel

Room: 26

Chairperson: Mustafa Erdik and Friedemann Wenzel

- 15:30–15:45 EGU2012-11361
 P. Albini, M.B. Demircioglu, M. Locati, **A. Rovida**, K. Sesetyan, M. Stucchi, and D. Viganò
 Revising the historical seismicity of the region of Van
- 15:45–16:00 EGU2012-14409
S. Altuncu Poyraz, M. Alper ?engöl, and A. P?nar
 Source Rupture Process And Seismotectonic Implication Of Van Tabanlı Earthquake, October 23, 2011
- 16:00–16:15 EGU2012-12139
A. M. Akoglu, S. Jonsson, Z. Cakir, S. Ergintav, U. Dogan, G. Feng, and C. Zabc?
 The Surface Deformation and Source Parameters of the October 23rd, 2011, Mw 7.1 Van (Turkey) Earthquake from InSAR, GPS and Field Observations
- 16:15–16:30 EGU2012-14393
 E. Harmandar and **M. Erdik**
 Strong Ground Motion Data from the October 23 and November 9, 2011 Van, Turkey Earthquakes
- 16:30–16:45 EGU2012-13931
Y. Kamer, A. C. Zulfikar, M. B. Demircioglu, C. Tuzun, K. Sesetyan, and M. Erdik
 Post-Earthquake Rapid Loss Estimation for the October 23, 2011 Van Earthquake
- 16:45–17:00 EGU2012-14403
E. Uckan
 Damage to industry and utilities during the October (Mw=7.2) and November(M=5.6), Van Lake Earthquakes, Eastern Turkey

SM2.0/GD2.10/NH4.10/TS8.8 – The 23 October 2011 Van Earthquake - Losses and Lessons (co-organized) – Posters

Convener: M. Erdik | Co-Conveners: F. Wenzel

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Mustafa Erdik and Friedemann Wenzel

- XY496 EGU2012-5040
 G. Ameri, **F. Gallovi?**, A. Askan, and J. Zahradník
 Broadband Ground Motion Simulations of the 23 October 2011 Van (Eastern Turkey) Earthquake
- XY497 EGU2012-14411
N. Meral Ozel and A. Kusmezer
 2011 Van earthquake (Mw=7.2) aftershocks using the source spectra an approach to real-time estimation of moment magnitude
- XY498 EGU2012-14401
H. Ozener, U. Dogan, Z. Çakir, S. Ergintav, R. Reilinger, R. Cakmak, B. Turgut, A. Akoglu, M.A. Floyd, and D. Oz
 The Postseismic deformation of the October 23, 2011, Mw 7.2 Van (Turkey) Earthquake from GPS and InSAR
- XY499 EGU2012-254
A. Tan, H. Eyidogan, V. Gecgel, and A. Yoruk
 Recent Seismotectonics Implications Of The East Anatolian Fault Zone Close to Van, Eastern Turkey
- XY500 EGU2012-6956
A. Akinci and A. Antonioli
 Observations and Modeling of Strong Ground Motions for the 23 October 2011 Mw 7.1 Van, Turkey, Earthquake

- XY501 EGU2012-9424
S. Pulinets, D. Ouzounov, G. Giuliani, K. Tsybulya, and I. Yudin
 Results of short-term earthquake precursors multiparameter monitoring during preparation phase of Van earthquake as manifestation of the crust, surface, atmospheric and ionospheric processes synergy
- XY502 EGU2012-2791
Y. Altiner, W. Söhne, and C. Güney
 The geodetic impact of the Van earthquake from 23 October 2011
- XY503 EGU2012-5565
J.E. Daniell, B. Khazai, F. Wenzel, T. Kunz-Plapp, A. Vervaeck, B. Muehr, and M. Markus
 A discussion of the socio-economic losses and shelter impacts from the Van, Turkey Earthquakes of October and November 2011
- XY504 EGU2012-13905
M. Erdik, M. B. Demircioglu, Y. Kamer, K. Sesetyan, C. Tuzun, and A. C. Zulfikar
 Rapid Earthquake Hazard and Loss Assessment with ELER© Software

NH7.3/AS4.3/BG2.25/ESS1.8/NP4.6/SS5.24 – Spatial and temporal patterns of wildfires: models, theory, and reality (co-organized) – Orals

Convener: M.G. Pereira | Co-Conveners: R. Trigo, A. Camia, M. Penning de Vries, Dr Clarisse, L Boschetti

Room: D

Chairperson: n.n.

- 08:30–08:45 EGU2012-1162
C. D. Vega Orozco, M. Kanevski, J. Golay, M. Tonini, and M. Conedera
 Multifractal analysis of forest fires in complex regions
- 08:45–09:00 EGU2012-2092
M. Kanevski, A. Champendal, C. Vega Orozco, M. Tonini, and M. Conedera
 A new concept of wildland-urban interface based on city clustering algorithm
- 09:00–09:15 EGU2012-6519
 T. Penman, **R. Bradstock**, G. Caccamo, and O. Price
 Developing a probabilistic fire risk model and its application to fire danger systems
- 09:15–09:30 EGU2012-11497
D. Oom, I. Bistinas, A. C. L. Sa, and J.M.C. Pereira
 Continental spatial non-stationarity of fire-human relationship using GWR
- 09:30–09:45 EGU2012-13822
M. Long, A. Ganteaume, M. Jappiot, G. Andrienko, and N. Andrienko
 Analysis of fire causes spatial and temporal distribution in France
- 09:45–10:00 EGU2012-12008
Y. Zhang, D. Obrist, B. Zielinska, and A. Gerler
 Emissions of carbon species, organic polar compounds, potassium, and mercury from prescribed burning activities

COFFEE BREAK

Chairperson: n.n.

- 10:30–10:45 EGU2012-3335
A. Bastos, C. M. Gouveia, R. M. Trigo, and C. C. DaCamara
 Vegetation recovery assessment following large wildfires in the Mediterranean Basin
- 10:45–11:00 EGU2012-13785
T. Brown, C. Kolden, and J. Abatzoglou
 Assessing fuels treatments in the context of climate change
- 11:00–11:15 EGU2012-12648
T. Calheiros, M.G. Pereira, T.J. Calado, C.C. Dacamara, and J.G. Pinto
 Potential effects of regional climate change on rural fires over Europe
- 11:15–11:30 EGU2012-3852
R. Bradstock, M. Boer, T. Penman, and O. Price
 Divergent responses of fire to recent climate change: evidence from bio-regional patterns across south-eastern Australia
- 11:30–11:45 EGU2012-1967
D. Cane, C. Wastl, S. Barbarino, L. Renier, C. Schunk, and A. Menzel
 Evaluation of fire potential in the climatic scenario: an Alpine area perspective

- 11:45–12:00 EGU2012-7340
A. Shvidenko and D. Schepaschenko
 Wildfire in Northern Eurasia and climate change
 Chairperson: n.n.
- 15:30–15:45 EGU2012-3173
I. Csiszar, W. Schroeder, L. Giglio, E. Ellicott, and C.O. Justice
 A comparison of remote sensing of active fires from MODIS and VIIRS
- 15:45–16:00 EGU2012-11107
G. Ruecker, E. Lorenz, A.A. Hoffmann, D. Oertel, and J. Tiemann
 A mission concept for a dedicated Fire Monitoring Constellation of small satellites based on the BIRD heritage
- 16:00–16:15 EGU2012-12485
C. C. DaCamara, R. Libonati, A. Barros, G. Gaspar, and T. J. Calado
 Using MODIS imagery to assign dates to maps of burn scars in Portugal
- 16:15–16:30 EGU2012-8366
r. Paugam, m. Wooster, s. Freitas, s. Gonzi, and p. Palmer
 Parameterization of Fire Injection Height in Large Scale Transport Model
- 16:30–16:45 EGU2012-9558
E. Athanasopoulou, C. Giannakopoulos, H. Vogel, D. Rieger, C. Knote, M. Hatzaki, B. Vogel, and A. Karali
 Fire risk and air pollution assessment during the 2007 wildfire events in Greece using the COSMO-ART atmospheric model
- 16:45–17:00 EGU2012-10521
J.W. Kaiser, A. Benedetti, R. Detmers, A. Heil, J.-J. Morcrette, M.G. Schultz, G.R. van der Werf, M.J. Wooster, and W. Xu
 Assimilation of FRP Observations for Global Fire Emission Estimation in MACC-II

NH7.3/AS4.3/BG2.25/ESSI1.8/NP4.6/SSS5.24 – Spatial and temporal patterns of wildfires: models, theory, and reality (co-organized) – Posters

Convener: M.G. Pereira | Co-Conveners: R. Trigo, A. Camia, M. Penning de Vries, Dr Clarisse, L Boschetti

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY281 EGU2012-14135
 N.J. Gonçalves, **M.G. Pereira**, P. Fernandes, C. Loureiro, C.C. DaCamara, and M.T. Calado
 Landscape-structure metrics influence on fire size distribution in Portugal
- XY282 EGU2012-12208
 R. Costa, **M.G. Pereira**, L. Caramelo, C. Vega Orozco, and M. Kanevski
 Spatio-temporal clustering of wildfires in Portugal
- XY283 EGU2012-779
E. Íñiguez-Remón, D. Badía-Villas, and P. Ibarra-Benlloch
 Spatial and temporal changes in land cover and its relation to the wildfire risk in Montes de Zuera (NE-Spain)
- XY284 EGU2012-12737
Panagiota Papakosta, Florian Klein, Simon König, Stefan Peters, and Daniel Straub
 Linking spatio-temporal data to the Fire Weather Index to estimate the probability of wildfire in the Mediterranean
- XY285 EGU2012-11226
B. Arca, G. Pellizzaro, A. Canu, G.V. Pintus, R. Ferrara, and P. Duce
 An analysis on Wildland Urban Interface in North Sardinia
- XY286 EGU2012-9852
C.M. Gouveia, A. Bastos, R.M. Trigo, and C. DaCamara
 Drought impact on vegetation in pre and post fire events in Iberian Peninsula
- XY287 EGU2012-12172
V. Bacciu, G. Pellizzaro, P. Santoni, B. Arca, A. Ventura, M. Salis, T. Barboni, V. Leroy, D. Cancellieri, E. Leoni, L. Ferrat, Y. Perez, P. Duce, and D. Spano
 Fuel type characterization and potential fire behavior estimation in Sardinia and Corsica islands
- XY288 EGU2012-2419
D. Cane, A. Arpacı, M. Conedera, E. Valse, S. Barbarino, H. Vacik, and G.B. Pezzatti
 Suitability of different Fire Weather Indices for alpine conditions: an extensive evaluation with high resolution data

- XY289 EGU2012-8422
C. Schunk, C. Wastl, M. Leuchner, C. Schuster, and A. Menzel
Forest fire danger indices under extreme meteorological conditions in a complex topography - the situation in the Bavarian Alps in autumn 2011
- XY290 EGU2012-13793
K. Koster, J. Pumpanen, and F. Berninger
Recovery of soil carbon and nitrogen pools following forest fires in eastern Lapland, Finland.
- XY291 EGU2012-10307
A. Ganteaume, M. Jappiot, and C. Lampin
Assessing and ranking the flammability of some ornamental plant species to select firewise plants for landscaping in WUI (SE France).
- XY292 EGU2012-597
E. Shvetsov
The Correlation Analysis of Fire Energy Release and Weather Conditions
- XY293 EGU2012-13648
M. Amraoui, C.C. DaCamara, and S.L. Ermida
An algorithm to detect fire activity using Meteosat: fine tuning and quality assesment
- XY294 EGU2012-3196
I. Csizar, C.O. Justice, E. Prins, W. Schroeder, C. Schmidt, and L. Giglio
Fire Monitoring from the New Generation of US Polar and Geostationary Satellites
- XY295 EGU2012-11870
G. Mazzeo, C. Filizzola, I. Coviello, F. Marchese, R. Corrado, T. Lacava, R. Paciello, N. Pergola, and V. Tramutoli
Performance assessment of a Robust Satellite Techniques (RST-FIRES) for forest fire detection and monitoring
- XY296 EGU2012-1704
S. Veraverbeke and S. Hook
Evaluating spectral indices and spectral mixture analysis for assessing fire severity and adjusting burning efficiency using Landsat data
- XY297 EGU2012-1705
S. Veraverbeke, S. Hook, and G. Hulley
A single date SWIR-MIR index (SMI) for rapid fire severity assessments
- XY298 EGU2012-10622
T. Thonat, C. Crevoisier, A. Chédin, R. Armante, L. Crépeau, and N. A. Scott
Study of biomass burning emissions with Aqua/AIRS and MetOp-A/IASI
- XY299 EGU2012-7916
C. Kontoes, I. Papoutsis, D. Michail, Th. Herekakis, M. Koubarakis, K. Kyzirakos, M. Karpathiotakis, C. Nikolaou, M. Sioutis, G. Garbis, S. Vassos, **I. Keramitsoglou**, M. Kersten, S. Manegold, and H. Pirk
Wildfire monitoring via the integration of remote sensing with innovative information technologies
- XY300 EGU2012-8868
I. Berdufi, O. Jaupaj, M. Marku, M. Deda, E. Fiori, M. D'Andrea, G. Biondi, P. Fioruci, M. Massabò, P. Zorba, and M. Gjonaj
Bulletin of Forest Fire risk in Albania- The experience of the Albania National Centre for forecast and Monitoring of Natural Risks
- XY301 EGU2012-525
V. Rakitin, A. Safronov, L. Yurganov, E. Fokeeva, E. Grechko, and A. Dzhola
CO atmospheric pollution of Moscow area during wild fires in summer 2010, estimates of emissions and their uncertainties
- XY302 EGU2012-1254
N. Ursino and M.C. Rulli
Hydrological minimal model for fire regime assessment in Mediterranean ecosystem
- XY303 EGU2012-7298
O. Stein, J.W. Kaiser, A. Heil, and M.G. Schultz
Model sensitivity to global fire emissions: GFED versus GFAS
- XY304 EGU2012-7945
M.J.M. Penning de Vries, O.N.E. Tuinder, T. Wagner, and M. Fromm
Calculation of smoke plume mass from passive UV satellite measurements by GOME-2 polarization measurement devices
- XY305 EGU2012-10052
M. Salis, B. Arca, A. Ager, C. Fois, V. Bacciu, P. Duce, and D. Spano
Extreme Wildfire Spread and Behaviour: Case Studies from North Sardinia, Italy
- XY306 EGU2012-6855
C.I. Mason, G.J. Sheridan, H.G. Smith, O. Jones, D. Chong, and K. Tolhurst
FIRESTORM: Modelling the water quality risk of wildfire.

- XY307 EGU2012-13343
M. D'Andrea, P. Fiorucci, G. Biondi, and D. Negro
 PROPAGATOR: a synchronous stochastic wildfire propagation model with distributed computation engine
- XY308 EGU2012-11419
J. Mandel, A. K. Kochanski, V. Y. Kondratenko, and J. D. Beezley
 Coupled atmosphere-fire modeling with data assimilation for 2007 Santa Ana fires
- XY309 EGU2012-4307
V. Khan
 Long-range forecasting of forest fire danger index based on PLAV model outputs

NH7.5 – Fire information needs for global modelling of fire effects – Posters

Convener: E. Chuvieco

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Emilio Chuvieco

- XY310 EGU2012-345
K. P. Guenther, T. Krauss, R. Richter, R. Mueller, B. Fichtelmann, E. Borg, M. Bachmann, M. Wurm, V. Gsteiger, and A. Mueller
 Operational pre-processing of MERIS, (A)ATSR and VEGETATION data for the ESA-CCI project
 "Fire-Disturbance"
- XY311 EGU2012-1364
E. Chuvieco
 Proposal for a research agenda to meet global fire information needs
- XY312 EGU2012-2492
P. Oliva, T. Calado, and F. Gonzalez
 MERIS burned area algorithm in the framework of the ESA Fire CCI Project
- XY313 EGU2012-3427
 A. Bradley, **K. Tansey**, and E. Chuvieco
 Multi-sensor merging techniques for improving burned area estimates
- XY314 EGU2012-4295
F. Mouillot, J. Ruffault, and F. Moebius
 Modelling carbon emissions in mediterranean fire-prone ecosystems: errors in Translating across scales from global to landscape
- XY315 EGU2012-4451
 C. Yue, P. Cadule, P. Ciais, N. Viovy, V. Bellassen, and **S. Luyssaert**
 Simulation of boreal forest carbon dynamics after stand-replacing fire disturbance: validation and model evaluation of a global vegetation model
- XY316 EGU2012-5888
L.G. Gutiérrez Caballero, M. Fernandez Cortizo, J. Pacios Martinez, and F. Ibañez Casado
 System Design for Data Processing in the Very Long Term
- XY317 EGU2012-9452
F. Oehler, S. Oliveira, J. I. Barredo, A. Camia, J. San Miguel Ayanz, D. Pettenella, and R. Mavsar
 Assessing European wild fire vulnerability
- XY318 EGU2012-10598
J. M.C. Pereira, B.W.C. Mota, M.L. Campagnolo, and R. Killick
 An algorithm for satellite-based burned area mapping using change point detection and Markov random fields
- XY319 EGU2012-12708
S. Hantson, M. Padilla, R. Cardoso, D. Corti, and E. Chuvieco
 A global comparison between MODIS hotspot and high resolution burned area data

NH8.6 – Sinkholes: from susceptibility to risk evaluation and mapping – Orals

Convener: M. Parise | Co-Conveners: G. G.R. IOVINE, S. Nisio

Room: 1

Chairperson: Mario Parise

- 15:30–15:45 EGU2012-13033
S.-E. Lauritzen, Ø. Hammer, W. Wheeler, T. Redfield, M. Blanco, L. Rosales Lagarde, and B. Jamtveit
 Morphology and mechanics of large collapses: Sotano de las Golondrinas, Mexico
- 15:45–16:00 EGU2012-3360
D. Closson, N. Abou Karaki, N. Milisavljevic, P. Pasquali, F. Holecz, and A. Bouaraba
 Hydrogeological perturbations along the Dead Sea coast revealed by submarine sinkholes, Lisan and Ghor al Haditha, Jordan

- 16:00–16:15 EGU2012-2407
G. Kovacic and N. Ravbar
 Destruction of dolines: the examples from Slovene karst
- 16:15–16:30 EGU2012-5226
J. Vouillamoz, P.-Y. Jeannin, L. Kopp, and R. Chantry
 Inception horizon concept as a basis for sinkhole hazard mapping
- 16:30–16:45 EGU2012-6624
M. Trappe, T. Heckmann, S. Mehlhorn, K. Umstädter, H. Miedaner, and M. Becht
 Cover-collapse sinkholes of the Franconian Alb / Germany
- 16:45–17:00 EGU2012-3164
C.M. Krawczyk, U. Polom, and T. Dahm
 Imaging of urban sinkhole structures - combination of P-wave and shear-wave reflection seismic profiling in the metropolitan region of Hamburg

NH8.6 – Sinkholes: from susceptibility to risk evaluation and mapping – Posters

Convener: M. Parise | Co-Conveners: G. G.R. IOVINE, S. Nisio

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Mario Parise

- XY320 EGU2012-340
M. Pepe and M. Parise
 Structural control in sinkhole development and speleogenesis: a case study from the High Murge karst landscape (Apulia, Italy)
- XY321 EGU2012-6879
G. Ferrini, A. Moretti, C. De Rose, E. Stagnini, and M. Serafini
 Relationships between sinkholes areal distribution and main tectonic alignments in Abruzzo (Central Italy)
- XY322 EGU2012-12559
D. Mucke
 Genetic variety of sinkholes and their reconnaissance and classification for the derivation of hazards and to forecast of collapses
- XY323 EGU2012-7132
M. Garasic
 Crveno jezero - the biggest sinkhole in Dinaric Karst (Croatia)
- XY324 EGU2012-9698
C. Romey, P. Rochette, C. Vella, B. Arfib, C. Champollion, P. Dussouillez, D. Hermitte, and J-C. Parisot
 A Quaternary paleolake in a sinkhole at Cassis (SE France) : a geomorphology and geophysical study
- XY325 EGU2012-4066
A. Basso, E. Bruno, M. Parise, and M. Pepe
 Morphometric analysis of sinkholes in a karst coastal area
- XY326 EGU2012-11240
 F. Canora, F. Caporale, A. D'Angella, D. Fidelibus, F. Gutierrez, R. Pellicani, and **G. Spilotro**
 Sinkhole hazard assessment in Lesina Marina area (Apulia, Italy)
- XY327 EGU2012-2789
 G. G.R. Iovine, **M. Parise**, T. Caloiero, G. Lanza, and S. Suriano
 The Sinkholes at "Piano dell'Acqua"
- XY328 EGU2012-7774
S. Margiotta, S. Negri, and F. Mazzone
 High resolution integrated geological and geophysical surveys for the detection of cavities in coastal karst areas
- XY329 EGU2012-12467
J. Rey, J. Martínez, C. Hidalgo, and J. Dueñas
 Application of electrical resistivity tomography techniques for mapping man-made sinkholes
- XY330 EGU2012-7693
 S. Margiotta, S. Negri, and **M. Parise**
 Integration of geological, geomorphological and geophysical methods in the study of sinkholes
- XY331 EGU2012-2952
P. Nicolet, M. Choffet, M. Jaboyedoff, B. Lauraux, J.-L. Lance, and E. Champod
 Sinkhole risk analysis from the point of view of a public building insurance, the case of Vaud County (Switzerland)
- XY332 EGU2012-7642
P. Lollino, S. Margiotta, and M. Parise
 Geological and numerical modelling of sinkholes induced by instability of man-made underground caves

- XY333 EGU2012-1414
D. Flum and A. Roduner
 New method for bridging sinkholes using flexible steel components as reinforcement
- XY334 EGU2012-6038
F. La Vigna, P. Teoli, R. Mazza, G. Leoni, and G. Capelli
 Regional sinkhole susceptibility maps: The Latium Region case (central Italy)
- XY335 EGU2012-6547
A. Mureddu and A.S. Corda
 Urban areas of Carbonia (Sardinia, Italy): anthropogenic and natural sinkhole
- XY336 EGU2012-4733
 M. Bonamini, C. Di Maggio, P. Lollino, G. Madonia, M. Parise, and **M. Vattano**
 Anthropogenic sinkholes in the Marsala area (western Sicily) linked to underground quarries

SSS5.20 – Understanding Fire Phenomena in the Earth System Using Interdisciplinary Approaches (co-listed) – Orals

Convener: C. M. Belcher | Co-Conveners: G. Rein, N. Tessler, C. Chafer, A. C. Scott

Room: 22

Chairperson: Claire M. Belcher, Guillermo Rein, Andrew C. Scott

- 15:30–15:45 EGU2012-5864
E. Planas and E. Pastor
 Fuel, wildfire danger and behaviour modelling: state of the art and medium-term prospects
- 15:45–16:00 EGU2012-9757
S. Turquety, A. Anav, L. Menut, P. Drobinski, P. Messina, B. Bessagnet, and S. Stromatas
 Fire emissions in the Euro-Mediterranean area: variability and impact on air quality
- 16:00–16:15 EGU2012-129
G. Rein
 Smouldering Fires in the Earth System
- 16:15–16:30 EGU2012-8118
C. M. Belcher
 Experimental Approaches to Understanding Ancient Ecosystems Flammability
- 16:30–16:45 EGU2012-1028
V.A Hudspith, A.C Scott, and M.E Collinson
 Temporal variability in charcoal distribution in Permian coal: Implications for interpreting palaeowildfire history
- 16:45–17:00 EGU2012-12930
T. M. Lenton
 Fires and the rise and regulation of atmospheric oxygen

SSS5.20 – Understanding Fire Phenomena in the Earth System Using Interdisciplinary Approaches (co-listed) –

Posters

Convener: C. M. Belcher | Co-Conveners: G. Rein, N. Tessler, C. Chafer, A. C. Scott

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Claire M. Belcher, Guillermo Rein, Andrew C. Scott

- XY583 EGU2012-14132
R. Hadden and G Rein
 Laboratory study of smouldering peat fires: dynamics and emissions
- XY584 EGU2012-14130
E Pastor, D Tarragó, and E Planas
 New tendencies in wildland fire simulation for understanding fire phenomena: An overview of the WFDS system capabilities in Mediterranean ecosystems
- XY585 EGU2012-12813
 J.C. Thomas, **A. Simeoni**, F. Colella, and J.L. Torero
 Piloted Ignition Regimes of Wildland Fuel Beds
- XY586 EGU2012-5906
S. Pueyo
 Complex systems approach to fire dynamics and climate change impacts
- XY587 EGU2012-7762
S. Gonzi, P. I. Palmer, L. Feng, R. Paugam, and M. Wooster
 Using fire radiative power (FRP) observations to describe the vertical transport of wildfire emissions: impacts on atmospheric pollutant transport and inferred flux estimates

- XY588 EGU2012-3332
A. Bastos, C. M. Gouveia, C. C. DaCamara, and R. M. Trigo
 Post-fire vegetation behaviour in large burnt scars from 2005 fire season in Spain
- XY589 EGU2012-12537
PL Ascough, E. Tilston, and M. Garnett
 Assessing the mineralisation of charcoal carbon in temperate soils
- XY590 EGU2012-2296
J. Heath, C. Chafer, T. Bishop, and F. Van Ogtrop
 Ten years post-wildfire recovery and health of Eucalypt forests and woodland in the Sydney Basin, Australia, using remotely sensed vegetation indices
- XY591 EGU2012-3778
E.U. Hobbey, G.R. Willgoose, S. Frisia, and G. Jacobsen
 Chemical changes in soil charcoal of differing ages inferred from DRIFT spectra
- XY592 EGU2012-4618
A. C. Scott, M. Hardiman, N. Pinter, and R.S. Anderson
 Charcoal as evidence of fire regimes in the Pleistocene of the California Islands
- XY593 EGU2012-11366
 B.I. Magi, **S. Rabin**, E. Shevliakova, and S. Pacala
 A data-based method to determine the regional impact of agriculture on fire seasonality
- XY594 EGU2012-12152
A. Simeoni
 Experimental understanding of wildland fires
- XY595 EGU2012-13092
A. C. Scott and I.J. Glasspool
 The uses of charcoal to reconstruct fire history in deep time.

SSS6.2 – Eco-engineering mitigations against natural hazards: Biological and Geophysical contributions to sustainable soil bioengineering in a changing world (co-listed) – Orals

Convener: H. P. Rauch | Co-Conveners: F. Rey, F. Preti, F. Graf, F. Ozcep

Room: 3

Chairperson: F. Graf, F. Ozcep

- 15:30–15:45 EGU2012-14122
H.B. Msita, D.N. Kimaro, P.W. Mtakwa, B.M. Msanya, S. Dondyene, J. Poesen, and J. Deckers
 Effectiveness Of Miraba an Indigenous Soil and Water Conservation Measures On Reducing Runoff And Soil Loss In Arable Land Of Western Usambara Mountains
- 15:45–16:00 EGU2012-8324
 D. Ilangovan and **L. Fernandes**
 Simple and Effective Undisturbed Core sampling in Mudflats
- 16:00–16:15 EGU2012-1864
A. Erktan, B. Pianu, P. Lucisine, and F. Rey
 Role of the morphology of Salix tillers barriers in marly sediment trapping efficiency in gully floor under ecological restoration: a flume experiment
- 16:15–16:30 EGU2012-1422
J. Eisenmann
 Wave basin model tests of technical-biological bank protection
- 16:30–16:45 EGU2012-14175
M. Schwarz
 Influence of root and root channels distributions on the lateral subsurface flow of homogeneous soils
- 16:45–17:00 EGU2012-11888
W. Lammeranner
 Root Development of Salix purpurea L. on Heavily Compacted Levee Soils

SSS6.2 – Eco-engineering mitigations against natural hazards: Biological and Geophysical contributions to sustainable soil bioengineering in a changing world (co-listed) – Posters

Convener: H. P. Rauch | Co-Conveners: F. Rey, F. Preti, F. Graf, F. Ozcep

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: F. Preti, Freddy Rey

- XY596 EGU2012-10799
M. von der Thannen, C. Weissteiner, H.P. Rauch, N. Tilch, and B. Kohl
 The Influence of vegetation on processes of shallow soil erosion in subalpine catchment areas in Western Austria

- XY597 EGU2012-1062
F. Ozcep, S. Karabulut, and T. Ozcep
 On comparisons between Shear Wave Velocities and Soil-Water Content
- XY598 EGU2012-1067
S. Karabulut, N. ?mre, S. Dalgic, and F. Ozcep
 Geotechnical Investigation of Landslides in Gulpinar Region
- XY599 EGU2012-4394
Ch. Rickli, S. Burger, H. Herranahof, T. Michel, A. Moser, and A. Tröger
 A new inclinable shear apparatus for large sample testing: design and perspectives
- XY600 EGU2012-4456
F. Graf and Ch. Gromke
 Wind erosion in the alpine zone - a case study at Latschuefurgga (Davos, Switzerland)
- XY601 EGU2012-4902
H.-H. Hsu
 A Preliminary Design of a Calibration Chamber for Evaluating the Stability of Unsaturated Soil Slope
- XY602 EGU2012-6581
 P. Borja, **V. Vanacker**, D. Alvarado, and G. Govers
 Restoration of badlands through applying bio-engineering techniques in active gully systems: Evidence from the Ecuadorian Andes
- XY603 EGU2012-6684
K.-L. Wang, C.-C. Ho, J.-Y. Lin, and H.-S. Tsao
 Sediment Transport and Control of Keelung River - From Watershed Management Aspect
- XY604 EGU2012-6917
F. Ali, N. Osman, R. Hashim, and A. Khalilnejad
 Numerical and Experimental Investigation on Root Anchorage
- XY605 EGU2012-7879
G. Holzapfel, P. Weihs, L. Stockreiter, and E. Hoffmann
 Determination of the Annual Shading Potential of Salix Purpurea Coppice using Hemispherical Photographs
- XY606 EGU2012-9616
M. Obriejetan, F. Florineth, and H.P. Rauch
 Erosion Control and Recultivation Measures at a Headrace Channel of a Hydroelectric Power Plant using Different Combined Soil Bioengineering Techniques
- XY607 EGU2012-10739
S. Tron, A. Dani, F. Laio, F. Preti, and L. Ridolfi
 Root profile modeling as a link between ecohydrology and slope stability
- XY608 EGU2012-11431
R. Matu?a
 Hydro-geophysics in highway monitoring - new approach to jointing multimodal MASW and refraction surveying.

Tuesday, 24 April

GI2.5 – Preparatory activities for the scientific utilisation of the GMES Sentinel satellites constellations including Cal/Val activities of their optical instruments. (co-listed) – Posters

Convener: M. Berger | Co-Conveners: J. Aschbacher, H. Mortimer, B. Bojkov

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Hugh Mortimer, Michael Berger, Josef Aschbacher

- A97 EGU2012-8674
A. H. Mortimer and D. Smith
The Spectral Response Recharacterisation of the Advanced Along Track Scanning Radiometer (AATSR) Using a High Resolution Fourier Transform Spectrometer.
- A98 EGU2012-11166
K. Y. Choi and E. J. Milton
Significance of Radiometric Calibration Accuracy in Multi-Scale Validation between Ground, Airborne and Spaceborne Platforms
- A99 EGU2012-589
Y.J. Li, Y. Xue, C. Li, and L.K. Yang
LABITS: An Algorithm for Land Aerosol and Bidirectional Reflectance Inversion by Time Series Technique and its Applications on NOAA AVHRR Data
- A100 EGU2012-1662
H. Nett, P. Ingmann, and K. McMullan
ESA's Sentinel-5 Precursor Mission: a GMES Mission for Global Observations of Atmospheric Composition
- A101 EGU2012-2335
F. Olschewski, C. Rolf, P. Steffens, A. Kleinert, C. Piesch, A. Ebersoldt, C. Monte, B. Gutschwager, J. Hollandt, P. Preusse, F. Friedl-Vallon, and R. Koppmann
Large-Area Radiation Sources for the In-flight Calibration of the GLORIA Interferometer
- A102 EGU2012-4156
C.-R. Li, L.-L. Tang, H.-B. Niu, X.-N. Zhou, Z.-Y. Liu, L.-L. Ma, and Y.-S. Zhou
Potential of Sentinel Satellites for Schistosomiasis Monitoring
- A103 EGU2012-4194
V.R. Gavrilov, A. A. Katysheva, B.B. Khlevnoy, B. E. Lisyansky, S.P. Morozova, A.S. Panfilov, V.I. Sapritsky, and M.V. Solodilov
Uncertainty evaluation of optical instruments radiometric calibration using integrating sphere
- A104 EGU2012-5038
J. Verrelst, J.P. Rivera, L. Alonso, L. Guanter, J. Delegido, and J. Moreno
Evaluating Machine learning regression algorithms for operational retrieval of biophysical parameters: opportunities for Sentinel-2 and -3
- A105 EGU2012-6067
K. Dabrowska-Zielinska, M. Budzynska, M. Tomaszewska, M. Bartold, and K. Turlej
ENVISAT.MERIS spectral bands and ENVISAT ASAR - discussion on applications of Sentinel 1 and 2 for agriculture in Poland.
- A106 EGU2012-6137
R. Roebeling, J. Schulz, T. Hewison, and B. Theodore
Inter-calibration of METEOSAT IR and WV channels using HIRS
- A107 EGU2012-7265
S.C. Wagner, T. Hewison, and R.A. Roebeling
A Review of the Strategy for the Meteosat Solar Band Calibration
- A108 EGU2012-7376
S.C. Wagner and T. Hewison
Implementation of an Inter-Calibration Method between Meteosat SEVIRI and MODIS Solar Bands using Deep Convective Cloud Targets
- A109 EGU2012-7439
A. Regan, P. Silvestrin, D. Fernandez, N. Leveque, and S. Eves
Earth Observation Convoy: Synergetic Observations with Satellites Flying in Formation with European Operational Missions - Possibilities for New Science
- A110 EGU2012-9317
H. Rebhan, C. Donlon, B. Berruti, A. Boungiorno, P. Femenias, P. Goryl, U. Klein, B. Seitz, J. Nieke, and C. Mavrocordatos
Sentinel-3 Mission Overview and Status
- A111 EGU2012-10160
J. Balodis, I. Janpaule, A. Rubans, A. Zarinjsh, M. Abele, A. Ubelis, and M. Cekule
Eventual Participation in GMES of Institute of Geodesy and Geoinformation

- A112 EGU2012-11042
D. Odermatt, J. Pitarch, J. Carpenter, F. Pomati, M. Kawka, A. Wuest, and M. Schaepman
Matching stratified plankton blooms with satellite data estimated chl-a
- A113 EGU2012-11278
S. Salvi, F. Sarti, A. Mouratidis, A. Coletta, and S. Zoffoli
InSAR monitoring for seismic risk management: the Sentinel 1 contribution
- A114 EGU2012-11523
C. Lamarche, M. Tomaszewska, K. Dabrowska-Zielinska, and P. Defourny
Object-based automatic change detection in forested areas of Poland between 2000 and 2006 using NDVI times series at moderate resolution.
- A115 EGU2012-12740
P. Féménias, H. Rebhan, C. Donlon, A. Buongiorno, and C. Mavrocordatos
Sentinel-3 Surface Topography Mission: Payload, Data Products and Cal/Val Preparation
- A116 EGU2012-13224
H.C. Winsemius, G.R. Brakenridge, R. Westerhoff, J. Huizinga, N. Villars, and C. Bishop
Flood mapping by combining the strengths of optical and Sentinel active radar remote sensing

HS2.4 – Hydrology and remote sensing for monitoring, modelling and improve the management of urban and rural water systems (co-listed) – Orals

Convener: G. Di Baldassarre | Co-Conveners: J. Neal, M. Maglionico, G. J.-P. Schumann, F. Pappenberger, P. Matgen

Room: 34

Chairperson: Giuliano Di Baldassarre, Jeff Neal

- 13:30–13:45 EGU2012-1974
D.C. Mason, G.J.-P. Schumann, J.C. Neal, J. Garcia-Pintado, and P.D. Bates
Automatic selection of flood water levels from high resolution Synthetic Aperture Radar images for assimilation into hydraulic models
- 13:45–14:00 EGU2012-8474
T. Persson and I. Westerberg
Integrated monitoring and modelling for flood management in an urban Swedish catchment
- 14:00–14:15 EGU2012-11254
L. Giustarini, R. Hostache, P. Matgen, G. Schumann, P.D. Bates, and D.C. Mason
A change detection approach to flood mapping in urban areas using very high-resolution microwave remote sensing imagery
- 14:15–14:30 EGU2012-1267
F. Zhou and G. Chen
Adaptive moving finite volume scheme for flood inundation modeling under dry and complex topography
- 14:30–14:45 EGU2012-12579
A. Palla, F. Franza, I. Gnecco, G.T. Aronica, and L.G. Lanza
Pluvial flooding and efficiency of urban drainage
- 14:45–15:00 EGU2012-5765
M.H. Spekkers, J.A.E. ten Veldhuis, M. Kok, and F.H.L.R. Clemens
Relationships between rainfall data and water-related damage data for a case study in the Netherlands
- Chairperson: Patrick Matgen, Jeff Neal
- 15:30–15:45 EGU2012-6699
A. Asadzadeh Jarihani and J.N. Callow
Assessing Remote Topographic Datasets: Comparing ASTER GDEM, SRTM and the Role of Icesat/GLAS Transect Data with Survey Control Points for Floodplain Modelling
- 15:45–16:00 EGU2012-8048
D. Schaffrath, S.H. Vetter, and C. Bernhofer
Modelling spatial evapotranspiration with BROOK90, MODIS surface temperature and leaf area index for managed grasslands in Inner Mongolia, China
- 16:00–16:15 EGU2012-2299
L. Brocca, F. Melone, T. Moramarco, G. Zucco, and W. Wagner
Soil moisture assimilation into rainfall-runoff modelling: which is the impact of the model structure on runoff predictions?
- 16:15–16:30 EGU2012-9251
P. Knoefel, U. Falk, C. Conrad, and S. Dech
Comparative analysis and validation of remotely sensed estimation of actual evapotranspiration in cotton ecosystems of Middle Asia
- 16:30–16:45 EGU2012-12514
C. Corbari, G. Ravazzani, M. Mancini, J. Li, and B. Su
Internal calibration of a distributed hydrological model using satellite data of land surface temperature similarly to ground discharge measurements

16:45–17:00 EGU2012-12618

T. Skaugen and F. Randen

Updating the snow reservoir in hydrological models from satellite derived snow covered area

HS2.4 – Hydrology and remote sensing for monitoring, modelling and improve the management of urban and rural water systems (co-listed) – Posters

Convener: G. Di Baldassarre | Co-Conveners: J. Neal, M. Maglionico, G. J.-P. Schumann, F Pappenberger, P. Matgen

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Marco Maglionico, Giuliano Di Baldassarre

A173 EGU2012-33

E.A. Tzanou and **G.S. Vergos**

Determination of the hydrological properties of a small-scale catchment area in Northern Greece from ASTER and SRTM DEMs and accuracy assessment with a local DTM

A174 EGU2012-483

X.H. Xiang, X.L. Wu, and C.H. Wang

River-Network Numerical Model Base on Flux Difference Split Method

A175 EGU2012-1061

R. Cherif, V. Simonneaux, V. Rivalland, S. Gascoin, M. Le Page, and E. Ceschia

Distributed modelling of evapotranspiration using high-resolution NDVI maps over cropland in South-West France

A176 EGU2012-2254

O. Hoes, G. de Haan, G. Stelling, E. van Leeuwen, A. van Dam, O. Pleumeekers, and W. Schuurmans

Fast 3D stereo flood simulations in urban areas

A177 EGU2012-2345

S. Segni Abawallo, **L. Brandimarte**, and M. Maglionico

Urban flood management: on the optimal design of off-line detention basins

A178 EGU2012-3914

Y.J. Lin, K.C. Ma, Y.C. Tan, T.J. Chang, and **J.S. Lai**

Koaping River Flood Simulation due to Climate Change

A179 EGU2012-4016

S. A. Arévalo and J. Schmidt

Modelling muddy floods in urban areas

A180 EGU2012-4158

M. Brilly, S. Rusjan, and A. Vidmar

Flood Problematic of the City of Ljubljana and the September 2010 Flood

A181 EGU2012-6712

M. Trudel, R. Leconte, and C. Paniconi

Assimilation of streamflow and soil moisture observations in a distributed physically-based hydrological model

A182 EGU2012-7672

M. N. Papa, F. Ciervo, y. Koussoubé, G. Di Martino, A. Iodice, A. Natale, D. Riccio, G. Ruello, and I. Zinno

Potential of remote sensing data for improving water resources management in semi-arid regions: a case study in Burkina Faso

A183 EGU2012-8365

P. Bauer-Gottwein and C.I.B. Michailovsky

Radar altimetry assimilation in catchment-scale hydrological models

A184 EGU2012-8884

J. Jarosław, S. Szporak, B. Verbeiren, and **O. Batelaan**

Coping with vegetation dynamics in low-land wetlands - Integration of RS derived interception into the rainfall-runoff model WetSpa

A185 EGU2012-9081

A. Piliksere, J. Seņīkovičs, J. Virbulis, U. Bethers, P. Bethers, and A. Valainis

Modeling urban flood risk territories for Riga city

A186 EGU2012-9739

T. Törnros and L. Menzel

The Leaf Area Index as a function of precipitation within a hydrological model

A187 EGU2012-10031

K. Yan, G. Di Baldassarre, L. Giustarini, and D.P. Solomatine

Flood Inundation Modelling Under Uncertainty Using Globally and Freely Available Remote Sensing Data

A188 EGU2012-10392

T. Berezowski, J. Chormanski, O. Batelaan, F. Canters, and T. Van de Voorde

Quantifying land-cover proportions for urban runoff prediction. The advantage of distributed remote sensing techniques.

- A189 EGU2012-10871
M.M. Mukolwe, G. Di Baldassarre, T.A. Bogaard, J-P. Malet, and D.P. Solomatine
Probabilistic Flood Mapping and Visualization Issues: Application to the River Ubaye, Barcelonnette (France)
- A190 EGU2012-12160
V. Iacobellis, A. Gioia, P. Milella, G. Satalino, A. Balenzano, and F. Mattia
Inter-comparison of hydrological model simulations with dense time series of SAR-derived soil moisture maps
- A191 EGU2012-12407
E. Ridolfi, K. Yan, L. Alfonso, G. Di Baldassarre, F. Napolitano, F. Russo, and P. D. Bates
Optimization of floodplain monitoring sensors through an entropy approach
- A192 EGU2012-12796
A. Giangola-Murzyn, A. Gires, J. Richard, I. Tchiguirinskaia, and D. Schertzer
A multi module physically based model for the evaluation of the effect of the land use changes
- A193 EGU2012-12980
P. Kalicz, M. Kucsara, Z. Gribovszki, M. Erős, and P. Csáfordi
Monitoring and modeling of runoff from a natural and an urbanized part of a small stream catchment
- A194 EGU2012-13110
I.M. Hartanto, S.J. van Andel, A.H. Lobbrecht, A. van Griensven, and D.P. Solomatine
Integrating earth observation data into hydrological modeling and water management

HS5.9 – Hydrological, ecological, geomorphic and economic implications of Mountain Resort Development (co-listed) – Orals

Convener: C. de Jong | Co-Conveners: B. Wemple

Room: 39

Chairperson: C. de Jong, B. Wemple

- 10:30–10:45 EGU2012-12589
B. McGlynn, K. Gardner, and L. Marshall
Quantifying watershed sensitivity to spatially variable N loading from mountain resort development
- 10:45–11:00 EGU2012-14025
S. Gaucherand and I. Mauz
Winter Tourism and mountain wetland management and restoration
- 11:00–11:15 EGU2012-13938
G. David
Effects of mountain resort development on stream geomorphic function in the White River National Forest, Colorado, USA
- 11:15–11:30 EGU2012-9417
R Ristic, B. Radic, N. Vasiljevic, Z. Nikic, and I. Malusevic
Erosion Processes, Sediment Transport and Hydrological Responses Due to Land Use Changes in Serbian Ski Resorts
- 11:30–11:45 EGU2012-14085
A.L. Shnyparkov, Y.G. Seliverstov, **S.A. Sokratov**, and K.P. Koltermann
Change in snow avalanche and debris flow hazards in the region of Krasnaya Polyana as the result of anthropogenic activity
- 11:45–12:00 EGU2012-11398
C. Gonseth
The economic aspects of artificial snow production in the perspective of climate change

HS5.9 – Hydrological, ecological, geomorphic and economic implications of Mountain Resort Development (co-listed) – Posters

Convener: C. de Jong | Co-Conveners: B. Wemple

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: B. Wemple, C. de Jong

- A306 EGU2012-12889
P. Allamano, P. Claps, and D. Poggi
Reproducing snow making strategies with deterministic modeling and image-based validation
- A307 EGU2012-3754
M. Bonriposi and E. Reynard
Water use demand in the Crans-Montana-Sierre region (Switzerland)
- A308 EGU2012-3761
E. Magnier and E. Reynard
Artificial snowmaking and potential water conflicts in mountain resorts. The case of Avoriaz (Haute-Savoie, France)

- A309 EGU2012-14027
M. Breiling and S Sokratov
Water demand for ski resort development in the Austrian Alps: an Overview
- A310 EGU2012-12979
T. Covino, B. McGlynn, R. McNamarra, and K. Gardner
In-stream nutrient uptake kinetics along stream size and development gradients in a rapidly developing mountain resort watershed
- A311 EGU2012-13485
J. Shanley and **B. Wemple**
Effects of mountain resort development - a case study in Vermont USA
- A312 EGU2012-13763
A. del Peral and B. Wemple
Evaluating the effects of mountain resort development on snowmelt and runoff production: a case study from northern New England, USA
- A313 EGU2012-14024
B Radi?, R Risti?, N Vasiljevi?, Z Niki?, J Beloica, and I Maluševi?
Multi-level landscape degradation due to tourist-oriented land use changes in Serbian mountainous regions
- A314 EGU2012-655
I. Blinova and A. Bredikhin
Assessment of geomorphic risks and attractiveness to recreational systems: a case of Nalychevo Nature Park (Kamchatka, Russia).
- A315 EGU2012-12937
C. de Jong
Natural hazards in the Alps triggered by ski slope engineering and artificial snow production
- A316 EGU2012-14186
H.P. Rauch, S. Schuler, and M. Oberhammer
Monitoring of performance of greening techniques on skiing runs at the skiing region of Montafon/Vorarlberg
- A317 EGU2012-14424
R Imhof
Tourism and Water: Themes of the Alpine Convention
- A318 EGU2012-2694
S. Piccione, **E. Comino**, M. Rosso, and I. Chouquet
Hydrological, geomorphological and ecological river characterization: PELLIDRAC (Alcotra Project)

HS4.3/AS1.18/NH1.2 – Ensemble hydro-meteorological forecasting for improved risk management: across scales and applications (co-organized) – Orals

Convener: M.-H. Ramos | Co-Conveners: J. Thielen, F Pappenberger, J.D. Brown, S. J. van Andel, Y. HE, G. Mascaro

Room: 36

Chairperson: Maria-Helena Ramos

- 13:30–13:45 EGU2012-1459
T.C. Pagano
Operational Ensemble River Forecasting in the United States and Australia: Practices and Challenges
- 13:45–14:00 EGU2012-3596
W. Collischonn, A. Meller, P. L. S. Dias, and D. S. Moreira
Hindcast experiments of ensemble streamflow forecasting for the Paraopeba river (Brazil)
- 14:00–14:15 EGU2012-2476
P. Horton, C. Obled, and M. Jaboyedoff
Real-time precipitation forecasting in the Swiss Alps by means of the analogue method
- 14:15–14:30 EGU2012-11909
T. Mathevet, L. Moulin, J. Gailhard, R. Garçon, P. Bernard, M. Le Lay, I. Zalachori, and J. Chardon
A one year experience of an operational streamflow ensemble forecasting chain taking into account human expertise
- 14:30–14:45 EGU2012-8002
N. Rebora, F. Silvestro, and L. Ferraris
Predicting flash flood in small basins with a probabilistic multicatchment tool
- 14:45–15:00 EGU2012-12953
S.J. van Andel, **F. Pappenberger**, M.H. Ramos, and J. Thielen
Do probabilistic forecasts lead to better decisions? Try it yourself!
- Chairperson: Yi He
- 15:30–15:45 EGU2012-8935
M. Teasdale, **J. Gaudet**, and L. Perreault
Statistical Properties and Quality of some Operational Inflow Forecasts at Hydro-Québec over Different Temporal Scales

- 15:45–16:00 EGU2012-13607
K. Foster, J. Olsson, C. Uvo, W. Yang, and J. Söderling
 A comparison of different approaches for forecasting spring floods in Sweden
- 16:00–16:15 EGU2012-3993
P. Burek, L. Alfieri, J. Thielen-del Pozo, D. Muraro, F. Pappenberger, and B. Krzeminsk
 Looking at the big scale - Global Flood Forecasting
- 16:15–16:30 EGU2012-13021
H. Kim, B. Kim, Z. Liu, D. Yamazaki, B. Sanders, T. Oki, and J. Famiglietti
 Boundary Condition Transfer from Global Atmospheric Model to Local Flood Inundation Model
- 16:30–16:45 EGU2012-6677
D. Brochero, F. Anctil, and C. Gagné
 Comparison of three methods for the optimal allocation of hydrological model participation in an Ensemble Prediction System
- 16:45–17:00 EGU2012-11181
S. J. van Andel, J.D. Brown, M.H. Ramos, A. Weerts, J. Thielen, and J.C. Schaake
 HEPEX post-processing intercomparison experiment

HS4.3/AS1.18/NH1.2 – Ensemble hydro-meteorological forecasting for improved risk management: across scales and applications (co-organized) – Posters

Convener: M.-H. Ramos | Co-Conveners: J. Thielen, F Pappenberger, J.D. Brown, S. J. van Andel, Y. HE, G. Mascaro

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Giuseppe Mascaro

- A243 EGU2012-528
S. Liguori and M.A. Rico-Ramirez
 Probabilistic forecasts based on radar rainfall uncertainty
- A244 EGU2012-8487
T.-H. Kang, K.-T. Lee, and Y.-O. Kim
 Characteristics of Short-Range Probabilistic Flood Prediction in Korea
- A245 EGU2012-4721
P.J. Smith, K. Beven, A. Marchandise, and F. Pappenberger
 Forecasting future water levels to aid in flash flood risk management
- A246 EGU2012-5274
N. Addor, S. Jaun, F. Fundel, and M. Zappa
 An operational hydrological ensemble prediction system for the city of Zurich (Switzerland): assessing the added value of probabilistic forecasts
- A247 EGU2012-2985
F. Rousset-Regimbeau, E. Martin, G. Thirel, F. Habets, M. Coustau, S. Roquelaure, C. De Saint Aubin, and C. Ardilouze
 The Operational Hydro-meteorological Ensemble Prediction System at Meteo-France and its representation interface for the French Service for Flood Prediction (SCHAPI) : description and undergoing developments.
- A248 EGU2012-9565
P. Laiolo, S. Gabellani, N. Rebora, R. Rudari, L. Ferraris, S. Ratto, and H. Stevenin
 Verification of a probabilistic flood forecasting system for an Alpine Region of northern Italy
- A249 EGU2012-10327
G. Smiatek, H. Kunstmann, and J. Werhahn
 Performance of a coupled lagged ensemble weather and river runoff prediction model system for the Alpine Ammer River catchment
- A250 EGU2012-10077
 N. Guyennon, **E. Romano**, I. Portoghesi, F. Salerno, S. Calmanti, A.B. Petrangeli, E. Bruno, G. Tartari, and D. Copetti
 Comparing dynamical, stochastic, and combined downscaling approaches. Lessons from a case study in the Mediterranean
- A251 EGU2012-1712
T. Y. Gan and A. Gobena
 Incorporation of seasonal climate forecasts in the ensemble streamflow prediction system
- A252 EGU2012-10385
A. S. Jarman and L. A. Smith
 Distinguishing between skill and value in hurricane forecasting
- A253 EGU2012-3724
 DY Manful, **Y He**, J-F Exbrayat, F Pappenberger, H Cloke, L Breuer, NR Viney, and H-G Frede
 Development of a novel Nutrient Prediction System (NPS) for a perennial river in a semi-arid region

- A254 EGU2012-3909
Q. Ma, K.C. Wang, and Z.H. Xie
A Study on Ensemble Forecasting of Soil Moisture Based on TIGGE
- A255 EGU2012-12710
W. Song, X. Xu, Q. Duan, S.J. van Andel, A.H. Lobbrecht, and D.P. Solomatine
Development of pre-processing method for use of meteorological ensemble predictions as input to hydrological models: case study of the Huai River Basin, China
- A256 EGU2012-12277
R. Marty, H. Kuswanto, V. Fortin, and A.-C. Favre
Combining the Bayesian Processor of Forecast with Bayesian Model Averaging for reliable weather forecasting
- A257 EGU2012-10443
S.S Johansen
Local calibration of probabilistic quantitative precipitation forecasts using geostatistical model averaging
- A258 EGU2012-14046
I. Zalachori, M.-H. Ramos, R. Garçon, J. Gailhard, and T. Mathevet
Statistical processing of forecasts for hydrological ensemble prediction: a comparative study of bias correction strategies
- A259 EGU2012-6326
F. Brissette, J. Chen, Z. Li, and R. Turcotte
Combining stochastic weather generation and ensemble streamflow predictions for short to medium term flow forecasting over Quebec, Canada
- A260 EGU2012-9166
T. Van Pham, **M.-H. Ramos**, M. J. Booij, and M. S. Krol
Impact of different sources of uncertainty on the quality of ensemble streamflow forecasts
- A261 EGU2012-14202
G. Thirel and P. Burek
Assessing the quality of the snow model used in the European Flood Awareness System (EFAS) against MODIS satellite observations over 8 years

NH1.8/AS4.15/ESSI1.3/HS5.10/HS7.7 – ICT-based hydrometeorology science and natural disaster societal impact assessment (co-organized) – Posters

Convener: A. Parodi | Co-Conveners: N. Rebora, G.C. Craig, A. Clematis, D. Kranzmueller, M. Schiffrers

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Antonio Parodi

- XY168 EGU2012-7308
D. D'Agostino
An overview of Grid portal technologies for the development of HMR science gateways
- XY169 EGU2012-7622
Q. Harpham
FluidEarth with OpenMI version 2.0 - Lowering the Barriers to Integrated Hydro-meteorological Modelling
- XY170 EGU2012-9137
L. Deki?, A. Mihalovi?, I Jovi?i?, D Vladikovi?, J Jerini?, and M Ivkovi?
Forecasting river discharge using coupled WRF-NMM meteorological model and HBV runoff model, case studies
- XY171 EGU2012-9794
M. Marku, V. Mustaqi, E. Abazi, K. Zaimi, E. Vako, M. Gjonaj, F. Hoxhaj, M. Deda, E. Fiori, M. Massabò, and F. Castelli
Meteorological and Hydrogeological Warning Thresholds in the operational bulletins of the Albanian National Centre for Forecast and Monitoring of Natural Risks
- XY172 EGU2012-10960
T. Bedrina, A. Parodi, A. Quarati, A. Clematis, N. Rebora, and D. Laiosa
Integrating data and mashup concepts in Hydro-Meteorological Research: the torrential rainfall event in Genoa (4th November 2011) case study.
- XY173 EGU2012-11270
E. Boldrini, F. Salas, D. R. Maidment, P. Mazzetti, M. Santoro, S. Nativi, and B. Domenico
Bridging the gap between Hydrologic and Atmospheric communities through a standard based framework
- XY174 EGU2012-11898
L. Mediero, L. Garrote, A. Requena, and A. Chávez
Comparison between genetic programming and an ensemble Kalman filter as data assimilation techniques for probabilistic flood forecasting

- XY175 EGU2012-12246
V. Bacu, D. Mihon, T. Stefanut, D. Rodila, P. Cau, S. Manca, C. Soru, and D. Gorgan
 Hydrological Scenario Using Tools and Applications Available in enviroGRIDS Portal
- XY176 EGU2012-12962
H.R.A. Jagers, M. Genseberger, and M.A.F.H. van den Broek
 Using HPC within an operational forecasting configuration
- XY177 EGU2012-13796
M. Shapovalov
 Effect of Severe Weather Processes on the Social and Economic Activity in the North Caucasus Region

NH1.11/AS4.16/CL2.4 – Hazard Risk Management in Agriculture and Agroecosystems (co-organized) – Orals

Convener: A. M. Tarquis | Co-Conveners: N. R. Dalezios, A. Saa, M. Semenov, A. Gobin, M. van der Velde, M. Ruiz-Ramos, M. Ramos

Room: 1

Chairperson: M. Semenov

- 08:30–08:45 EGU2012-7685
A. Gobin and I. Piccard
 Meteorological risks, impacts on crop production systems and agricultural insurances in Belgium
- 08:45–09:00 EGU2012-556
S.A. Khresat
 Adaptation measures to reduce the impact of climate variability on crop production in Jordan
- 09:00–09:15 EGU2012-13551
K. C. Kersebaum, M. Gandorfer, and M. Wegehenkel
 Assessment of production risks for winter wheat in different German regions under climate change conditions
- 09:15–09:30 EGU2012-4151
E. Vanuytrecht, D. Raes, P. Willems, and M. Semenov
 Comparing climate change impacts on crops in Belgium based on CMIP3 and EU-ENSEMBLES multi-model ensembles
- 09:30–09:45 EGU2012-1690
H. Fraga, J. A. Santos, A.C. Malheiro, and J. Moutinho-Pereira
 Viticultural zoning in Portugal: current conditions and future scenarios
- 09:45–10:00 EGU2012-6249
Z. Dunkel, E. Vincze, and A. Moring
 Meteorological contribution to the mitigation and adaptation of the 'extreme water events' of Hungarian Great Plain

COFFEE BREAK

Chairperson: A. Gobin

- 10:30–10:45 EGU2012-13848
M. Capa-Morocho, B. Rodríguez-Fonseca, and M. Ruiz-Ramos
 Climatic variability effects on summer cropping systems of the Iberian Peninsula
- 10:45–11:00 EGU2012-14106
M. Bielza, T. Maestro, A. Algarra, and A. Garrido
 Analysis of the impact of water shortage on irrigated fruit yields in Spain
- 11:00–11:15 EGU2012-8204
M. Gil, A. Garrido, and N. Hernández-Mora
 Economic Drought Impact on Agriculture: analysis of all agricultural sectors affected
- 11:15–11:30 EGU2012-4085
N. R. Dalezios, A. Blanta, and N.V. Spyropoulos
 Remotely Sensed Quantitative Drought Risk Assessment in Vulnerable Agroecosystems
- 11:30–11:45 EGU2012-13927
 E. Iglesias and **K. Baez**
 Innovation in drought risk management: exploring the potential of weather index insurance
- 11:45–12:00 EGU2012-13945
J.A. Escribano Rodríguez, A.M. Tarquis, and C.G. Hernandez Díaz-Ambrona
 Pasture Drought Insurance Based on NDVI and SAVI

NH1.11/AS4.16/CL2.4 – Hazard Risk Management in Agriculture and Agroecosystems (co-organized) – Posters

Convener: A. M. Tarquis | Co-Conveners: N. R. Dalezios, A. Saa, M. Semenov, A. Gobin, M. van der Velde, M. Ruiz-Ramos, M. Ramos

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Nicolas Dalezios

- XY178 EGU2012-378
D. Lobo, K. Verbist, D. Gabriels, M. Puche, G. Bracho, G. Soto, and F. Santibañez
Zonation of hydric regimens in Venezuela based on rainfall characteristics
- XY179 EGU2012-4817
Z. Hussain and S. Saeed
Intraseasonal to interannual variability of summer monsoon rainfall and its influence on the Agricultural corps in mountainous Kashmir
- XY180 EGU2012-6667
R.R Muita, F.F van Ogtrop, and R.W Vervoort
Dry spell trend analysis in Kenya and the Murray Darling Basin using daily rainfall
- XY181 EGU2012-10700
M. G. Cortina-Januchs, J. Quintanilla-Dominguez, A. Vega-Corona, and D. Andina
Time series prediction in agroecosystems
- XY182 EGU2012-10745
J M Anton, J B Grau, A M Tarquis, D Andina, and M E Sanchez
Prediction in cases with superposition of different hydrological phenomena, such as from weather “cold drops
- XY183 EGU2012-13094
V. Mereu, A. Gallo, G. Carboni, and D. Spano
Impact of climate change and adaptation strategies on crop production in Nigeria
- XY184 EGU2012-13788
A. Florentino, D. Torres, A. Ospina, J. Contreras, Z. Palma, and J. Silvera
Soil physical conditions as livestock treading effect in tropical Agroecosystem of dryland and strategies to mitigate desertification risk
- XY185 EGU2012-13790
A. Ospina, A. Florentino, and V. Lorenzo
Soil management system for water conservation and mitigation of global change effect
- XY186 EGU2012-13851
M. Capa-Morocho, M. Ruiz-Ramos, and B. Rodríguez-Fonseca
Methodological discussion for interdisciplinary project on the effects of climatic variability on cropping systems.
- XY187 EGU2012-14338
M.A. Rodrigues, A. Monteiro, A. Rocha, H. Quenol, and J.R. de Freitas
Application of Bioclimatic Indexes to the Characterization of the Viticulture Aptitude within the Demarcated Douro Region
- XY188 EGU2012-14339
M.A. Rodrigues, A. Rocha, A. Monteiro, H. Quénol, and J.R. de Freitas
Prediction of Frost Risks and Plagues using WRF model: a Port Wine region case study
- XY189 EGU2012-2396
MA Semenov and S Pilkington-Bennett
Validation of ELPIS baseline scenarios using ECA&D observed data
- XY190 EGU2012-6224
A. Giarolla, N. Resende, S. C. Chou, P. S. Tavares, and D. C. Rodrigues
COFFEE BEVERAGE QUALITY ASSESSMENT BASED ON ETA/CPTEC-HadCM3 MODEL (A1B-IPCC/SRES SCENARIO), SOUTHEASTERN BRAZIL
- XY191 EGU2012-9024
K. Szafranek, B. Jakubiak, R. Lech, and M. Tomczuk
Results of analysis of archive MSG data in the context of MCS prediction system development for economic decisions assistance - case studies
- XY192 EGU2012-9473
H. S. Choi, U. Schneider, E. Schmid, and H. Held
The value of seasonal forecasting and crop mix adaptation to climate variability for agriculture under climate change
- XY193 EGU2012-13944
J.L. Valencia, A. Saa-Requejo, J.M. Gascó, and A.M. Tarquis
Frequency and Intensity of drought events over Ebro River basin
- XY194 EGU2012-5666
J M Anton, J B Grau, A M Tarquis, D Andina, J M Cisneros, and **E Sanchez**
Discussion about decision support systems using continuous multi-criteria methods for planning in areas with hydro-basins, agriculture and forests, from examples in Argentine.

- XY195 EGU2012-5774
D. Perez-Lopez, M. Ruiz-Ramos, E. Sánchez-Sánchez, A. Centeno, I. Prieto-Egido, and N. Lopez-de-la-Franca
Influence of climate change on the flowering of temperate fruit trees
- XY196 EGU2012-2697
J. M. Anton, J. B. Grau, A. M. Tarquis, D. Andina, and J. M. Cisneros
Development of mathematical models to elaborate strategies, select alternatives and development of plans for adaptation of communities to climate change in different geographical areas including costs to implement it
- XY197 EGU2012-3698
J. M. Mirás Avalos, E. Vidal Vázquez, P. Sande Fouz, and A. Paz González
Copping with Uncertainties in Mapping Extreme and Mean Temperatures at the Regional Level for Risk Management in Agriculture: A Case Study in Galicia, NW Spain
- XY198 EGU2012-12312
T. Calheiros, M.G. Pereira, J.G. Pinto, L. Caramelo, J. Gomes-Laranjo, and C.C. Dacamara
Assessing potential changes of chestnut productivity in Europe under future climate conditions
- XY199 EGU2012-12447
M. G. Castiglione, M. C. Sasal, M. G. Wilson, A. Paz González, and J. D. Oszust
Temporal Variability of Physical Properties on an Aquic Argiudoll under no Tillage
- XY200 EGU2012-12860
J. Ramarohetra and B. Sultan
Are satellite based rainfall estimates accurate enough for crop modelling under Sahelian climate?
- XY201 EGU2012-13138
M. A. Pilatti, R. Marano, O. Felli, A. Alesso, M. E. Carrizo, and M. C. Miretti
Degradation and Improvement of Argiudolls in Centre Santa Fe (Argentina): Changes in Physical and Chemical Soil Properties and in its Productive Capacity Using a sSmulation Model of Crop Growth
- XY202 EGU2012-14075
C. Lozano, A.M. Tarquis, and J.A. Gómez-Barona
Sum Insured Determination for Cereal, Citrus and Vineyards in the Spanish Agricultural Insurance System

NH3.3/GM6.3 – Rockfalls, rockslides and rock avalanches (co-organized) – Orals

Conveners: JR Moore, Krautblatter | Co-Conveners: A. Volkwein, F. Agliardi, G. Crosta, LKA Dorren

Room: 4

Chairperson: Krautblatter, Moore

- 08:30–08:45 EGU2012-1567
K. Thoeni, A. Giacomini, C. Lambert, and S.W. Sloan
Numerical and experimental investigation of a rockfall drapery system
- 08:45–09:00 EGU2012-11022
J. Glover, A. Schweizer, M. Christen, W. Gerber, R. Leine, and P. Bartelt
Numerical investigation of the influence of rock shape on rockfall trajectory
- 09:00–09:15 EGU2012-12728
A. Volkwein, J. Glover, F. Bourrier, and W. Gerber
A quality assessment of 3D video analysis for full scale rockfall experiments
- 09:15–09:30 EGU2012-9304
F. X. Yugsí Molina, T. Oppikofer, L. Fischer, R. L. Hermanns, and A. Taurisano
Rockfall hazard assessment integrating probabilistic physically based rockfall source detection (Norddal municipality, Norway).
- 09:30–09:45 EGU2012-295
L.M. Vick, T.R. Davies, M Villeneuve, and C Massey
Two- and Three-dimensional coseismic rockfall modelling, Christchurch, New Zealand
- 09:45–10:00 EGU2012-12053
G.M. Stock, B.D. Collins, S.J. Martel, and R.J. Sas
Factors promoting rock falls along sheeting joints

COFFEE BREAK

Chairperson: Moore, Krautblatter

- 10:30–10:45 EGU2012-6037
A. Abellán, D. Carrea, A. Loye, M. Tonini, M. Jaboyedoff, M. Royan, and A. Pedrazzini
Understanding precursory rockfalls along cracks

- 10:45–11:00 EGU2012-10659
U. Schwaderer, M. Walter, and M. Joswig¹
 Seismic precursory signals from a rockfall at Rappenlochschlucht, Vorarlberg, Austria
- 11:00–11:15 EGU2012-12460
M. Bundschuh and K. Thuro
 Mechanisms of rock slope failure in conglomerates with variable lithification
- 11:15–11:30 EGU2012-13223
B.D. Collins and G.M. Stock
 Exfoliation-type rock fall triggering from thermally-induced cyclic deformation
- 11:30–11:45 EGU2012-1413
D. Bakun-Mazor and Y.H. Hatzor
 Rockslides in Masada: thermally induced "ratchet" mechanism vs. response to seismic loading
- 11:45–12:00 EGU2012-12479
S. Ivy-Ochs, S. Martin, P. Campedel, V. Alfimov, E. Andreotti, A. Viganò, G. Carugati, C. Vockenhuber, and S. Cocco
 Constructing a time series for large landslides in Trentino (Italy) with ³⁶Cl exposure dating

NH3.3/GM6.3 – Rockfalls, rockslides and rock avalanches (co-organized) – Posters

Conveners: JR Moore, Krautblatter | Co-Conveners: A. Volkwein, F. Agliardi, G. Crosta, LKA Dorren

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Moore, Krautblatter

- XY203 EGU2012-1108
 M. Spadari, A. Giacomini, **O. Buzzi**, and J. Hambleton
 Application of dimensional analysis to predict the performance of rockfall barrier
- XY204 EGU2012-5514
A.J.A.M. Temme
 Assessing the value of information in climber's guidebooks to derive spatio-temporal rockfall patterns
- XY205 EGU2012-11251
X. Wang, P. Frattini, F. Agliardi, and G.B. Crosta
 The influence of slope profile extraction techniques and DEM resolution on 2D rockfall simulation
- XY206 EGU2012-10891
B. Sellmeier and K. Thuro
 Possibilities and limitations of 2D and 3D rockfall simulations - which kinds of uncertainties do we have to consider?
- XY207 EGU2012-12239
F Humair, B Matasci, D Carrea, A Pedrazzini, A Loye, G Pedrozzi, P Nicolet, and M Jaboyedoff
 MONTE GENEROSO ROCKFALL FIELD TEST (SWITZERLAND): Real size experiment to constraint 2D and 3D rockfall simulations
- XY208 EGU2012-3878
S. Melzner, G.M. Stock, and P. Reichenbach
 Back-analysis of rockfall events using 3D trajectory simulation models
- XY209 EGU2012-8388
R. Pellicani, G. Spilotro, G. Colangelo, A. Petraglia, and V. Pizzo
 Rockfall risk assessment for a road along the coastal rocky slope of Maratea (Basilicata Region, Italy)
- XY210 EGU2012-11412
P. Frattini, S. Lari, F. Agliardi, G.B. Crosta, and H. Salzmann
 Probabilistic Rockfall Hazard Analysis in the area affect by the Christchurch Earthquakes, New Zealand
- XY211 EGU2012-13875
A. Schober, C. Bannwart, and M. Keuschnig
 Rockfall modelling in high alpine terrain - Validation and limits, Kitzsteinhorn, Hohe Tauern, Austria.
- XY212 EGU2012-12348
T. Piacentini, E. Miccadei, G. Boscaino, L. Del Sordo, R. Di Michele, F. Leonardis, and G. Pipponzi
 Rock falls landslides in Abruzzo (Central Italy) after recent earthquakes: morphostructural control
- XY213 EGU2012-10875
J.M. Reitner, R. Schuster, and A. Geyer
 From Rock to Silt: The Auernig Sturzstrom (Eastern Alps/Carinthia/Austria)
- XY214 EGU2012-3526
M. Farin, A. Mangeney, O. Roche, I.R. Ionescu, and O. Hungr
 Landslide boost from entrainment of erodible material along the slope
- XY215 EGU2012-11572
G. Crosta, F. De Blasio, M. De Caro, G. Volpi, and P. Frattini
 Granular flows on erodible layers: type and evolution of flow and deposit structures

- XY216 EGU2012-5147
A. Dufresne, T. R. Davies, and M. J. McSaveney
Emplacement of rock avalanche material across saturated sediments, Southern Alp, New Zealand
- XY217 EGU2012-7512
P. Köpfli, J.R. Moore, and S. Ivy-Ochs
The Oeschinenensee rock avalanche: reconstruction and dating of a prehistoric event
- XY218 EGU2012-10769
L. Grämiger, J.R. Moore, and S. Ivy-Ochs
Prehistoric rock avalanches at Rinderhorn, Switzerland
- XY219 EGU2012-2330
JR Moore, V. Gischig, F. Amann, M. Hunziker, and J. Burjanek
The 1946 Rawilhorn rock avalanche (Valais, Switzerland) - linking earthquake-induced rock mass damage to seismic amplification
- XY220 EGU2012-4603
M. Ostermann, D. Sanders, S. Ivy-Ochs, V. Alfimov, M. Rockenschaub, and A. Römer
An early Holocene rock avalanche at Obernberg (Brenner Pass Area, Tyrol)
- XY221 EGU2012-9320
C. Longchamp, M. Charrière, and M. Jaboyedoff
Analogue modelling of rock avalanches and structural analysis of the deposits
- XY222 EGU2012-1973
S. Hergarten
Topography-based modeling of large rock avalanches and application to hazard assessment
- XY223 EGU2012-8548
D. Aringoli, B. Gentili, **M. Materazzi**, G. Pambianchi, and N. Sciarra
Large rockslides and slope deformations in active tectonic areas of Adriatic central Italy
- XY224 EGU2012-4538
P. Bottelin, D. Jongmans, L. Baillet, J. Turpin, C. Levy, T. Lebourg, D. Hantz, O. Leroux, H. Cadet, L. Lorier, and J-D. Rouiller
Study of the dynamic response of prone-to-fall spurs using seismic noise
- XY225 EGU2012-6867
R. Nishii, F. Imaizumi, W. Murakami, H. Daimaru, T. Miyamae, and Y. Ogawa
LiDAR monitoring of retrogressive processes on the steep rockslope of a large landslide in the Japanese Alps
- XY226 EGU2012-12379
B. Matasci, G.M. Stock, M. Jaboyedoff, T. Oppikofer, A. Pedrazzini, and D. Carrea
Rock face stability analysis and potential rockfall source detection in Yosemite Valley
- XY227 EGU2012-12331
B. Matasci, L. Ravanel, M. Jaboyedoff, and P. Deline
Structural analysis and stability assessment of the West face of the Drus (3733m, Mont Blanc massif)
- XY228 EGU2012-12488
I. Hartmeyer, M. Keuschnig, R. Delleske, and L. Schrott
Reconstruction of the Magnetkoepl rockfall event - Detecting rock fall release zones using terrestrial laser scanning, Hohe Tauern, Austria
- XY229 EGU2012-10787
F. Gallo, J. Lavé, G. Morin, C. France-Lanord, and A.P. Gajurel
Hillslope erosion and landslide dynamics in the central Himalayas
- XY230 EGU2012-10495
M. Weber, M. Bimböse, K.-H. Schmidt, and D. Morche
On the contemporary morphodynamics of an alpine talus cone and the granulometry and morphometry of its surface particles

NH3.5 – Advanced methods in landslides research I: remote sensing and geophysics – Orals

Convener: M. Jaboyedoff | Co-Conveners: V. Del Gaudio, G. Grandjean, J. Wasowski

Room: 4

Chairperson: M. Jaboyedoff & J. Wasowski

- 13:30–13:45 EGU2012-4575
F. Bovenga, A. Refice, and G. Pasquariello
Corner reflector deployment for X-band SAR interferometry to monitor the landslide of Carlantino, Daunia Region (Italy)
- 13:45–14:00 EGU2012-8599
D. Notti, **C. Meisina**, F. Zucca, A. Colombo, A. Cucchi, and F. Poggi
Pro and Cons of non-linear SqueeSAR Time Series compared with other monitoring systems in landslides study

- 14:00–14:15 EGU2012-12259
A. Tamburini, S. Del Conte, L. Lopardo, C. Malaguti, G. Larini, and P. Vescovi
 Advance InSAR techniques for the characterization of deep seated gravitational slope deformation
- 14:15–14:30 EGU2012-10342
M. Mulas, M. Petitta, M. Brazanti, E. Benedetti, A. Corsini, and C. Iasio
 Spatio-temporal analysis of SAR based time series for slope instability characterization: the Corvara in Badia landslide (Dolomites, Italy)
- 14:30–14:45 EGU2012-9837
T. Oppikofer, M. Böhme, L. Fischer, and R.L. Hermanns
 Quantification of rotational and toppling movements of unstable rock slopes based on discontinuity orientations
- 14:45–15:00 EGU2012-327
A. Malehmir, C. Krawczyk, U. Polom, E. Lundberg, A. Adamczyk, M. Malinowski, M. Bastani, M. Gurk, C. Juhlin, L. Persson, and N. Ismail
 A multidisciplinary geophysical, geotechnical and hydrogeological investigation of quick-clay landslides in Sweden
- Chairperson: V. Del Gaudio & G. Grandjean
- 15:30–15:45 EGU2012-13348
S. Saba
 Landslide detection through horizontal displacement by using multi temporal optical imagery
- 15:45–16:00 EGU2012-7513
D. Hölbling, P. Füreder, V. Tsai, and B. Friedl
 Automated object-based landslide and debris flow identification - a case study for supporting disaster management in Taiwan
- 16:00–16:15 EGU2012-10802
J. Wasowski, C. Lamanna, M. Dipalma, and D. Casarano
 Land use change, landsliding and agricultural land degradation: a case history from the Southern Apennines, Italy
- 16:15–16:30 EGU2012-6537
 A. Stumpf, **J.-P. Malet**, N. Kerle, V. Tofani, S. Segoni, N. Casagli, C. Michoud, M. Jaboyedoff, G. Fornaro, D. Peduto, L. Cascini, I. Baron, R. Supper, T. Oppikofer, J.-S. L'Heureux, M. Van Den Eeckhaut, J. Hervás, J. Moya, D. Raucoules, and M. Carman
 Guidelines for the selection of appropriate remote sensing technologies for landslide detection, monitoring and rapid mapping: the experience of the SafeLand European Project.
- 16:30–16:45 EGU2012-2709
C. Levy, S. Zerathe, and T. Lebourg
 Contribution of pluri-annual electrical time laps survey to the understanding of short and long term landslide dynamics
- 16:45–17:00 EGU2012-13816
 R. Supper, **I. Baron**, E. Winkler, K. Motschka, W. Jaritz, G. Moser, and M. Carman
 Caesium-137 as Indicator of Present Mass-Movement and Erosion Processes

NH3.5 – Advanced methods in landslides research I: remote sensing and geophysics – Posters

Convener: M. Jaboyedoff | Co-Conveners: V. Del Gaudio, G. Grandjean, J. Wasowski

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: M. Jaboyedoff

- XY231 EGU2012-2329
K. Samyn, J. Travelletti, A. Bitri, G. Grandjean, and J. P. Malet
 Characterization of landslide geometry using 3D seismic refraction traveltimes tomography
- XY232 EGU2012-4323
J. Gance, K. Samyn, G. Grandjean, and J.-P. Malet
 Quasi-Newton algorithm using Fresnel wavepaths and frequency increase for P-wave tomography inversion: application to a landslide in the South French Alps
- XY233 EGU2012-8372
 C. Camera, T. Apuani, **M. Mele**, S.L. Kuriakose, and M. Giudici
 Soil depth map definition on a terraced slope for a following distributed, high resolution, numerical modelling analysis
- XY234 EGU2012-10607
S. Rothmund, U. Niethammer, and M. Joswig
 UAV-based remote sensing of landslides as complement to geophysical subsurface monitoring

- XY235 EGU2012-11489
A. Burtin, N. Hovius, D. Milodowski, Y.-G. Chen, Y.-M. Wu, C.-W. Lin, and H. Chen
 Continuous catchment-scale monitoring of geomorphic processes with a 2-D seismological array
- XY236 EGU2012-6784
H-K Chuang., M-L Lin, and W-C Huang
 Combining Landform Thematic Layer and Object-Oriented Image Analysis to Map the Surface Features of Mountainous Flood Plain Areas
- XY237 EGU2012-6928
Y. H. Lin, C. M. Huang, J. Keck, L. W. Wei, and K. L. Pan
 Using Google Earth To Interpret The Southern Taiwan Hsiaolin Village Catastrophe
- XY238 EGU2012-7375
D. Lagomarsino, L. Tanteri, G. Forzieri, A. Battistini, and F. Catani
 Testing the combined use of LIDAR and High-Resolution Multispectral data for Automatic detection of Landslides in the Marecchia valley, Italy.
- XY239 EGU2012-4370
D. Carrea, M.-H. Derron, N. Gauvin, and M. Jaboyedoff
 One year terrestrial laser scanning monitoring of an active rockslide in highly deformed rocks in western Swiss Alps
- XY240 EGU2012-5654
M. Berti, A. Corsini, and A. Daehne
 Comparative analysis of roughness algorithms for the identification of active landslides
- XY241 EGU2012-7100
M.-H. Derron, R. Metzger, D. Carrea, and M. Jaboyedoff
 Various approaches for vegetation filtering of terrestrial laser scans
- XY242 EGU2012-8663
B. Friedl, D. Hölbling, and P. Füreder
 Combining TerraSAR-X and SPOT-5 data for object-based landslide detection
- XY243 EGU2012-2914
C. Michoud, A. Abellan, F.-J. Baillifard, J. Demierre, M.-H. Derron, M. Jaboyedoff, J. Jakubowski, and F. May-Delasoie
 The structurally-controlled rockslide of Barmasse (Valais, Switzerland): structural geology, ground-based monitoring and displacement vs. rainfall modeling.
- XY244 EGU2012-6617
L. Rouyet, L. Kristensen, M.-H. Derron, C. Michoud, L. H. Blikra, and M. Jaboyedoff
 Characterization of large instabilities displacements using Ground-Based InSAR
- XY245 EGU2012-4319
F. Ardizzone, M.G. Angeli, F. Calò, R. Castaldo, F. Federica, F. Guzzetti, P. Lollino, A. Manconi, M. Manunta, M. Manzo, M. Cardinali, L. Paglia, F. Pontoni, P. Reichenbach, M. Rossi, and P. Tizzani
 Temporal and Spatial Analysis of Landslides Through the SBAS-DInSAR Approach: the Ivancich, Assisi, test case
- XY246 EGU2012-3344
S. Bouraoui, Z. Cakir, R. Bougdal, and M. Meghraoui
 MT-InSAR monitoring of ground deformation around the Haoud Berkaoui sinkhole (SE Algeria)
- XY247 EGU2012-8335
 S. Plank, **J. Singer**, Ch. Minet, and K. Thuro
 Differential synthetic aperture radar interferometry for landslide monitoring: a priori GIS based assessment of feasibility
- XY248 EGU2012-13403
J. Singer, M. Riedmann, O. Lang, J. Anderssohn, K. Thuro, Th. Wunderlich, O. Heunecke, and Ch. Minet
 Corner reflector SAR interferometry as an element of a landslide early warning system
- XY249 EGU2012-11202
S. Bianchini, F. Cigna, C. Del Ventisette, S. Moretti, and N. Casagli
 Monitoring landslide-induced deformation with TerraSAR-X Persistent Scatterer Interferometry (PSI): Gimigliano case study in Calabria Region (Italy)

EMRP2.6/GMPV6.10/NH4.1/SM5.5/TS2.9 – Thermo-mechanical coupling and physical properties: implications to natural hazards (co-organized) – Orals

Convener: S. Vinciguerra | Co-Conveners: G. Di Toro, D. Faulkner, M. J. Heap, O. Lengliné

Room: 42

Chairperson: Vinciguerra

- 13:30–13:45 EGU2012-4392
R. Stefansson and M. Bonafede
 From a physical approach to earthquake prediction, towards long and short term warnings ahead of large earthquakes

- 13:45–14:00 EGU2012-314
B. Grzempa, V.L. Popov, J. Starcevic, and M. Popov
 Earthquake Dynamics in Laboratory Model and Simulation - Accelerated Creep as Precursor of Instabilities
- 14:00–14:15 EGU2012-582
A. Kushnir, L. Kennedy, S. Misra, and P. Benson
 Carbonates in thrust faults: High temperature investigations into deformation processes in calcite-dolomite systems
- 14:15–14:30 EGU2012-4495
A. Schubnel, N. Hilaret, F. Brunet, J. Gasc, P. Cordier, Y. Wang, and H.W. Green
 Seismicity triggered by the olivine-spinel transition: new insights from combined XRD and acoustic emission monitoring during deformation experiments in Mg₂GeO₄
- 14:30–14:45 EGU2012-5228
N. Brantut and J. Sulem
 Instabilities in strain-rate hardening, chemically-weakening rocks: revisiting the mechanism of "dehydration-embrittlement"
- 14:45–15:00 EGU2012-160
C. Scholz and J. Campos
 The Seismic Coupling of Subduction Zones Revisited
- Chairperson: Heap
- 15:30–15:45 EGU2012-4176
F. Renard and M. Kobchenko
 4D imaging of fluid escape in low permeability shales during heating
- 15:45–16:00 EGU2012-13208
B. Carpenter, H. Kitajima, and D. Saffer
 Hydraulic and Acoustic Properties of Alpine Fault DFDP1a Core
- 16:00–16:15 EGU2012-3227
A. Ougier-Simonin and W. Zhu
 The role of fluid pressure on slip instability
- 16:15–16:30 EGU2012-7348
S. Smith, G. Di Toro, E. Spagnuolo, S. Nielsen, M. Violay, R. Spiess, and A. Billi
 Co-seismic frictional properties and microstructures of carbonate fault rocks in nature and experiment
- 16:30–16:45 EGU2012-12993
N. De Paola, I. Faoro, and R.E. Holdsworth
 The evolution of the frictional properties of faults during the seismic cycle
- 16:45–17:00 EGU2012-6985
O. Ben-David and J. Fineberg
 Slip stick and the rapid dynamics of static friction

EMRP2.6/GMPV6.10/NH4.1/SM5.5/TS2.9 – Thermo-mechanical coupling and physical properties: implications to natural hazards (co-organized) – Posters

Convener: S. Vinciguerra | Co-Conveners: G. Di Toro, D. Faulkner, M. J. Heap, O. Lengliné

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Lengliné

- A25 EGU2012-114
M.Sc. Fidiriková and D.Sc. Kubišár
 Moisture impact on building rocks - the laboratory and in situ investigations
- A26 EGU2012-299
E. Ferre, J.W. Geissman, and M.S. Zechmeister
 Coseismic paleomagnetic signal in fault pseudotachylytes?
- A27 EGU2012-514
M. Ikari, A. Niemeijer, C. Spiers, and A. Kopf
 Unstable slip behavior in sediments from the Costa Rica convergent margin
- A28 EGU2012-900
A. Hassanzadegan, G. Bloecher, H. Milsch, and G. Zimmermann
 The effect of temperature on mechanical and hydraulic properties of Flechtinger sandstone
- A29 EGU2012-1850
 Y. Lavallée, **M. J. Heap**, A. Laumann, K.-U. Hess, P. G. Meredith, and D. B. Dingwell
 How tough is tuff in the event of fire?
- A30 EGU2012-2831
I.G. Main, A.F. Bell, P.G. Meredith, N. Brantut, and M. Heap
 Scaling of coupled dilatancy-diffusion processes in space and time

- A31 EGU2012-2900
E.H. Saenger, **M. Frehner**, C. Madonna, N. Tisato, M. Kuteynikova, N. Riahi, P. Sala, and B. Quintal
Combining laboratory and computational rock physics
- A32 EGU2012-3018
P. Tizzani, R. Castaldo, S. Pepe, and G. Solaro
3D Imaging of Brittle/Ductile transition of the crust beneath the resurgent calderas
- A33 EGU2012-3673
A. V. Smaglichenko and L. A. Sim
Seismic analyze of satellite image and tomographic model: an example of the Nagano fault zone
- A34 EGU2012-4397
A. Bizzarri, **P. Crupi**, S. de Lorenzo, and M. Loddo
Thermal effects on the time occurrence of earthquake failures: a deterministic approach.
- A35 EGU2012-4457
B. Derode, F. Cappa, and Y. Guglielmi
Different seismic signatures of fractures slip and their correlations with fluid pressures in in-situ rupture experiments
- A36 EGU2012-4847
N. Lesparre, A. Adler, F. Nicollin, D. Gibert, and C. Nussbaum
Monitoring the Excavation Damaged Zone in Opalinus clay by three dimensional reconstruction of the electrical resistivity in the Mont Terri gallery G-04
- A37 EGU2012-5304
J. Chen, X. Yang, and C. J. Spiers
Coseismic thermal-mechanical-chemical processes on the Wenchuan Earthquake fault: constraints from experiments and numerical modeling
- A38 EGU2012-5571
S. Loaiza, J. Fortin, M. Adelinet, Y. Guéguen, and S. Violette
Hydrodynamic properties of the basal aquifer of Santa Cruz Island using seismic refraction, Galapagos - Ecuador
- A39 EGU2012-5934
C. Boulton, M. Villeneuve, and C. Goodin
Acoustic emissions generated during uniaxial compressive strength tests on Lyttelton volcano rocks, Christchurch, New Zealand
- A40 EGU2012-7076
S.A.M. den Hartog, A.R. Niemeijer, and C.J. Spiers
Frictional properties of megathrust fault gouges under true in-situ subduction zone conditions
- A41 EGU2012-7150
O. Lengliné, J. Schmittbuhl, J. Elkhoury, J.-P. Ampuero, K. J. Maloy, A. Cochard, and R. Toussaint
Influence of temperature in interfacial crack propagation in a heterogeneous medium
- A42 EGU2012-8830
M. Moreira and N. Wallenstein
Evolution of elastic properties and acoustic emission, during uniaxial loading of rocks, from the Fogo Volcano in the island of Sao Miguel, Azores; Preliminary results.
- A43 EGU2012-8882
R.J. Wall, C.R.J. Kilburn, and P.G. Meredith
Seismic Precursors to Eruptions at Volcanoes in Extensional Stress Fields
- A44 EGU2012-9327
M. Bourcier, A. Dimanov, E. Hérupré, M. Bornert, and J. Raphanel
Effects of microstructure and temperature on the plastic deformation mechanisms of synthetic halite : a micromechanical approach
- A45 EGU2012-10337
J. Scheibert, C. Guerra, D. Bonamy, and D. Dalmas
Understanding fast macroscale fracture from microcrack post mortem patterns
- A46 EGU2012-11127
M. Krumbholz, S. Burchardt, D. C. Tanner, and H. Koyi
On the scale-invariance of fractures and fracture patterns in the Transscandinavian Igneous Belt, Southeast Sweden
- A47 EGU2012-12527
J.M. Azañón, E. Puertas, **C. Ureña**, R. Gallego, and F. Romero-Gómez
Collapse in a rock massif induced by lateral confinement loss: the case of Montegolf (Málaga, Spain)
- A48 EGU2012-13592
M. J. Werner and A. M. Rubin
Numerical Simulations of Mechanical Erosion from below by Creep on Rate-State Faults
- A49 EGU2012-6336
M.-L. Bernard and M. Zamora
Seismic properties of volcanic rocks from Montagne Pelée (Martinique, Lesser Antilles) and their relations to transport properties

NH4.2/NP7.4/SM5.3/TS8.7 – Fracture and earthquake physics: modeling precursory phenomena and seismic hazard also with nonlinear seismology (including Plinius Medal Lecture) (co-organized) – Orals

Convener: F. Vallianatos | Co-Conveners: P. Sammonds, V. Lapenna, G. Marmureanu, R. Madariaga, GF Panza

Room: 1

Chairperson: G. Marmureanu

- 13:30–13:45 EGU2012-2243
G. Marmureanu, C.O. Cioflan, and A. Marmureanu
 Nonlinear seismology a reality. The quantitative data
- 13:45–14:00 EGU2012-14469
A.A. Skarlatoudis, C.B. Papazachos, B.N. Margaris, Ch. Ventouzi, I. Kalogeras, and D. Vambakaris
 Ground motion prediction equations for intermediate-depth earthquakes in the Southern Aegean Subduction Zone : Identification of significant along-arc/back-arc differences and their impact on seismic hazard
- 14:00–14:15 EGU2012-7713
G. A. Papadopoulos, M. Avlonitis, B. Di Fiore, and G. Minadakis
 The Predictive Value of Foreshocks
- 14:15–14:30 EGU2012-1790
R. Teisseyre
 Fracture Recess: Asymmetric Continuum Approach
- 14:30–14:45 EGU2012-8070
N.V. Sarlis and S.-R.G. Christopoulos
 Natural time analysis of global seismicity: the identification of magnitude correlations.
- 14:45–15:00 EGU2012-4986
P. Senatorski
 Seismic state equation and scaling relations for earthquake parameters
- Chairperson: n.n.
- 15:30–16:30 EGU2012-14456
T.J. Sullivan
 Towards Improved Considerations of Risk in Seismic Design (Plinius Medal Lecture)
- 16:30–17:00 EGU2012-7882
 N.V. Sarlis, E.S. Skordas, M.S. Lazaridou, and **P.A. Varotsos**
 Natural time analysis: An overview.
- 17:00–17:15 EGU2012-12421
F. Vallianatos
 From rock fracture to plate tectonics. Evidence of non extensive statistical mechanics in Earth physics, A review

NH4.2/NP7.4/SM5.3/TS8.7 – Fracture and earthquake physics: modeling precursory phenomena and seismic hazard also with nonlinear seismology (including Plinius Medal Lecture) (co-organized) – Posters

Convener: F. Vallianatos | Co-Conveners: P. Sammonds, V. Lapenna, G. Marmureanu, R. Madariaga, GF Panza

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: P. Sammonds, R. Madariaga, J. Panza

- XY250 EGU2012-678
N. Jorjashvili, T. Yokoi, and Z. Javakhishvili
 Uncertainties related to seismic hazard assessment
- XY251 EGU2012-3586
S. F. Balan, B.F. Apostol, and C.O. Cioflan
 Soil Deposit Response due to Crustal Seismogenic Zone of Fagaras-Campulung, Romania
- XY252 EGU2012-4265
A. Bala, A. Aldea, S.F. Balan, and C. Arion
 Geological and Geophysical Models Underneath Bucharest City Responsible for the Variability of Seismic Site Effects
- XY253 EGU2012-4600
D. Solakov, S. Simeonova, L. Christoskov, P. Trifonova, and I. Aleksandrova
 Probabilistic Seismic Hazard Assessment for Bulgaria as a Basis for a new National Building Code
- XY254 EGU2012-2757
G. Chouliaras, G. Drakatos, K. Makropoulos, and N.S. Melis
 Recent seismicity detection increase at Santorini' s volcanic islands

- XY255 EGU2012-5150
J. Trømborg, D. S. Amundsen, K. Thøgersen, J. Scheibert, and A. Malthé-Sørensen
Precursor evolution in recent dry friction experiments explained by 2D simulation
- XY256 EGU2012-9934
Ch. G. Gkaraouni, V. G. Karakostas, E. E. Papadimitriou, and A. A. Kiliadis
Seismotectonic properties with implications on faulting identification revealed from recent seismicity in Greece
- XY257 EGU2012-11656
F. Vallianatos, V. Karakostas, and E. Papadimitriou
Non extensive statistical physics properties of the 2003 (Mw6.2), Lefkada, Ionian island Greece, aftershock sequence
- XY258 EGU2012-11799
F. Vallianatos, G. Michas, G. Papadakis, and P. Sammonds
Pore Pressure Diffusion as a possible mechanism for the Ag. Ioanis 2001 earthquake swarm activity (Gulf of Corinth, Central Greece).
- XY259 EGU2012-11835
F. Vallianatos, G. Papadakis, G. Michas, and P. Sammonds
A non extensive statistical physics analysis of the Hellenic subduction zone seismicity
- XY260 EGU2012-13460
A. Cartwright-Taylor, F. Vallianatos, and P. Sammonds
Non-extensive statistical physics properties of acoustic and pressure-stimulated current emissions measured concurrently during triaxial deformation experiments on marble and limestone samples
- XY261 EGU2012-11726
F. Vallianatos and D. Triantis
Is Pressure Stimulated Current relaxation in amphibolite a case of non-extensivity ?
- XY262 EGU2012-257
O.A. Hachay, O.Y. Khachay, V.K. Klimko, and O.V. Shipeev
Investigation of Non-Linear Dynamics of the Rock Massive, Using Seismological Catalogue data and Induction Electromagnetic Monitoring Data in a Rock Burst Mine.
- XY263 EGU2012-11760
R. Ditommaso and M. Mucciarelli
Non-linearity is not only softening: examples from L'Aquila (2009) and Christchurch (2011) earthquakes
- XY264 EGU2012-8194
I. Stavrakas, G. Hloupis, D. Triantis, and F. Vallianatos
Concurrent recordings of Electrical Current Emissions and Acoustic Emissions detected from marble specimens subjected to mechanical stress up to fracture
- XY265 EGU2012-1057
Closson, Abou Karaki, Pasquali, Holecz, Riccardi, Milisavljevic, and Bouaraba
Earthquakes' local site effects in Christchurch revealed by Cosmo-Skymed and Envisat radar images

SM2.1/GD1.3/NH4.9/TS8.5 – Large Earthquake and Tsunami Activity (co-organized) – Orals

Convener: M. Bezzeghoud | Co-Conveners: E. Bufoin, H. Hebert, H. M. Fritz

Room: 26

Chairperson: n.n.

- 08:30–08:45 EGU2012-4596
S. Stiros and P. De Jevonois Acillona
The AD 365 giant earthquake and tsunami in the Eastern Mediterranean
- 08:45–09:00 EGU2012-8111
C. Larroque, O. Scotti, M. Ioualalen, V. Hassoun, and S. Migeon
Reappraisal of the 1887 Ligurian earthquake (western Mediterranean) from macroseismicity, active tectonics and tsunami modelling
- 09:00–09:15 EGU2012-2634
E. Bufoin, C. Pro, M. Bezzeghoud, and A. Udias
Mechanism of 2003, 2007 and 2009 earthquakes (S. Vicente Cape) and implications for the 1755 Lisbon earthquake.
- 09:15–09:30 EGU2012-13242
R. M. L. Ferreira, D. Conde, R. Canelas, and M. A. Baptista
Mathematical modeling of a tsunami propagating over the mobile bed reaches of the Tagus-Coia estuary
- 09:30–09:45 EGU2012-13267
S. Riquelme, S. Ruiz, Y. Yamazaki, and J. Campos
Fault Parameters of the 1868 and 1877 earthquakes, inferred from historical records: Run-up measurements, Isoleismals and coseismic deformation

- 09:45–10:00 EGU2012-3638
Z. Zarifi and M. Raeesi
 Revisiting the November 27, 1945 Makran (Mw=8.2) interplate earthquake

COFFEE BREAK

Chairperson: n.n.

- 10:30–10:45 EGU2012-10297
A. Fuenzalida, H. Lyon-Caen, M. Lancieri, A. Rietbrock, and R. Madariaga
 The 2010 Maule earthquake: How far south did it break?
- 10:45–11:00 EGU2012-3844
C.-S. Lee, F. Klingelhoefer, M. Gutscher, M. Miller, and V. Gallardo
 The Aftershock Analyses of 27 February 2010 Chile M=8.8 Mega Earthquake
- 11:00–11:15 EGU2012-5501
M. Ando, M. Ishida, Y. Nishikawa, C. Mizuki, and Y. Hayashi
 What caused a large number of fatalities in the Tohoku earthquake?
- 11:15–11:30 EGU2012-3542
K. Satake, Y. Fujii, T. Harada, and Y. Namegaya
 Tsunami source model of the 2011 Tohoku earthquake and comparison with the 1896 Sanriku and 869 Jogan earthquakes
- 11:30–11:45 EGU2012-4273
Y. Ohta, R. Hino, D. Inazu, M. Ohzono, M. Mishina, J. Nakajima, Y. Ito, T. Sato, Y. Tamura, H. Fujimoto, K. Tachibana, T. Demachi, Y. Osada, M. Shinohara, and S. Miura
 Co- and postseismic slip distribution for the 2011 March 9 earthquake based on the geodetic data: Role on the initiation of the 2011 Tohoku earthquake
- 11:45–12:00 EGU2012-13168
H. M. Fritz, D.A. Phillips, A. Okayasu, T. Shimozone, H. Liu, F. Mohammed, V. Skanavis, C.E. Synolakis, and T. Takahashi
 2011 Japan tsunami survivor video based hydrograph and flow velocity measurements using LiDAR

SM2.1/GD1.3/NH4.9/TS8.5 – Large Earthquake and Tsunami Activity (co-organized) – Posters

Convener: M. Bezzeghoud | Co-Conveners: E. Bufo, H. Hebert, H. M. Fritz

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 15:30–17:00

Chairperson: n.n.

- XY467 EGU2012-11641
D. Tappin
 The impact of the 2011 Tohoku-oki tsunami in the Sendai area: interpretations of time series satellite images and videos.
- XY468 EGU2012-11588
A. Yalciner, F. Imamura, E. Mas, I. Necmioglu, C. Ozer, A. Zaytsev, S. Takahashi, T. Tomita, G. Yon, N. Kalligeris, H. Fritz, V. Skanavis, C. Synolakis, and N. Meral Ozel
 Field survey of the coastal impact of the March 11, 2011 great East Japan tsunami
- XY469 EGU2012-10999
V.E. Kunitsyn, I. A. Nesterov, S.L. Shalimov, B.Yu. Krysanov, A.M. Padokhin, and D. Rekenhaller
 Japan Tohoku Earthquake of March 11, 2011: GPS-TEC Evidence for the Ionospheric Disturbances with Application for Early Warning
- XY470 EGU2012-8986
H. Shimazu
 Geomorphic impacts of the 2011 tsunami on the lower reaches of the R. Natori, northeast Japan
- XY471 EGU2012-7238
J.S. Hwang, D.H. Lee, H.S. Yun, and B.I. Min
 Seismic Displacement Analysis of GPS Permanent Stations due to the Tohoku-Oki Mega-thrust Earthquake in Korea and Asian Regions
- XY472 EGU2012-6577
T. Harada and K. Satake
 A New View on the Space-Time Pattern of M>7 Earthquakes in the Northern Japan to Kurile Subduction Zones
- XY473 EGU2012-3916
A. Nishiyama, K. Satake, T. Yata, A. Urabe, and Y. Maejima
 The trial edition of historical earthquake data base in Japan

- XY474 EGU2012-11402
F. Waldhauser, D.P. Schaff, T.C. Diehl, and E.R. Engdahl
Splay faults imaged by fluid-driven aftershocks of the 2004 Mw 9.2 Sumatra-Andaman earthquake
- XY475 EGU2012-2363
J.-Y. Lin, C.-L. Lo, J.-C. Sibuet, and S.-K. Hsu
Crustal gravitational potential energy change induced by the Great Sumatra-Andaman earthquake of 26 December 2004
- XY476 EGU2012-3854
H. Haridhi, S. Rizal, M. Ridha, and C.S. Lee
A Seismic Gap Study in the western offshore of Sumatra, Indonesia
- XY477 EGU2012-182
W. Renteria
Tsunami Forecast for Galapagos Islands
- XY478 EGU2012-3588
P.-Y. Lai, B. F. Chao, E. T.-Y. Chang, and T.-R. Wu
The Seismic Sources of the 2009 Samoa Earthquake from Tsunami Simulation
- XY479 EGU2012-4910
M. A. Baptista, J.M Miranda, J. Batlo, and H. Ferreira
Tsunami flooding along Tagus estuary, Portugal, the 1531 event
- XY480 EGU2012-8821
S. Allgeyer, C. Daubord, H. Hébert, A. Loevenbruck, F. Schindelé, and R. Madariaga
Could a 1755-like tsunami reach the French Atlantic coastline? Constraints from 20th century observations and numerical modeling.
- XY481 EGU2012-5829
G. Kulikova and F. Krüger
The 1911 Chon-Kemin (M 8.3) earthquake in the Tien-Shan region*: preliminary investigation results by means of historical data.
- XY482 EGU2012-11649
M. Karpytchev, C. Daubord, H. Hebert, and G. Woppelmann
Re-analysis of the Krakatoa Tsunami Records along the European Atlantic Coast
- XY483 EGU2012-12291
K. Hodgkinson, **D. Mencin**, A. Borsa, B. Henderson, and W. Johnson
Tsunami Signals Recorded By Plate Boundary Observatory Borehole Strainmeters
- XY484 EGU2012-10
S. Nakamura
Note to Energy Source of Tsunami Earthquake on the Planet Earth
- XY485 EGU2012-4969
L. Ostrihansky
Earthquake triggering, Earth's rotation variations, Meton's cycle and torques acting on the Earth.

NH9.9 – Natural hazard impact on technological systems and urban areas – Orals

Convener: E.G. Petrova | Co-Conveners: E. Krausmann, M. Naranjo, C. Arregoitia

Room: 7

Chairperson: Elena Petrova, Maria Naranjo

- 15:30–15:45 EGU2012-890
E.G. Petrova
Natural hazard impact on the technosphere: “blackouts”
- 15:45–16:00 EGU2012-3646
N. Frolova, V. Larionov, and J. Bonnin
Seismic risk assessment at local level taking into account possible technological accidents
- 16:00–16:15 EGU2012-3952
T. Tutnova
Natural Disasters and Safety Risks at Nuclear Power Stations
- 16:15–16:30 EGU2012-5496
S. Gavrilova
The criteria of natural disasters, caused by hydro-meteorological natural phenomena in winter period in different urban regions of Russia
- 16:30–16:45 EGU2012-6041
E. Krausmann and A.M. Cruz
Impact of the 11 March, 2011, Tohoku earthquake and tsunami on the chemical industry
- 16:45–17:00 EGU2012-14234
Al. Ozunu and C. Botezan
Vulnerability assessment and risk perception: the case of the Arie? River Middle Basin

NH9.9 – Natural hazard impact on technological systems and urban areas – Posters

Convener: E.G. Petrova | Co-Conveners: E. Krausmann, M. Naranjo, C. Arregoitia

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Elena Petrova, Carla Arregoitia Sarabia

- XY266 EGU2012-10254
M. Naranjo
Hurricane-driven floods in Mexico City
- XY267 EGU2012-14363
C.A. Arregoitia Sarabia
The look of into Desalination and Natural Hazard
- XY268 EGU2012-10587
C. Michellier, M. Dramaix, S.R. Arellano, F. Kervyn, and J.B. Kahindo
The human health impact of Nyiragongo and Nyamulagira eruptions on Goma city and its surrounding area
- XY269 EGU2012-2822
A.-D. Gheorghiu and A. Ozunu
Systematic risk assessment methodology for critical infrastructure elements - Oil and Gas subsectors
- XY270 EGU2012-12576
S. Gavrilova and E.G. Petrova
Problems of mapping natural hazard impact on technological systems and urban areas
- XY271 EGU2012-6400
A.L. Shnyparkov, E.G. Petrova, T.V. Vashchalova, S.A. Gavrilova, A.V. Danilina, and V.V. Gryaznova
Influence of natural and technological emergency situations on tourism and sustainable development in St.Petersburg and Leningrad region (Russia)
- XY272 EGU2012-11562
D. Sideri, D. Rozos, C. Loupasakis, and D. Kotsanis
New Data on Land Subsidence Phenomena Due to Excessive Ground Water Withdrawal in the Western Thessaly Basin, Central Greece
- XY273 EGU2012-13351
V. Nevrlý, P. Bitala, P. Danihelka, P. Dobeš, J. Dlabka, T. Hejzlar, B. Baudišová, D. Mířek, and Z. Zelinger
Predicting the formation and the dispersion of toxic combustion products from the fires of dangerous substances
- XY274 EGU2012-12613
P. Dobes, P. Danihelka, S. Janickova, J. Marek, S. Bernatikova, J. Suchankova, B. Baudisova, L. Sikorova, and P. Soldan
Ecotoxicity of waste water from industrial fires fighting
- XY275 EGU2012-14248
A. Petrova
Shimoda 1854: Historical Consequences of a Natural Disaster
- XY276 EGU2012-11811
M. Faruolo, I. Coviello, A. Falconieri, T. Lacava, N. Pergola, and V. Tramutoli
Rapid detection of flooded areas after Tohoku March 2011 tsunami
- XY277 EGU2012-3500
O. Girina and Ch. Neal
Kamchatkan Volcanic Eruption Response Team (KVERT), Russia: preventing the danger of volcanic eruptions to aviation.

Wednesday, 25 April

GI2.5 – Preparatory activities for the scientific utilisation of the GMES Sentinel satellites constellations including Cal/Val activities of their optical instruments. (co-listed) – Orals

Convener: M. Berger | Co-Conveners: J. Aschbacher, H. Mortimer, B. Bojkov

Room: 42

Chairperson: Michael Berger & Hugh Mortimer

- 08:30–08:45 EGU2012-7324
S.C. Wagner, T. Hewison, R.A. Roebeling, M. Koenig, J. Schulz, and P. Miu
 An Introduction to the Global Space-based Inter-Calibration System from a EUMETSAT Perspective
- 08:45–09:00 EGU2012-7966
E. Johansson and K.-G. Karlsson
 An Intercomparison of AVHRR, MERIS, AATSR and MODIS radiances using a SNO approach
- 09:00–09:15 EGU2012-3082
G. Zibordi, F. Mélin, and J.-F. Berthon
 Trends and Intra-annual variations of spectral biases in multi-mission remote sensing primary ocean color products at a coastal site
- 09:15–09:30 EGU2012-6112
D. Smith, B. G. Latter, and C. Poulsen
 Providing Consistent (A)ATSR Solar Channel Radiometry for Climate Studies
- 09:30–09:45 EGU2012-4704
H. Bonekamp, A. O'Carroll, E. Kwiatkowska, F. Montagner, H. Wilson, V. Fournier Sicre, V. Santacesaria, and C. Loddó
 EUMETSAT activities in preparation of the Sentinel-3 Marine Centre
- 09:45–10:00 EGU2012-7042
A. Bracher, T. Dinter, M. Altenburg Soppa, B. Taylor, and V. Rozanov
 Using OLCI/Sentinel-3 and Sentinel-5-P data synergistically for retrieving different phytoplankton groups from space

COFFEE BREAK

Room: 7

Chairperson: Josef Aschbacher & Michael Berger

- 10:30–10:45 EGU2012-4381
J. Aschbacher and M.P. Milagro-Perez
 GMES Space Component: Programme overview
- 10:45–11:00 EGU2012-13148
M.W. Hansen, J.A. Johannessen, B. Chapron, and K.-F. Dagestad
 Monitoring the surface inflow of Atlantic Water to the Norwegian Sea using Synthetic Aperture Radar
- 11:00–11:15 EGU2012-6569
P.F. Levelt, J.P. Veefkind, M. van Weele, E.A.A. Aben, C. Clerbaux, and T. Phulpin
 Exploiting Sentinel 5's synergy with IRS and 3MI on METOP-SG for Protocol Monitoring and Air Quality-Climate Interaction
- 11:15–11:30 EGU2012-7550
R. Engelen, V.-H. Peuch and the MACC-II Team
 The use of Sentinel satellite data in the MACC-II GMES pre-operational atmosphere service
- 11:30–11:45 EGU2012-4087
 J. A. Sobrino, J. C. Jimenez-Muñoz, A. Ruescas, C. Brockmann, **A. Heckel**, P.R.J. North, J.J. Remedios, G. Darren, C. Merchant, M. Berger, G. Soria, and O. Danne
 Land Surface Temperature retrieval from Sentinel 2 and 3 Missions: a conceptual framework
- 11:45–12:00 EGU2012-7619
 S. Bontemps, **P. Defourny**, J. Radoux, V. Kalogirou, and O. Arino
 Global land cover products tailored to the needs of the climate modeling community - Land Cover project of the ESA Climate Change Initiative

NH1.1/AS1.16 – Extreme meteorological and hydrological events induced by severe weather and climate change (co-organized) – Orals

Convener: A. Loukas | Co-Conveners: U. Ulbrich, M.C. Llasat

Room: D

Chairperson: M.C. Llasat

- 08:30–08:45 EGU2012-242
K. A. Reed, M. F. Wehner, and C. Jablonowski
 Towards the Direct Simulation of Tropical Cyclones in the High-Resolution Community Atmosphere Model
- 08:45–09:00 EGU2012-1311
B. D. Malamud and D.L. Turcotte
 Statistics of Severe Tornadoes and Severe Tornado Outbreaks
- 09:00–09:15 EGU2012-3119
R.M. Trigo, F. Varino, J. Vaquero, and M.A. Valente
 Atmospheric circulation leading to record breaking precipitation and floods in southern Iberia in December 1876
- 09:15–09:30 EGU2012-8647
A. Comellas, E. Fiori, L. Molini, F. Pignone, N. Rebora, F. Silvestro, F. Siccardi, and A. Parodi
 Cloud-permitting simulation of the torrential rainfall event in Genoa (Liguria, Italy) on November 4th, 2011
- 09:30–09:45 EGU2012-9617
I. Yucel and A. Onen
 Evaluating the extreme precipitation events using a mesoscale atmosphere model
- 09:45–10:00 EGU2012-44
Y. Tramblay, W. Badi, F. Driouech, S. El Adlouni, L. Neppel, and E. Servat
 Climate change effects on extreme precipitation events in Morocco

COFFEE BREAK

Chairperson: U. Ulbrich

- 10:30–10:45 EGU2012-7741
M.C. Llasat, R. Marcos, and M. Turco
 Is convective precipitation increasing? The case of Catalonia
- 10:45–11:00 EGU2012-1990
K. Breinl
 Pluvial and fluvial flooding: integration in probabilistic flood hazard assessment using a coupled rainfall-discharge generator
- 11:00–11:15 EGU2012-4662
D. Panagoulia, I. Trichakis, and G. J. Tsekouras
 Flow Forecasting via Artificial Neural Networks - A Study for Input Variables conditioned on atmospheric circulation
- 11:15–11:30 EGU2012-7157
Y.J. Kwak, K. Takeuchi, K. Fukami, and J. Magome
 Assessment of Flood Risk and Future Change due to Climate Change in Asia-Pacific Region Based on MRI-GCM Model
- 11:30–11:45 EGU2012-8967
M. Velasco, A. Cabello, A. Barrera-Escoda, P.A. Versini, and M. Zappa
 Application of a rule-based system for flash flood forecasting taking into account climate change in the Llobregat basin
- 11:45–12:00 EGU2012-12156
V. Ntegeka, P. Willems, and J. Monbaliu
 On the relative importance of the climate change factors along the river Scheldt considering climate scenarios for upstream inland and downstream coastal (mean sea level and surge) boundary conditions

LUNCH BREAK

Chairperson: A. Loukas

- 13:30–13:45 EGU2012-13060
H. von Waldow and O. Martius
 Joint probabilities of extreme precipitation and wind gusts in Germany
- 13:45–14:00 EGU2012-1892
Z. Zhang, C. Xu, X. Chen, and Y. Hong
 The characteristics of global droughts and ENSO teleconnections

- 14:00–14:15 EGU2012-7257
B. Kurnik, L. Kajfez - Bogataj, and A. Jol
 Analyzing uncertainties of climate impacts on the water deficit in agriculture soil over Europe
- 14:15–14:30 EGU2012-13870
G. Di Baldassarre
 Evaluating the benefits of risk prevention initiatives
- 14:30–14:45 EGU2012-2796
L.A.T. Machado, J. Sukaragi, C. Freitas, W. Escobar, and C. Angelis
 Pilot Project for Early Warning; The CHUVA-SOS
- 14:45–15:00 EGU2012-5808
H. Held, F.-W. Gerstengarbe, F. Hattermann, J. G. Pinto, U. Ulbrich, U. Böhm, K. Born, M. Büchner, M. G. Donat, M. Kücken, G. C. Leckebusch, K. Nissen, T. Nocke, H. Österle, T. Pardowitz, P. C. Werner, O. Burghoff, U. Broecker, and A. Kubik
 Future projections of insured losses in the German private building sector following the A1B climatic change scenario

NH1.1/AS1.16 – Extreme meteorological and hydrological events induced by severe weather and climate change (co-organized) – Posters

Convener: A. Loukas | Co-Conveners: U. Ulbrich, M.C. Llasat

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 15:30–17:00

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

- XY180 EGU2012-95
O. Martius, H. Sodemann, H. Joos, S. Pfahl, A. Winnschall, M. Croci-Maspoli, M. Graf, E. Madonna, B. Mueller, S. Schemm, J. Sedlacek, M. Sprenger, and H. Wernli
 On the dynamics of the July 2010 Pakistan precipitation events and the central role of land surface - atmosphere interactions
- XY181 EGU2012-541
G. Wong, D. Maraun, and M. Vrac
 Stochastic bias correction for mean and extreme precipitation
- XY182 EGU2012-2949
L. Campo and F. Caparrini
 The effects of future climate on the flow regime in Tuscany: a numerical simulation with the distributed hydrological model MOBIDIC
- XY183 EGU2012-3126
F. Varino, R.M. Trigo, and J.L. Zêzere
 Reassessing the impacts and the atmospheric circulation of the large storms over Portugal
- XY184 EGU2012-4097
B. Gräler, S. Vandenberghe, M.J. van den Berg, S. Grimaldi, A. Petroselli, B. De Baets, and N.E.C. Verhoest
 Multivariate Return Periods based on Vine Copulas
- XY185 EGU2012-4726
S. Ahmad, T. Koike, and K. Nishii
 A Study on Extremely Dry and Wet Summer Monsoon in Pakistan by Focusing on the Anomalous States of the Upper Troposphere
- XY186 EGU2012-4812
M. Kallache
 Drought assessment in the Duero basin (Central Spain) by means of multivariate extreme value statistics
- XY187 EGU2012-5188
M. Nied, T. Pardowitz, K. Nissen, Y. Hundechea, B. Merz, and U. Ulbrich
 Elbe floods: An interaction of hydrological and meteorological (pre-)conditions
- XY188 EGU2012-5358
S. Pfahl
 Quantifying the relevance of local blockings for temperature extremes on sub-daily to daily time scales
- XY189 EGU2012-5490
Z. Popova, M. Ivanova, L.S. Pereira, V. Alexandrov, K. Doneva, P. Alexandrova, and M. Kercheva
 Drought vulnerability quantification in Bulgaria through modeling crop productivity and irrigation requirements
- XY190 EGU2012-5871
M. Biafore, L. Cristiano, S. Gentile, M. Gentilella, M. Giannattasio, and F. Napoli
 The 2010 flood in the Sele river basin (Southern Italy)
- XY191 EGU2012-5978
Y. Huang, Y. Qian, Y. Yao, and D. Huang
 Impact of the inhomogeneous temperature variation on the extreme precipitation events in East China

- XY192 EGU2012-7208
N. Kawano, S. Sobue, M. Shimada, and K. Ohyoshi
Flood disaster monitoring in Thailand by using a airborne L-band SAR: Polarimetric and interferometry Synthetic Aperture Radar with L-band(Pi-SAR-L)
- XY193 EGU2012-7681
V. Potop, C. Boronean?, M. Mozny, P. Stepanek, and P. Skalak
Observed evolution of drought episodes assessed with the Standardized Precipitation Evapotranspiration Index (SPEI) over the Czech Republic
- XY194 EGU2012-7683
A. Bonazzi, E. Bellone, and S. Khare
The probability of tropical cyclone landfalls in Western North Pacific
- XY195 EGU2012-7787
Sj Chyi, Jw Lin, and Ml Hsieh
The temporal and spatial characteristics of river accumulation events from LIA(Little Ice Age) in Taiwan
- XY196 EGU2012-8577
T. D. Hewson
The sting jet that roared - a remarkable windstorm crosses Scotland
- Hall X/Y | Display Time 08:00–19:30**
Author in Attendance: 17:30–19:00
Chairperson: M.C. Llasat, U. Ulbrich, A. Loukas
- XY197 EGU2012-9328
J. Hosek
Calculation of extreme wind climate for landscape modelling
- XY198 EGU2012-9330
M. Lakatos, A. Móring, T. Szentimrey, Á. Németh, Z. Bihari, T. Kovács, and E. Vincze
Identifying areas with high risk of wind gusts, precipitation and hail based on interpolated and recorded data in Hungary
- XY199 EGU2012-9714
I. Zveryaev, Yu. Zyulyaeva, S. Gulev, and P. Koltermann
Intercomparison of the Russian Summer Heat Waves of 2010 and 1972
- XY200 EGU2012-9938
Y. Yulizar, S. Kumar Singh, and A. Bárdossy
Study of Changes in the Frequencies of Unusual Hydrological and Meteorological Events
- XY201 EGU2012-10380
P.-L. Lin, W.-K. Tao, and C.-Y. Chen
The impact of Microphysics and Data assimilation on simulation of Typhoon Morakot
- XY202 EGU2012-10919
H. Zhang and K. Fraedrich
Greatest point rainfall related to duration: Scaling and multifractal analysis in climate model simulations
- XY203 EGU2012-11462
A. Amiri Farahani, D. Maraun, and J. Luterbacher
Predictors for local daily precipitation extremes in Germany representing the general atmospheric circulation
- XY204 EGU2012-12114
C. Dessy, L. Di Carlo, G. Fois, P. Fiorucci, M. d'Andrea, and E. Trasforini
Operational setup of a diagnostic chain, implemented within the Proterina-C project, to include weather measures in the RISICO system for dynamic wildfire risk evaluation in Sardinia (Italy)
- XY205 EGU2012-12662
F.E.L. Otto, M.R. Allen, A. Bowery, J. Imbers, R. Jones, N. Massey, J. Miller, S. Rosier, C. Rye, M. Thurston, S. Wilson, and H. Yamazaki
Attribution of precipitation changes in African rainforest
- XY206 EGU2012-12856
A. Yatagai, H. Nakamura, T. Miyasaka, and K. Okumiya
Meteorological Conditions Related to the August 2010 Flood Event in Ladakh, in the West Himalayas
- XY207 EGU2012-13317
H. Ágústsson, Á. J. Elíasson, E. Thorsteins, Ó. Rögnvaldsson, and H. Ólafsson
Atmospheric icing of structures: Observations and simulations
- XY208 EGU2012-13688
M.O. Jonassen, H. Ágústsson, and H. Ólafsson
Sensitivity of atmospheric gravity waves to surface roughness and surface heat fluxes
- XY209 EGU2012-13802
G. Lysitsa, **A. Loukas**, and L. Vasiliades
A stochastic bias-corrected downscaling method for climate change impacts assessment on droughts

- XY210 EGU2012-14304
E. Fiori, C. Keil, A. Parodi, N. Rebora, and G.C. Craig
 Dynamical downscaling of severe hydrometeorological events: the role of a stochastic parameterization for convection
- XY211 EGU2012-14362
M. Fiorini, R. Rudari, L. Candela, A. Corina, and G. Boni
 Added value flooding products coupling hydraulic modeling and COSMO Sky-Med SAR imagery

HS4.1/GM7.8/NH1.7 – Flash floods: processes, forecasting and risk management (co-organized) – Orals

Convener: M. Borga | Co-Conveners: G. T. Aronica, G. Blöschl, J. Szolgay, J. J. Gourley, E. Gaume, J. Boardman

Room: 39

Chairperson: Marco Borga

- 08:30–08:45 EGU2012-8894
 F. Pignone, **N. Rebora**, and F. Silvestro
 Estimation of rainfall field by combining radar data and raingauge observations: the modified conditional merging technique
- 08:45–09:00 EGU2012-11734
F. Marra and E. Nikolopoulos
 Radar rainfall estimation as a support for the hydro-meteorological analysis of debris flow and flash flood events
- 09:00–09:15 EGU2012-4682
P.J. Smith, K. Beven, and L. Panziera
 Flash flood forecasting using simplified hydrological models, radar rainfall forecasts and data assimilation
- 09:15–09:30 EGU2012-13404
E.I. Nikolopoulos, D. Zoccatelli, and E.N. Anagnostou
 Mapping storm velocity over catchments: Distribution and scale dependence for flash flood-inducing storms.
- 09:30–09:45 EGU2012-1619
J. Boardman
 Flash Flooding and 'Muddy Floods' on Arable Land
- 09:45–10:00 EGU2012-12846
K. Larnier, H. Roux, P. Garambois, and D. Dartus
 Data assimilation method for real-time flash flood forecasting using a physically based distributed model

COFFEE BREAK

Chairperson: John Boardman

- 10:30–10:45 EGU2012-7145
D. Defrance, P. Javelle, P. Arnaud, and V. Andréassian
 Flash flood warning at ungauged locations: can proxy data be useful to calibrate the hydrological model used?
- 10:45–11:00 EGU2012-5721
A. Bronstert, B. Creutzfeldt, T. Graeff, I. Hajnsek, M. Heistermann, S. Itzerott, T. Jagdhuber, D. Kneis, E. Lück, D. Reusser, and E. Zehe
 Potentials and constraints of different types of soil moisture observations for flood simulations in headwater catchments
- 11:00–11:15 EGU2012-6535
G. Werren, D. Balin, E. Reynard, and S. N. Lane
 Flash flood hazard assessment through modelling in small semi-arid watersheds. The example of the Beni Mellal watershed in Morocco
- 11:15–11:30 EGU2012-3045
M. Calianno, I. Ruin, and J.J. Gourley
 The use of SHAVE and NWS flash flood reports for impact characterization and prediction
- 11:30–11:45 EGU2012-11730
G. Brigandi, G.T. Aronica, G. Basile, L. Pasotti, and M. Panebianco
 An experimental operative system for shallow landslide and flash flood warning based on rainfall thresholds and soil moisture modelling
- 11:45–12:00 EGU2012-6889
T. Yamakoshi, Y. Nakano, T. Ishizuka, K. Tamura, and Y. Hasegawa
 Time Sequence on the Flash Flood Disaster in the Tsurugi River, Hofu City, in Japan

HS4.1/GM7.8/NH1.7 – Flash floods: processes, forecasting and risk management (co-organized) – Posters

Convener: M. Borga | Co-Conveners: G. T. Aronica, G. Blöschl, J. Szolgay, J. J. Gourley, E. Gaume, J. Boardman

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: E. Nikolopoulos

- A139 EGU2012-991
L. D. Donado, E. Bravo, and R. O. Ortiz
A proposal for mitigation of floods in main colombian rivers
- A140 EGU2012-2768
J.L. Ruiz-Bellet, J.C. Balasch, J. Tuset, and **D. Vericat**
Flash floods reconstruction from historical data in the ungauged Ondara River basin at Tàrraga (NE Iberian Peninsula)
- A141 EGU2012-3606
Z.-Y. Feng, S.-C. Chen, C.-W. Kao, and C.-M. Lo
A numerical simulation of overflow failure of landslide dams by particle flow technique
- A142 EGU2012-3757
M. Merheb, C. Abdallah, and N. Baghdadi
Flash flood modeling in semiarid regions - NE Lebanon as a case study
- A143 EGU2012-4127
V.I. Arghius, A. Ozunu, I. Samara, and Gh. Rosian
Results of the post flash-flood disaster investigation occurred in the Transylvanian Depression during the last decade (2001-2010)
- A144 EGU2012-7558
D. Bertermann, C. Bialas, and A. Zacherl
An expeditious risk analysis of intense rainfall events in low mountain ranges of Central German Uplands under the aspect of a sustainable and decentralised flood retention
- A145 EGU2012-9010
K. Hlavčová, S. Kohnová, K. Jeneiová, O. Horvát, L. Blaškovičová, and J. Szolgay
Estimation of flash floods on SvacenicĀ½ and DebernĀ½ky Creeks in Slovakia
- A146 EGU2012-7802
C. Abon, M. Heistermann, D. Kneis, and A. Bronstert
Hydrologic simulations using rainfall radar data for flood forecasting in Marikina River Basin, Philippines
- A147 EGU2012-9148
J. Moravcová, T. PavlíĀ½ek, M. Koupilová, P. Ondr, and T. KvĀ½itek
Modeling of runoff conditions in the pasture sites of small catchments
- A148 EGU2012-9437
C. Ruch, **C. Reszler**, G. Rock, and M. Plieschnegger
Flash Flood Warning System - One Model, Two Methods
- A149 EGU2012-11084
D. Zoccatelli
Roles of hillslope processes and river network routing in the hydrologic response to spatially variable rainfall fields
- A150 EGU2012-11287
B. Bhattacharya and A. Suman
Flash flood characterisation of the Haor area of Bangladesh
- A151 EGU2012-12112
F. Ciervo, M.N. Papa, V. Medina, and A. Bateman
Reconstruction and numerical modelling of a flash flood event: Atrani 2010
- A152 EGU2012-12230
P. Tarolli, G.T. Aronica, D. Penna, M. Borga, and G. Brigandi
Shallow landslides and debris flows triggering and rainfall thresholds using a quasi-dynamic wetness index: a case study in Sicily
- A153 EGU2012-12777
A. Cavallo, S. Gabellani, R. Rudari, and F. Silvestro
An Hydrological Description of the 4th November 2011 event in Genoa
- A154 EGU2012-13864
S. Schnabl, M. Brilly, N. Humar, and A. KryĀ½anowski
Structural measures to cope with floods: KULTURisk case studies
- A155 EGU2012-14480
F. Marra and D. Zoccatelli
Design of rain gauge networks for flash flood prediction: assessment based on spatial moments of catchment rainfall
- A156 EGU2012-13657
C. Fouchier, P. Javelle, P. Arnaud, and D. Defrance
Comparison of different routing functions in the AIGA flood forecasting method for ungauged watersheds.

- A157 EGU2012-11393
P-A Garambois, H Roux, K Larnier, and D Dartus
 Flash flood modelling for ungauged catchments

NH3.6 – Advanced methods in landslides research II: modelling – Orals

Convener: G. G.R. IOVINE | Co-Conveners: D. Cohen

Room: 4

Chairperson: Cohen D. and Iovine G.

- 08:30–08:45 EGU2012-6905
E. R. Stefanescu, A. Patra, M Bursik, and M. F. Sheridan
 Feature Based Error model construction for Digital Elevation Models and Hazard Analysis
- 08:45–09:00 EGU2012-2131
J. Rohmer and E. Foerster
 Global sensitivity analysis of complex numerical landslide models based on Gaussian-Process meta-modelling
- 09:00–09:15 EGU2012-2837
M. Tonini, A. Pedrazzini, I. Penna, and M. Jaboyedoff
 Spatial pattern characterization of landslides in Swiss Rhone Valley
- 09:15–09:30 EGU2012-4078
S.-h. Chiang, D. Bellugi, K.-t Chang, and W.E. Dietrich
 A New Shallow Landslide Model for Predicting the Location, Timing, Size and Landslide Runout
- 09:30–09:45 EGU2012-7610
P. Lehmann, J. von Ruetten, and D. Or
 Effect of soil heterogeneity on precursor events and landslide patterns
- 09:45–10:00 EGU2012-12864
Z. Liu, H. Koyi, F. Nilfouroushan, J. Swantesson, and Y. Reshetuyuk
 Internal deformation within an unstable granular slope: insights from physical modeling

NH3.6 – Advanced methods in landslides research II: modelling – Posters

Convener: G. G.R. IOVINE | Co-Conveners: D. Cohen

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Cohen D. and Iovine G

- XY212 EGU2012-13122
D. Termini
 Flow characteristics of a channelized debris-flow and implications in numerical modelling: a study case
- XY213 EGU2012-3850
 C.-W. Shen, W.-C. Lo, C.-Y. Hsiao, B.-H. Ku, and **Y.-C. Chen**
 Characteristics of Debris Flow-inducing Factors in Typhoon Morakot Affected Area— An Examination of the Topographic factors, rainfall intensity and Landslide Rate
- XY214 EGU2012-3731
B. Haddad, J.J. Zamorano, M. Pastor, N. Andrés, L.M. Tanarro, and D. Palacios
 Lahars simulation and field calibration in Popocatepetl Volcano (Mexico)
- XY215 EGU2012-12593
H.Y. Hussin, B. Quan Luna, C.J. van Westen, M. Christen, J.-P. Malet, and Th. W. J. van Asch
 Assessing the debris flow run-out frequency of a catchment in the French Alps using a parameterization analysis with the RAMMS numerical run-out model
- XY216 EGU2012-4043
Y.-C. Chen, Y.-J. Chiu, Y.-H. Wu, H.-Y. Lee, and C.-W. Shen
 Combination of landslide volumes estimation and debris flow simulation in the Xinkai village, southern Taiwan
- XY217 EGU2012-10069
 E Damiano, M. Giorgio, **R. Greco**, A. Guida, N. Netti, L. Olivares, and V. Savastano
 An integrated tool for real time prediction of hydrological response of steep-slopes in shallow pyroclastic deposits
- XY218 EGU2012-3368
I. Penna, S. Daicz, S. Zlotnik, M.-H. Derron, and M. Jaboyedoff
 Natural dam failure in the eastern slope of the Central Andes of Argentina. Numerical modelling of the 2005 Santa Cruz river outburst flood
- XY219 EGU2012-10620
H.-F. Lei, C.-H. Jen, S.-J. Chyi, and M.-Y. Shei
 The spatial characteristics of mass movements in Chishan catchment after Typhoon Morakot

- XY220 EGU2012-12219
G. Martelloni, E. Massaro, and F. Bagnoli
Computational modelling for landslide: molecular dynamic 2D application to shallow and deep landslides
- XY221 EGU2012-826
F E Taylor and B D Malamud
The Statistical Distributions of Landslide Length to Width Ratios
- XY222 EGU2012-6555
M. Schwarz and D. Cohen
Influence of vegetation on the triggering mechanism of shallow landslides: a review.
- XY223 EGU2012-8057
M. Mergili, I. Marchesini, W. Fellin, M. Rossi, S. Raia, and F. Guzzetti
A three-dimensional slope stability model based on GRASS GIS and its application to the Collazzone area, Central Italy
- XY224 EGU2012-11262
C. Gassner, H. Petschko, R. Bell, and T. Glade
Effect of lithological data of different scales on modelling landslide susceptibility maps
- XY225 EGU2012-5683
E. Piegari and R. Di Maio
Geotechnical vs. Geophysical models for slope stability
- XY226 EGU2012-1013
A. Maghsoudloo and N. Huvaj
Prediction of landslide movements and its relation to damage in structures
- XY227 EGU2012-2028
C. Mignelli and D. Peila
Proposal of a management method of rockfall risk induced on a road
- XY228 EGU2012-11233
R. Passalacqua and R. Bovolenta
IHG: an Integrated Hydrological-Geotechnical model for large landslides' susceptibility assessments
- XY229 EGU2012-3393
Sc D. Cuanalo Oscar, Sc D. Oliva Aldo, and M. E. Polanco Gabriel
Landslides geotechnical analysis. Qualitative assessment by valuation factors

NH3.8 – Prediction and forecasting of landslides – Orals

Convener: F. Catani | Co-Conveners: F. Guzzetti, N. Huvaj

Room: 4

Chairperson: Filippo Catani, Nejan Huvaj

- 10:30–10:45 EGU2012-5623
M. Berti, M. Martina, S. Franceschini, S. Pignone, A. Simoni, and M. Pizziolo
Probabilistic rainfall thresholds for landslide occurrence using a Bayesian approach
- 10:45–11:00 EGU2012-2397
J. Rohmer and T. Dewez
What if the power-law model did not apply for the prediction of very large rockfall events?
- 11:00–11:15 EGU2012-4103
I. Kleivane, H. Colleuille, L.E. Haugen, P. Alve Glad, and G. Devoli
Debris flow early warning systems in Norway: organization and tools
- 11:15–11:30 EGU2012-8043
S. Bernardie, N. Desramaut, G. Russo, and G. Grandjean
Prediction of changes in landslide movements induced by rainfalls: from the use of a black box model to a 1D mechanical model
- 11:30–11:45 EGU2012-11914
I. Sandric, Y. Petropoulos, Z. Chitu, and B. Mihai
Bayesian analysis of uncertainty in predisposing and triggering factors for landslides hazard assessment
- 11:45–12:00 EGU2012-2374
Z. Bednarczyk
Prediction of landslide activation at locations in Beskid Mountains using standard and real-time monitoring methods

NH3.8 – Prediction and forecasting of landslides – Posters

Convener: F. Catani | Co-Conveners: F. Guzzetti, N. Huvaj

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Fausto Guzzetti, Nejan Huvaj

- XY230 EGU2012-5951
D. Carrea, A. Abellan, and M. Jaboyedoff
Understanding pre-failure deformation in non-cohesive soils using analogue models
- XY231 EGU2012-4333
G. Vessia and M. Parise
A stationary criterion to identify the duration of efficient rainfalls to trigger shallow landslide
- XY232 EGU2012-5469
L. Montrasio, R. Valentino, and **A. Terrone**
Regional scale analysis and prediction of shallow landslides induced by rain, occurred in the Emilian Apennines, northern Italy.
- XY233 EGU2012-13051
G. Capparelli, D.L. De Luca, and P. Versace
The FlaIR regional model in landslide early warning.
- XY234 EGU2012-6908
L.W. Wei, C.M. Huang, W.K. Huang, H.H. Lin, C.C. Chi, C.T. Cheng, C.M. Lo, and S.Y. Chi
Rainfall threshold for the initiation of debris slide in Taiwan
- XY235 EGU2012-11325
M. Jaboyedoff, J. Demierre, and B. Rudaz
2D application of a friction-limited model for debris flow propagation
- XY236 EGU2012-7633
F. L. M?gu?, S. Zaharia, T. Glade, and I. A. Irimu?
Comparing performances of heuristic and logistic regression models for a spatial landslide susceptibility assessment in Maramures, County, Northwestern Romania
- XY237 EGU2012-10499
H. C. Chan, C. C. Chang, and P. Y. Laio
Application of Logistic Regression for Landslide Susceptibility Mapping in the Alishan Area, Southern Taiwan
- XY238 EGU2012-11414
P. Horton, **M. Jaboyedoff**, and B. Rudaz
Concepts and parameterisation of Perla and FLM model using Flow-R for debris flow
- XY239 EGU2012-10618
H. Katzensteiner, R. Bell, H. Petschko, and T. Glade
The relationship between extreme precipitation events and landslides distributions in 2009 in Lower Austria
- XY240 EGU2012-14188
A Ciampalini, C Del Ventisette, S Moretti, M Manunta, F Calò, L Paglia, F Ardizzone, F Guzzetti, M Rossi, F Bellotti, D Colombo, T Strozzi, U Wegmuller, O Mora, and F Sanches
DORIS downstream service: a support to civil defence authorities in landslides and subsidence risk management
- XY241 EGU2012-7564
M.T. Brunetti, S. Peruccacci, S. Luciani, D. Bartolini, S.L. Gariano, M.R. Palladino, G. Vessia, A. Viero, L. Antronico, A.M. Deganutti, G. Iovine, F. Luino, M. Parise, and F. Guzzetti
Rainfall thresholds for the possible initiation of shallow landslides in the Italian Alps
- XY242 EGU2012-4315
S. Peruccacci, M.T. Brunetti, S. Luciani, C. Vennari, F. Ungaro, M.C. Calzolari, and F. Guzzetti
Influence of topography and soil type on rainfall thresholds for the possible initiation of shallow landslides in central Italy
- XY243 EGU2012-2683
C. Abancó, M. Hürlimann, D. Sempere, and M. Berenguer
Benefits and limitations of using the weather radar for the definition of rainfall thresholds for debris flows. Case study from Catalonia (Spain).
- XY244 EGU2012-11916
D. J. Peres and A. Cancelliere
Rainfall thresholds for landslide early warning in Sicily: development and comparison
- XY245 EGU2012-13714
J. Cepeda, F. Sandersen, H. Colleuille, T. Humstad, S. Myrabø, L.E. Haugen, G. Devoli, and L. Ehlers
Probabilistic classification of triggering conditions for precipitation-induced landslides in Norway
- XY246 EGU2012-6977
F. Catani, D. Lagomarsino, D. Petracca, S. Segoni, and V. Tofani
Exploring the relative importance of environmental variables across scales in landslide susceptibility mapping
- XY247 EGU2012-7607
D. Lagomarsino, G. Martelloni, S. Segoni, R. Fanti, and F. Catani
SIGMA: an operational warning system for the forecasting of landslide occurrence
- XY248 EGU2012-12113
D. Zizioli, C. Meisina, R. Valentino, and L. Montrasio
Comparison between different approaches of modeling shallow landslide susceptibility: a case history in the area of Oltrepo Pavese, Northern Italy

XY249 EGU2012-4645

J. F. Díaz, R.A. Prieto, E.L. Gómez, and M.R. Villarraga

Geotechnical Multi-Temporal Analysis: A Practical Methodology for Geotechnical Problems Diagnosis

NH3.9 – Submarine Landslides: Mechanisms, Processes and their Sedimentary Record – Orals

Convener: S. Krastel | Co-Conveners: M. Strasser, A. Errera, J. Chaytor, R Urgeles

Room: 4

Chairperson: Krastel, Sebastian & Strasser, Michael

13:30–13:45 EGU2012-7264

K. Kremer, G. Simpson, and S. Girardclos

Mass movement deposit and Tsunami in Lake Geneva (Switzerland-France) caused by a rockslide in 563 AD

13:45–14:00 EGU2012-14251

M. Galbiati, C. Joanne, S. Migeon, J. Mascle, and P. Rocchini

Interaction between turbidite systems and MTDs at the sea-bottom of the Eastern Nile Delta Offshore

14:00–14:15 EGU2012-1068

M. Urlaub, P.J. Talling, and D.G. Masson

Climate control on submarine landslides: How certain can we be?

14:15–14:30 EGU2012-13354

A. Tsukui, **H. Fukuoka**, and S. Yamasaki

Possibility of unlimited shear displacement due to sliding-surface-liquefaction of MH gasification and long runout submarine landslides

14:30–14:45 EGU2012-444

S. Parkinson, J. Hill, P.A. Allison, and M.D. Piggott

An adaptive finite element approach to modelling sediment laden density currents

14:45–15:00 EGU2012-6711

R. Weiss, S. Krastel, and A. Anasetti

Constraining the characteristics of tsunami waves from deformable submarine slides

NH3.9 – Submarine Landslides: Mechanisms, Processes and their Sedimentary Record – Posters

Convener: S. Krastel | Co-Conveners: M. Strasser, A. Errera, J. Chaytor, R Urgeles

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Strasser, Michael & Sebastian Krastel

XY250 EGU2012-723

A. Burminskij

Mathematical modelling of submarine landslide motion

XY251 EGU2012-11908

G. Crosta, S. Imposimato, D. Roddeman, and P. Frattini

Landslide/reservoir interaction: 3D numerical modelling of the Vajont rockslide and generated water wave

XY252 EGU2012-12822

J. O'Shay, R. Weiss, and C.E. Synolakis

How long are submarine landslides coupled to the water column?

XY253 EGU2012-2379

S Chand, L Rise, J Knies, H Haflidason, B.O Hjelstuen, and R Bøe

Influence of stratigraphic development on subsurface focussed fluid flow and Mid-Norwegian margin stability

XY254 EGU2012-4614

S.F.L. Watt and P.J. Talling

Progressive and frontally-confined seafloor sediment failure in response to volcanic debris avalanche emplacement

XY255 EGU2012-4702

Y. Cheng and C.C. Su

Sediment-laden flow induced submarine cable failures off southwestern Taiwan

XY256 EGU2012-14364

R. Gavey, L. Carter, P. Talling, and C.-C. Su

Sequential earthquake and climatic events as triggers of seabed instability: insights into geohazard analysis

XY257 EGU2012-8007

J.P. Corella, J.L. Loizeau, N. Le Dantec, V. Sastre, F.S. Anselmetti, N Stark, T del Sontro, and S Girardclos

Sedimentary processes and triggering mechanisms of debris flows in subaquatic canyons in Rhone delta (Lake Geneva, Switzerland, France)

- XY258 EGU2012-9030
M Tremblay, V Svahn, B Lind, K Lundström, **CE Cederbom** and the Göta river working group Team
Landslide hazard mapping in the Göta river valley to limit
- XY259 EGU2012-9870
Y. Yamada, H. Nakagiri, and A. Miyakawa
Development of slope failures at thrust fault scarps in analogue models: application to submarine landslides
- XY260 EGU2012-5505
P. Nomikou, P. Papanikolaou, A. Tibaldi, S. Carey, K. Croff Bell, F.A. Pasquarè, and I. Livanos
Debris Avalanches along the South Aegean Volcanic Arc

NH3.12 – SafeLand Project and other research on effects of global change on spatial and temporal patterns of landslide risk – Orals

Convener: F. Nadim | Co-Conveners: L. Cascini, H. Modaressi, J. Corominas, Picarelli, j. bayer, N. Casagli

Room: 4

Chairperson: Jordi Corominas

- 15:30–15:45 EGU2012-2246
F. Nadim and **B. Kalsnes**
Changing pattern of landslide risk in Europe - The SafeLand project
- 15:45–16:00 EGU2012-8557
J. Corominas, O. Mavrouli and the Safeland Project Team
Comparison of landslide hazard and risk assessment practices in Europe
- 16:00–16:15 EGU2012-2911
U. Eidsvig, A. McLean, B. V. Vangelsten, B. Kalsnes, R. L. Ciurean, S. Argyroudis, M. Winter, J. Corominas, O. C. Mavrouli, S. Fotopoulou, K. Pitilakis, A. Bails, and J. P. Malet
Socio-economic vulnerability to natural hazards - proposal for an indicator-based model
- 16:15–16:30 EGU2012-1347
S. Bazin and the SafeLand Team
SafeLand guidelines for landslide monitoring and early warning systems in Europe - Design and required technology
- 16:30–16:45 EGU2012-4836
A. Scolobig, J. Bayer, L. Cascini, and S. Ferlisi
To protect or abandon: a participatory process on landslide risk mitigation
- 16:45–17:00 EGU2012-12623
J.-P. Malet, **S. Bégueria-Portuguès**, T. Glade, A. Remaître, A. Puissant, C. Promper, and A. Morajvek
ChangingRISKS: Research challenges for the assessment and communication on possible effects of global changes on landslide risks

NH3.12 – SafeLand Project and other research on effects of global change on spatial and temporal patterns of landslide risk – Posters

Convener: F. Nadim | Co-Conveners: L. Cascini, H. Modaressi, J. Corominas, Picarelli, j. bayer, N. Casagli

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Farrokh Nadim

- XY261 EGU2012-7010
C. Jaedicke, F. Nadim, B. Kalsnes, K. Sverdrup-Thygeson, C. Radermacher, G. Fischer, J. Hervas, and M. Van Den Eeckhaut
Impacts of global change on landslide hazard and risk in Europe in 21st century
- XY262 EGU2012-2959
M G Winter, J T Smith, S Fotopoulou, K Pitlakis, O-C Mavrouli, J Corominas, and S Argyroudis
Determining the physical vulnerability of roads to debris flow by means of an expert judgement approach
- XY263 EGU2012-1691
S. Fotopoulou and K. Pitilakis
Evolution trends in vulnerability of R/C buildings exposed to earthquake induced landslide hazard
- XY264 EGU2012-2445
R. Vandromme, N. Desramaut, A. Bails, A. Hohmann, G. Grandjean, O. Sedan, and J.P. Mallet
Contribution of physical modelling to climate-driven landslide hazard mapping: an alpine test site
- XY265 EGU2012-13694
J. Cepeda, J.P. Malet, A. Remaitre, P. Versace, A. Ferrari, L. Laloui, J. Eichenberger, H. Narasimhan, M.H. Faber, and K. Kronholm
Empirical thresholds for precipitation-induced landslides in Europe

- XY266 EGU2012-2919
C. Michoud, S. Bazin, L.H. Blikra, M.-H. Derron, and M. Jaboyedoff
 Overview of Existing Landslide Early-Warning Systems in Operation
- XY267 EGU2012-2923
C. Michoud, M. Jaboyedoff, M.-H. Derron, F. Nadim, and E. Leroi
 New classification of landslide-inducing anthropogenic activities
- XY268 EGU2012-7889
R.-M. Maftei, G. Vina, and C. Filipciuc
 Study on landslide hazard zonation based on factor weighting-rating theory in Slanic Prahova
- XY269 EGU2012-4427
S. Lacasse, G. Vaciago, Y.J. Choi, and B. Kalsnes
 A web-based tool for ranking landslide mitigation measures
- XY270 EGU2012-7373
C. Melchiorre and P. Frattini
 Estimating slope stability conditions for rainfall-induced shallow landslides in a changing climate. An example from Otta, Central Norway.
- XY271 EGU2012-10051
 R. Hermanns, **T. Oppikofer**, E. Anda, L.H. Blikra, M. Böhme, H. Bunkholt, H. Dahle, G. Devoli, O. Eikenæs, L. Fischer, C.B. Harbitz, M. Jaboyedoff, S. Loew, and F.X. Yugsi Molina
 A hazard and risk classification system for catastrophic rock slope failures in Norway
- XY272 EGU2012-11703
F. Agliardi, O. Mavrouli, M. Schubert, J. Corominas, G.B. Crosta, M.H. Faber, P. Frattini, and H. Narasimhan
 A toolbox for rockfall Quantitative Risk Assessment
- XY273 EGU2012-13112
 G. Capparelli, **P. Versace**, G. Artese, S. Costanzo, P. Corsonello, G. Di Massa, G. Mendicino, D. Maletta, S. Leone, F. Muto, A. Senatore, A. Troncone, E. Conte, and D. Galletta
 Landslides risk mitigation along lifelines

TS8.2/G3.8/NH4.4/SM2.11 – Seismotectonics and crustal deformation in Africa (co-organized) – Orals

Convener: M. Meghraoui | Co-Conveners: R. Durrheim, A. AYELE, V. Midzi

Room: 27

Chairperson: Mustapha Meghraoui and Vunganai Midzi

- 15:30–15:45 EGU2012-14089
T. Wright, A. Ayele, T. Barnie, M. Belachew, E. Calais, L. Field, I. Hamling, J. Hammond, D. Keir and the Afar Rift Consortium Team
 Witnessing the birth of a new ocean? The first 6 years of the Dabbahu rifting episode, and other activity in Afar
- 15:45–16:00 EGU2012-1474
A. Deprez, C. Doubre, F. Masson, A. Socquet, P. Ulrich, C. Vigny, and J.C. Ruegg
 Evidence of changes in the velocity field in the Asal-Ghoubbet rift using GPS data: results of repeated GPS campaigns over a 13-year period.
- 16:00–16:15 EGU2012-11567
A. Tokam Kamga, C. T. Tabod, A. A. Nyblade, and S. S. Nguiya
 Imaging the Lithosphere beneath Cameroon and implications to the origin of the Cameroon Volcanic Line
- 16:15–16:30 EGU2012-7588
R.M.S. Fernandes, M. Meghraoui, J.M. Miranda, M.S. Bos, A. Radwan, A. Tahayt, and M. Muhammad
 Constraints to the strain field of Africa from geodetic solutions: a contribution for the Seismotectonic Map of Africa
- 16:30–16:45 EGU2012-14174
M. Bezzeghoud, C. Adam, E. Buforn, J.F. Borges, and B. Caldeira
 Seismicity along the western part of the Eurasia-Nubian plate boundary
- 16:45–17:00 EGU2012-11779
A. Ayele
 Earthquake and Volcanic Hazard Mitigation and Capacity Building in Sub-Saharan Africa

TS8.2/G3.8/NH4.4/SM2.11 – Seismotectonics and crustal deformation in Africa (co-organized) – Posters

Convener: M. Meghraoui | Co-Conveners: R. Durrheim, A. AYELE, V. Midzi

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Atalay Ayele and Ray Durrheim

- A510 EGU2012-474
E. Saria, E. Calais, Z. Altamimi, P. Willis, R. Fernandes, S. Stamps, and H. Farah
Rigidity of Nubia from combined GPS and DORIS solutions: Implication to Africa Reference Frame (AFREF)
- A511 EGU2012-1551
M. Lindenfeld, G. Rümper, I. Wölbern, A.G. Batte, and A. Schumann
Complex seismicity patterns in the Rwenzori region: insights to rifting processes at the Albertine Rift.
- A512 EGU2012-5849
D. Delvaux, F. Kervyn, A.S. Macheyeke, and E.B. Temu
Geodynamic significance of the TRM segment in the East African Rift: active tectonics and paleostress in western Tanzania
- A513 EGU2012-5931
J.-L. Mulumba and D. Delvaux
Pre-instrumental seismicity in Central Africa using felt seisms recorded mainly at the meteorological stations of DRC, Rwanda and Burundi during the colonial period
- A514 EGU2012-10491
M. Singh
Seismotectonic Analysis for the KZN region of South Africa
- A515 EGU2012-14093
V Midzi
Status of Seismotectonic and seismic hazard studies in South Africa
- A516 EGU2012-14203
D. Keir, M. Belachew, C. Ebinger, M. Kendall, J. Hammond, G. Stuart, A. Ayele, and J. Rowland
Mapping the evolving strain field during continental breakup from crustal anisotropy in the Afar Depression
- A517 EGU2012-1425
A. Deprez, F. Masson, C. Doubre, and P. Ulrich
African plate motions constraining and Euler pole determination using permanent GPS data
- A518 EGU2012-1529
A. Ahmed, **C. Doubre**, S. Leroy, J. Perrot, L. Audin, F. Rolandone, D. Keir, I. Al-Ganad, K. Khanbari, K. Mohamed, J. Vergne, E. Jacques, and A. Nercessian
Seismic constraints on a large dyking event in Western Gulf of Aden
- A519 EGU2012-3334
M. Meghraoui and A. Ayadi
Seismotectonics of North Africa
- A520 EGU2012-3350
R. Ghedhoui, B. Deffontaines, and M.C Rabia
Lateral extrusion of Tunisia : Contribution of Jeffara Fault (southern branch) and Petroleum Implications
- A521 EGU2012-6540
A. Ben-Suleman
reevaluation of seismicity and seismotectonics of Libya
- A522 EGU2012-13155
J. Kacem and M. Hfaiedh
Importance of macroseismic data from moderate local earthquakes for seismic microzoning effects distribution during the 2003 Bardo, Tunisia, earthquake
- A523 EGU2012-14204
S. Maouche, A. Abtout, N. Merabet, T. Aïfa, A. Lamali, B. Bouyahyaoui, S. Boughchiche, and M. Ayache
Tectonic and hydrothermal activities in Debbagh, Guelma Basin, Eastern Algeria

SM2.4/G3.7/NH4.8/TS8.6 – Investigating earthquake physics through source imaging and scaling studies (co-organized) – Orals

Convener: G. Kwiatek | Co-Conveners: H. Sudhaus, R. M. Harrington, P.M. Mai, A. Piatanesi

Room: 26

Chairperson: n.n.

- 15:30–15:45 EGU2012-3790
A.M.G. Ferreira, J. Weston, and G.J. Funning
Joint earthquake source inversions of InSAR and seismic data using 3D Earth models
- 15:45–16:00 EGU2012-12258
J. R. Elliott, Z. Li, E. K. Nissen, J. A. Jackson, S. Lamb, B. Parsons, and R. A. Sloan
Recent continental earthquakes constrained by InSAR: determining source complexity
- 16:00–16:15 EGU2012-4604
G.C. Feng, S. Jónsson, X.L. Ding, and Z. Li
The coseismic deformation and fault slip distribution of the Mw9.0 Tohoku-Oki earthquake estimated from GPS and InSAR

- 16:15–16:30 EGU2012-8546
V. Dionicio, C. Satriano, E. Kiraly, J.-P. Vilotte, and P. Bernard
 Broadband characterization of large subduction earthquakes through the combination of coherent rupture imaging and kinematic modeling
- 16:30–16:45 EGU2012-9989
E. Tinti, L. Scognamiglio, A. Cirella, M. Cocco, and A. Piatanesi
 Complex earthquake directivity during the 2009 L'Aquila mainshock
- 16:45–17:00 EGU2012-8578
P.M. Mai, D. Schorlemmer, and M. Page
 The Source Inversion Validation (SIV) Initiative: A Collaborative Study on Uncertainty Quantification in Earthquake Source Inversions

SM2.4/G3.7/NH4.8/TS8.6 – Investigating earthquake physics through source imaging and scaling studies

(co-organized) – Posters

Convener: G. Kwiitek | Co-Conveners: H. Sudhaus, R. M. Harrington, P.M. Mai, A. Piatanesi

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XL317 EGU2012-2731
R. M. Harrington and G. Kwiitek
 Volcanic seismic earthquakes at Mount St. Helens exhibit a constant seismically radiated energy per unit size.
- XL318 EGU2012-7183
 E Popescu, M Radulian, **M Craiu**, A Craiu, I. A Moldovan, and A. O Placinta
 Source characteristics of the crustal moderate earthquakes occurred between 2007 and 2011, in the South Carpathians and Romanian Plain
- XL319 EGU2012-7118
 E. Popescu, A Craiu, **M Craiu**, M Popa, and M Radulian
 Earthquake sequence in western getic depression (Romania), December 2011 - January 2012: source characteristics and seismotectonics
- XL320 EGU2012-12042
G. Kwiitek and Y. Ben-Zion
 Assessment of radiated P and S wave energy from shear and tensile picoseismicity in the Mponeng deep gold mine, South Africa
- XL321 EGU2012-788
A. Barth
 Spatial b-value variations in the Upper Rhine Graben
- XL322 EGU2012-4020
Y.-T. Ko, B.-Y. Kuo, and S.-H. Hung
 The source scaling and depth-dependent stress drops for subduction zone events
- XL323 EGU2012-8479
M.D. Martinez, M. Monterrubio, and X. Lana
 Time behavior of aftershock series simulated by using a modified version of the Dynamic Fiber Bundle (FBM) model
- XL324 EGU2012-8919
F. N. Bekler, N.M. Ozel, and G.B. Tanircan
 Kinematic Rupture Process Of Karakocan-Elazig Earthquake, Eastern Turkey
- XL325 EGU2012-7539
A. Demirci, T. Bekler, and S. Ozden
 The 19 May 2011 Simav Earthquake (Mw=5.8) and its aftershocks, Western Turkey: Source mechanisms and spectral source parameters
- XL326 EGU2012-11208
M.-A. Schröter, C. Weimann, H. Sturm, and M. Holschneider
 Bridging the scales: Direct SEM imaging of micrometer vibrations for the analysis of stick-slip behavior at microscale
- XL327 EGU2012-382
O. Castro-Artola and A. Iglesias Mendoza
 Simplified Scheme for the Kinematic Inversion of the Rupture Process: Application to Mexican Earthquakes.
- XL328 EGU2012-4256
F. Gallovi?, J. Zahradník, and K. Vachek
 Complexity of the Mw6.3, 2009 L'Aquila (Central Italy) earthquake rupture
- XL329 EGU2012-5459
C.-F. Chen, J.B.H. Shyu, and Y.-M. Wu
 Seismotectonic characteristics of the northernmost part of the Longitudinal Valley suture, eastern Taiwan

- XL330 EGU2012-7153
A. Gallo, G. Costa, and P. Suhadolc
Strong motion inversion for slip distribution on a finite fault using strong motion data: L'Aquila 2009 earthquake
- XL331 EGU2012-9116
S. Ruiz and R. Madariaga
Kinematic inversion of Maule 2010, Chile and Tohoku 2011, Japan earthquakes using cGPS and Strong Motion data
- XL332 EGU2012-9386
J.A. López-Comino, F. Mancilla, J. Morales, and **D. Stich**
Source parameters of the 2011, Mw 5.2 Lorca earthquake (Spain)
- XL333 EGU2012-9719
M. Hensch, Th. Árnadóttir, B. Lund, and B. Brandsdóttir
Spatial stress variations in the aftershock sequence following the 2008 M6 earthquake doublet in the South Iceland Seismic Zone
- XL334 EGU2012-10383
H. Razafindrakoto and M. Mai
Uncertainty Quantification of Kinematic Source Parameters using a Bayesian Approach
- XL335 EGU2012-11610
C.P. Evangelidis and H. Kao
Rupture plane identification of intermediate depth earthquakes in the Hellenic arc by back projection of local seismic waveforms
- XL336 EGU2012-12071
C. Kyriakopoulos, T. Masterlark, M. Chini, C. Bignami, and S. Stramondo
Post-seismic deformation of the 2011 Tohoku earthquake, Japan
- XL337 EGU2012-9945
A. Cirella, A. Piatanesi, E. Tinti, M. Chini, and M. Cocco
Rupture process of the 2009 L'Aquila, central Italy, earthquake, from the separate and joint inversion of Strong Motion, GPS and DInSAR data.
- XL338 EGU2012-13355
H. Sudhaus and S. Heimann
Data Democracy in Simultaneous Monte Carlo Optimizations of Geodetic and Seismological Data

NH5.3/NP 7.3/OS2.6 – Nonlinear Dynamics of the Coastal Zone (co-organized) – Orals

Convener: I. Didenkulova | Co-Conveners: E. Pelinovsky

Room: 1

Chairperson: n.n.

- 10:30–10:45 EGU2012-1302
R. Grimshaw
The reduced Ostrovsky equation: integrability and breaking
- 10:45–11:00 EGU2012-6167
H. Kalisch
Mechanical balance laws for a class of Boussinesq systems
- 11:00–11:15 EGU2012-8764
O. Bokhove and E. Gagarina
Hamiltonian Boussinesq Model with Sheared Currents
- 11:15–11:30 EGU2012-3372
G.M. Reznik and V. Zeitlin
Nonlinear excitation of trapped waves by Poincaré waves in the coastal waveguides
- 11:30–11:45 EGU2012-4149
V. Liapidevskii and A. Chesnokov
Stability and horizontal mixing in shear shallow flows
- 11:45–12:00 EGU2012-2676
S. P. Pudasaini
Tsunami Generated by a Two-Phase Submarine Debris Flow

LUNCH BREAK

Chairperson: n.n.

- 13:30–13:45 EGU2012-1577
E.G. Morozov and A.V. Marchenko
Asymmetric tide in Spitsbergen fjords

- 13:45–14:00 EGU2012-3641
A. Ezersky and N. Abcha
 Laboratory modelling of run-up amplification due to resonant waves
- 14:00–14:15 EGU2012-4007
F. Løvholt and G. Pedersen
 Modelling highly non-linear waves with depth integrated models
- 14:15–14:30 EGU2012-2669
E. K. Lindstrøm, G. Pedersen, A. Jensen, and A. Bertelsen
 Evolution of boundary layers on beaches
- 14:30–14:45 EGU2012-6732
M. Tian, A. Sheremet, and J. Smith
 A Hyperbolic Nonlinear Wave Model Based On The Stream Function Formulation
- 14:45–15:00 EGU2012-7500
J. B. Frandsen, M. Mier-Torrecilla, M. Zurita-Gotor, and D. M. Holman
 Predictions of nearshore hydrodynamics based on free-surface lattice Boltzmann approximations

NH5.3/NP 7.3/OS2.6 – Nonlinear Dynamics of the Coastal Zone (co-organized) – Posters

Convener: I. Didenkulova | Co-Conveners: E. Pelinovsky

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: I. Didenkulova and E. Pelinovsky

- XY274 EGU2012-11784
O. Khvostova and E. Averbukh
 On the dynamics of nonlinear, unsteady landslide flow within the smoothed particle hydrodynamics
- XY275 EGU2012-764
I. Nikolkina and I. Didenkulova
 Waves generated by landslides in rivers: data of Nizhniy Novgorod region
- XY276 EGU2012-1085
Sh. Chatraee and I. Didenkulova
 Effective fully-reflective boundary conditions at the shore for modeling of wave processes in long bays
- XY277 EGU2012-110
 I. Didenkulova and **A. Rodin**
 Statistics of waves within a ship wake
- XY278 EGU2012-112
A. Rodin, I. Didenkulova, and E. Pelinovsky
 Nonlinear interaction of large-amplitude unidirectional waves in shallow water
- XY279 EGU2012-1390
P. Denissenko, I. Didenkulova, E. Pelinovsky, and J. Pearson
 Laboratory study of statistical characteristics of nonlinear long wave runup on a beach
- XY280 EGU2012-120
 M Cannalire and **E. Pelinovsky**
 Soliton propagation over a submarine hill: The variable-coefficient Korteweg - de Vries framework
- XY281 EGU2012-13244
A. Osborne
 Coastal Zone Dynamics in 2+1 Dimensions: Theory and Hyperfast Modeling
- XY282 EGU2012-4126
E. Gagarina, O. Bokhove, and J.J.W. van der Vegt
 Hamiltonian Boussinesq Model with Horizontally Sheared Currents.
- XY283 EGU2012-9441
T. Lyubimova, A. Lepikhin, V. Konovalov, Ya. Parshakova, and A. Tiunov
 Mixing in three-dimensional turbulent flow near the river confluence
- XY284 EGU2012-12096
M. Drivdal and J.E.H. Weber
 Mean Lagrangian drift in continental shelf waves
- XY285 EGU2012-12182
 V. Vasilieva and **O. Shishkina**
 An effect of the near-bottom pycnocline on the loads of the bottom hill
- XY286 EGU2012-6816
I. Tereshchenko, A. Filonov, and A. Anis
 Internal Nonlinear Tides on the Mexican Pacific Shelf
- XY287 EGU2012-6162
A. Filonov, M.F. Lavin, L.B. Ladah, and I. Tereshchenko
 The dynamics of internal tidal waves in Todos Santos Bay, Baja California, during experiment FLOO-2007

- XY288 EGU2012-518
J.M. Magalhaes and J.C.B. da Silva
 Internal solitary wave generation and refraction observed at the Estremadura Promontory off the west Iberian Coast (Portugal)
- XY289 EGU2012-9237
T. Reisner, H. Steeb, and J. Renner
 A numerical investigation on the fluid flow at the interface of a porous and a free flow domain
- XY290 EGU2012-9761
T. Szekely, L. Marie, and Y. Morel
 Numerical model and observations of interactions between coastal shelf tidal front and a barotropic jet.
- XY291 EGU2012-9267
D. Lyubimov, T. Lyubimova, and D. Baidina
 Travelling waves above the canopy of aquatic vegetation

NH5.5 – Storm surges, coastal flooding and erosion: extreme events, damage and risk – Orals

Convener: C. Muddersbach | Co-Conveners: J. Jensen, J. Kropp, D. Rybski, F. J. Mendez, R. J. Nicholls, B. Zanuttigh

Room: 1

Chairperson: F. J. Mendez

- 08:30–08:45 EGU2012-5526
I. Grabemann, N. Groll, and L. Gaslikova
 Climate change impact estimates for extreme marine events in the German Bight (North Sea)
- 08:45–09:00 EGU2012-12007
D.J. Befort, U. Ulbrich, A. Ganske, G. Rosenhagen, H. Heinrich, and G.C. Leckebusch
 Wind Induced Storm Surge Risk in the German Bight: Present Day Climate and GHG Scenario
- 09:00–09:15 EGU2012-14265
A. Polonsky, A. Garmashov, V. Fomin, N. Valchev, and E. Trifonova
 XXI century projections of wind-wave conditions and sea-level rise in the Black sea
- 09:15–09:30 EGU2012-14212
M. Menendez, J. Perez, F.J. Mendez, and I.J. Losada
 Probabilistic Climate Change Projections of Nearshore Wave Climate
- 09:30–09:45 EGU2012-6042
C. Wilson, K. J. Horsburgh, and J. A. Williams
 Quantifying the temporal and spatial sensitivity of forecast storm surge to initial and boundary forcing using the novel technique of adjoint modelling
- 09:45–10:00 EGU2012-14215
Y.M. Fan, L.C. Wu, D.J. Doong, C.C. Kao, and J.H. Wang
 Development of an Operational Typhoon Swell Forecasting and Coastal Flooding Early Warning System

NH5.5 – Storm surges, coastal flooding and erosion: extreme events, damage and risk – Posters

Convener: C. Muddersbach | Co-Conveners: J. Jensen, J. Kropp, D. Rybski, F. J. Mendez, R. J. Nicholls, B. Zanuttigh

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: D. Rybski

- XY292 EGU2012-14478
 P. Lollino and **A. Reina**
 Analysis of the evolution of the instability process of a coastal cavern
- XY293 EGU2012-1343
C. Muddersbach, S. Dangendorf, T. Wahl, and J. Jensen
 Trends in sea level percentiles along the German North Sea coastline compared to regional mean sea level changes
- XY294 EGU2012-13587
J. Wolf, J. Lowe, and T. Howard
 Climate downscaling: Local mean sea-level rise, surge and wave modelling
- XY295 EGU2012-14261
I.J. Losada, E. Garcia Alonso, F.J. Mendez, B. Zanuttigh, R.J. Nicholls, R. Thompson, J.P. Vanderlinden, F. Fernandez, B. Ondiviela, P. Diaz-Simal, and S. Bagli
 A holistic evaluation of risks in coastal regions under changing climatic, environmental and socioeconomic conditions: the Theseus Decision Support System.
- XY296 EGU2012-393
H.Z. Abidin, S. Hadi, H. Andreas, I. Gumilar, S.L. Nurmaulia, and Y. Fukuda
 Coastal Flooding of Jakarta (Indonesia): Causes and Impacts

- XY297 EGU2012-1159
A. Lamberti and **M. Masina**
Seasonal statistics of highest sea levels along the northwestern Adriatic coast
- XY298 EGU2012-1160
A. Lamberti, M. Masina, and R. Archetti
Investigating dependence in the main sea state parameters with copula approach
- XY299 EGU2012-5001
D. Rybski, M. Boettle, and J.P. Kropp
On the estimation of damages due to coastal floods
- XY300 EGU2012-5615
J. Maskell
Storm surge and river interaction in estuaries
- XY301 EGU2012-6193
J. J. Diez, M.D Esteban, J.S. López-Gutiérrez, and V. Negro
Climate, storm surging and inland flooding risks
- XY302 EGU2012-7726
A. Mushkin and O. Katz
The role of extreme winter storms in the overall retreat pattern of an actively eroding eolianite coastal cliff-line in the eastern Mediterranean
- XY303 EGU2012-8285
H. Hein, S. Mai, B. Mayer, T. Pohlmann, and U. Barjenbruch
A multi-scale and model approach to estimate future tidal high water statistics in the southern German Bight
- XY304 EGU2012-9915
I. Haltas
Estimating Extreme High Still Water Levels in North San Francisco Bay with Annual Maxima and Convolution Methods
- XY305 EGU2012-10656
P. Letortu, S. Costa, O. Cantat, F. Levoy, J.C. Dauvin, and E. De Saint-Léger
Coastal flooding events on the French coast of the eastern English Channel: the result of a combination of meteorological, marine, and morphological factors
- XY306 EGU2012-11590
A. Critto, V. Gallina, S. Torresan, J. Rizzi, A. Zabeo, S. Carniel, M. Sclavo, and A. Marcomini
Coastal erosion impacts under climate change scenarios at the regional scale in the North Adriatic Sea
- XY307 EGU2012-11780
T. Woeffler, C. Grimm, D. Bachmann, J. Jensen, C. Mundersbach, P. Froehle, F. Thorenz, and H. Schuettrumpf
Risk Management in Coastal Engineering - Applied Research Projects for the German Wadden Sea
- XY308 EGU2012-12024
S. Bagli, B. Zanuttigh, L. Martinelli, I.J. Losada, V. Laborie, and A. Pistocchi
A raster-based model for mapping storm surge flooding in urbanized coastal area: a watershed segmentation approach
- XY309 EGU2012-12305
S. Dangendorf, C. Mundersbach, T. Wahl, and J. Jensen
Meteorological forcing of the annual MSL cycle and its impacts on flood risk in the German Bight
- XY310 EGU2012-12436
J.-F. Breilh, E. Chaumillon, and X. Bertin
Simulating coastal flooding during Xynthia through an improved static inundation method
- XY311 EGU2012-13096
R. R. C. Perinotto, **J. Bonetti**, A. V. Campos, and F. M. Rudorff
Coastal susceptibility to erosion induced by storm surges: an approach using Geoindicators
- XY312 EGU2012-14021
D. Dillingh, F. Baart, and J. de Ronde
Do we have to take an acceleration of sea level rise into account?
- XY313 EGU2012-14217
V. Laborie, F. Hissel, and P. Sergeant
Future extreme water levels and floodplains in Gironde Estuary considering climate change
- XY314 EGU2012-14219
J. Weiss, P. Bernardara, M. Andreewsky, and M. Benoit
Seasonal autoregressive modeling of a skew storm surge series

NH5.6 – Sea hazards and ship operations – Orals

Convener: E. Bitner-Gregersen | Co-Conveners: A. Toffoli

Room: 1

Chairperson: E. Bitner-Gregersen and A. Toffoli

- 15:30–15:45 EGU2012-7001
A. Iafrati, M. Onorato, and A. Babanin
Kinematics of modulated wave trains in presence of wave breaking events
- 15:45–16:00 EGU2012-11678
M. Onorato, D. Proment, G. Claus, and M. Klein
From NLS breathers to sea-keeping tests
- 16:00–16:15 EGU2012-13176
A. Osborne
Computation and Prediction of Rogue Waves in Extreme Sea States
- 16:15–16:30 EGU2012-10735
P. Alfredini, **A. Pezzoli**, E. I. Cristofori, A. Dovetta, and E. Arasaki
Wave and tidal level analysis, maritime climate change, navigation's strategy and impact on the coastal defences - Study case of São Paulo State Coastline Harbour Areas (Brazil)
- 16:30–16:45 EGU2012-752
A. Rodin and I. Didenkulova
A typical wave wake from high-speed vessels: its group structure and run-up
- 16:45–17:00 EGU2012-14141
E. M. Bitner-Gregersen and A. Toffoli
A wave crest distribution of random directional wave fields

NH5.6 – Sea hazards and ship operations – Posters

Convener: E. Bitner-Gregersen | Co-Conveners: A. Toffoli

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: A. Toffoli and E. Bitner-Gregersen

- XY315 EGU2012-1497
E. Vanem and E.M. Bitner-Gregersen
A stochastic model for predicting future ocean wave climate and potential impact on ship environmental loads
- XY316 EGU2012-2531
A. Toffoli, E. M. Bitner-Gregersen, and M. Onorato
Statistics of deep-water wave kinematics
- XY317 EGU2012-5974
B. Viikmae and T. Soomere
Patterns of Hits to the Nearshore from a Major Fairway in the Gulf of Finland
- XY318 EGU2012-7037
G. Zodiatis, R. Lardner, M. De Dominicis, G. Coppini, and N. Pinardi
An advance forecasting system for ship originated oil spills in the Mediterranean
- XY319 EGU2012-7122
G. Zodiatis, D. Hayes, A. Karaolia, S. Stylianou, A. Nikolaidis, I. Constantinou, S. Michael, G. Galanis, and G. Georgiou
Technologies for Online Data Management of Oceanographic Data
- XY320 EGU2012-11386
L. Fernandez, A. Toffoli, and J. Monbaliu
Evaluating the role of higher order nonlinearity in water of finite and shallow depth with a direct numerical simulation method of Euler equations
- XY321 EGU2012-11452
C. S. L. Grimaldi, I. Coviello, T. Lacava, N. Pergola, and V. Tramutoli
RST analysis of thermal infrared satellite data for a continuous oil spill detection and monitoring
- XY322 EGU2012-14146
L. Cavaleri, L. Bertotti, L. Torrisi, E. M. Bitner-Gregersen, M. Serio, and **M. Onorato**
Rogue waves in crossing seas: the Louis Majesty accident
- XY323 EGU2012-14151
T. B. Nilssen, M. Strandmyr Eide, **L. I. Eide**, and Ø. Endresen
Shipping across the Arctic Ocean -A feasible option in 2030-2050 as a result of global warming?
- XY324 EGU2012-14306
JM Lefevre, L. Aouf, P. Queffelec, A. Bentamy, and Y. Quilfen
Operational forecasting of wind-generated waves by tropical cyclones
- XY325 EGU2012-14307
AK Magnusson and EM Bitner-gregersen
Statistics of extreme waves - role of sensors and quality control
- XY326 EGU2012-14309
L. Loffredo, J Monbaliu, and C Anderson
An application of a queuing model for sea states

XY327 EGU2012-14346

H. Houtani, T Waseda, and A Toffoli

Short-term and long-term evolution of modulational wave train under influence of current

NH9.7 – Vulnerability assessments in natural hazard and risk analysis – Orals

Convener: S. Fuchs | Co-Conveners: J. Birkmann, T. Glade

Room: 8

Chairperson: n.n.

13:30–13:45 EGU2012-578

M. Muler and **J. Bonetti**

An integrated approach to assess wave exposure on vulnerability analysis

13:45–14:00 EGU2012-4899

C. Heitz, M.A. Bchir, and M. Willinger

Does exposure to lahars risk affect people's risk-preferences and other attitudes? Field data from incentivized experiments and surveys in Arequipa - Peru

14:00–14:15 EGU2012-8416

I. C. Stanga and A. Grozavu

Multi-level significance of vulnerability indicators. Case study: Eastern Romania

14:15–14:30 EGU2012-8515

M. Dovžak, S. Stanič, K. Bergant, and G. Gregorič

Protection of agriculture against drought in Slovenia based on vulnerability and risk assessment

14:30–14:45 EGU2012-11930

e. moulin and j.-f. deroubaix

Assess the flood resilience tools integration in the landuse projects

14:45–15:00 EGU2012-12561

R. L. Ciurean and T. Glade

Uncertainty analysis in vulnerability estimations for elements at risk- a review of concepts and some examples on landslides

NH9.7 – Vulnerability assessments in natural hazard and risk analysis – Posters

Convener: S. Fuchs | Co-Conveners: J. Birkmann, T. Glade

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

XY328 EGU2012-8699

R. Totschnig and S. Fuchs

Validating vulnerability functions for buildings exposed to Alpine torrent processes

XY329 EGU2012-4266

M. Papathoma-Koehle, A. Zischg, S. Fuchs, M. Keiler, and T. Glade

Loss estimation of debris flow events in mountain areas - An integrated tool for local authorities

XY330 EGU2012-28

C. Ornetsmüller, C. Heidger, R. Totschnig, and **S. Fuchs**

Applying spatial scan statistics on vulnerability to mountain hazards

XY331 EGU2012-2626

C.-H. Hsu, T.-C Tsao, and **S. Fuchs**

The comparison of different approaches to establish the vulnerability of brick buildings to debris flow hazards

XY332 EGU2012-27

S. Fuchs, M. Keiler, and T.-C. Tsao

A comparison of different vulnerability functions for mountain hazard risk management

XY333 EGU2012-7048

B. Mazzorana, S. Fuchs, and L. Levaggi

The physical vulnerability of elements at risk: a methodology based on fluid and classical mechanics

XY334 EGU2012-3908

T.-Y. Pan, T.-J. Chang, J.-S. Lai, and H.-K. Chang

Impacts of urbanization on the hazard, vulnerability and risk of pluvial disaster

XY335 EGU2012-4060

D. Choi, H. D. Jun, and S. Kim

Vulnerability Assessment of Natural Disasters for Small and Mid-Sized Streams due to Climate Change and Stream Improvement

XY336 EGU2012-4361

P. Bion, B. Van Wyk de Vries, and G. Valentine

Conception of a method for the creation of volcanic risk index maps

- XY337 EGU2012-5930
T. Kunz-Plapp, B. Khazai, and J.E. Daniell
 Integrating Social impacts on Health and Health-Care Systems in Systemic Seismic Vulnerability Analysis
- XY338 EGU2012-9917
C. Tarragoni, P. Bellotti, C. Caputo, L. Davoli, S. Evangelista, F. Pugliese, R. Raffi, and E. Lupia Palmieri
 Coastal vulnerability and the implications of sea level rise between the cities of Pescara and Ortona (Adriatic Sea - Central Italy)
- XY339 EGU2012-12674
P. Gurbas
 A Survey about resilience of Turkish People to a Potential Disaster
- XY340 EGU2012-159
N. Tsereteli, V. Arabidze, O. Varazanashvili, and T. Gugeshashvili
 Vulnerability assessment at a national level in Georgia
- XY341 EGU2012-458
L. Etienne, R. Bouaziz, S. Dahech, A. Daoud, and G. Beltrando
 Environmental changes and vulnerability in the Gharbi Island (Kerkennah, Tunisia)
- XY342 EGU2012-4484
G. Trendafiloski, O. Gaspa Rebull, C. Ewing, A. Podlaha, and B. Magee
 Calibration and validation of earthquake catastrophe models. Case study: Impact Forecasting Earthquake Model for Algeria
- XY343 EGU2012-12741
M. Wieland, M. Pittore, S. Parolai, and J. Zschau
 A transferable approach towards rapid inventory data capturing for seismic vulnerability assessment using open-source geospatial technologies

NH9.10 – Incorporating spatio-temporal variability into risk management – Posters

Convener: C. Neuhold | Co-Conveners: S. Fuchs, C. Aubrecht

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: C. Neuhold, S. Fuchs

- XY344 EGU2012-631
F. Salit, B. Beltrando, and L. Zaharia
 The assessment of river basin and flood management from early twentieth century to the present on the lower Siret River (Romania)
- XY345 EGU2012-1915
H. Kreibich and C. Neuhold
 Cross-country transferability of flood damage models for residential buildings
- XY346 EGU2012-3519
H. Cammerer and A. Thieken
 Spatio-temporal dynamics in the flood exposure due to land use changes
- XY347 EGU2012-4422
C. Promper, T. Glade, A. Puissant, and J.-P. Malet
 Land cover as an important factor for landslide risk assessment
- XY348 EGU2012-7507
 C. Aubrecht, **K. Steinnocher**, S. Freire, W. Loibl, J. Peters-Anders, and J. Ungar
 Considering Time-Dependency of Social Vulnerability in Crisis Modeling and Management
- XY349 EGU2012-7533
B. Jongman, P.J. Ward, and J.C.J.H. Aerts
 Global scale flood exposure assessment - Methodologies and results
- XY350 EGU2012-11080
M. Lingg, M. Keuschnig, I. Hartmeyer, J.-C. Otto, and L. Schrott
 Risk Management in a fast changing and complex environment. A feasibility study from the Kitzsteinhorn (3203 m), Hohe Tauern, Austria.
- XY351 EGU2012-11895
M. Santos, L. Martins, S. Moreira, A. Costa, F. Matos, M. Teixeira, and C. Bateira
 Modeling of natural risks in GIS, decision support in the Civil Protection and Emergency Planning
- XY352 EGU2012-12699
J. Luther
 An approach for the anticipatory and participatory management of current and future flood risks
- XY353 EGU2012-13111
S. bachri, J. Stöetter, J. Sartohadi, and M. A. Setiawan
 Evaluation of volcanic risk management in Merapi and Bromo Volcanoes

- XY354 EGU2012-13180
M. Pittore, M. Wieland, A. Duisheev, and P. Yasunov
 Improved seismic risk assessment based on probabilistic multi-source information integration
- XY355 EGU2012-1613
C. Neuhold, K. Hogg, W. Seher, H.P. Nachtnebel, P. Scherhauser, R. Nordbeck, and L. Löschner
 Anticipatory flood risk assessment under climate change scenarios: from assessment to adaptation
- XY356 EGU2012-13993
S. Fuchs, C. Heidger, and C. Ornetsmüller
 Applying spatiotemporal statistics to derive vulnerability patterns resulting from torrent events
- XY357 EGU2012-13994
S. Fuchs, P. Koltermann, S. Sokratov, Y. Seliverstov, and A. Shnyparkov
 Spatial aspects of vulnerability and risk resulting from snow avalanches

NH9.11 – Multi-type hazard and risk assessment – Orals

Convener: J. Zschau | Co-Conveners: K. Fleming, H. Modaresi, P. Gasparini

Room: 8

Chairperson: Jochen Zschau, Paolo Gasparini

- 15:30–15:45 EGU2012-708
J. C. Gill and B. D. Malamud
 Reviewing and visualising interaction relationships for natural hazards
- 15:45–16:00 EGU2012-3642
N. Frolova, V. Larionov, and J. Bonnin
 Multi-hazards risk assessment at different levels
- 16:00–16:15 EGU2012-5498
H. Kreibich and P. Bubeck
 Modelling direct tangible damages due to natural hazards
- 16:15–16:30 EGU2012-5553
A. Garcia-Aristizabal, A. Di Ruocco, E. Bucchignani, F. De Paola, F. Jalayer, W. Kombe, G. UHINGA, W. Marzocchi, and P. Gasparini
 An integrated multi-risk framework considering climate change impacts on African cities
- 16:30–16:45 EGU2012-11255
A.R. Reveillere, D.B. Bertil, J.D. Douglas, L.G. Grisanti, S.L. Lecacheux, D.M. Monfort, H.M. Modaresi, H.M. Müller, J.R. Rohmer, and O.S. Sedan
 Comparative risk assessments for the city of Pointe-à-Pitre (French West Indies): earthquakes and storm surge
- 16:45–17:00 EGU2012-5180
S. Esposito, I. Iervolino, F. Silvestri, A. d'Onofrio, A. Santo, P. Franchin, and F. Cavalieri
 Multi-risk assessment of L'Aquila gas distribution network

NH9.11 – Multi-type hazard and risk assessment – Posters

Convener: J. Zschau | Co-Conveners: K. Fleming, H. Modaresi, P. Gasparini

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Hormoz Modaresi, Kevin Fleming

- XY358 EGU2012-2380
F. Euchner and A. Mignan
 MATRIX City: A Multi-Risk Platform
- XY359 EGU2012-7386
 G. Barreca, **A. Bonforte**, and M. Neri
 A GIS tool for Integrated Hazard Evaluation on the faults of Mt. Etna (Sicily)
- XY360 EGU2012-13495
M. Pittore, M. Wieland, D. Bindi, K. Fleming, and S. Parolai
 Multi-resolution adaptive data collection prioritisation for multi-risk assessment
- XY361 EGU2012-8886
M. Fernandez and J. Ruegg
 Territory management an appropriate approach for taking into account dynamic risks
- XY362 EGU2012-8803
M. Fernandez and J. Ruegg
 A challenge for land and risk managers: different stakeholders, different definitions of the risks
- XY363 EGU2012-12374
J.M. Marrero, A. Garcia, A. Llinares, P. Lopez, and R. Ortiz
 Assessing the vulnerability of the evacuation emergency plan: the case of the El Hierro, Canary Island, Spain

- XY364 EGU2012-7839
C. Huggel, A. Raissig, G. Romero, M. Rohrer, N. Salzmann, A. Díaz, and D. Acuña
 On trends and climatic effects of multi-type and cascading hazards in the Andes of Peru
- XY365 EGU2012-2726
O. Petrucci and A.A. Pasqua
 The impact of Damaging Hydro Geological events on people in a Mediterranean region
- XY366 EGU2012-13467
V. Zumpano, H.Y. Hussin, and K. Breinl
 Exploring probabilistic tools for the development of a platform for Quantitative Risk Assessment (QRA) of hydro-meteorological hazards in Europe
- XY367 EGU2012-13860
S. Tyagunov, K. Fleming, S. Parolai, M. Pittore, S. Vorogushyn, M. Wieland, and J. Zschau
 Seismic Hazard and Risk Assessment in Multi-Hazard Prone Urban Areas: The Case Study of Cologne, Germany
- XY368 EGU2012-14323
M. Raschke
 Earthquake and storm risk of the power transmission grid of Switzerland

SSS7.3 – Where does all the Pyrogenic Organic Matter go? Its Fate in Soils, Water and Sediments (co-listed) – Orals

Convener: C. Santin | Co-Conveners: J. M. De la Rosa, S. Doerr

Room: 3

Chairperson: Cristina Santín

- 08:30–08:45 EGU2012-6357
M. W. I. Schmidt, N. Singh, B. Maestrini, M. P. W. Schneider, and S. Abiven
 Where does all the fire-derived organic matter go? Do we know what we don't know (yet)?
- 08:45–09:00 EGU2012-12242
C.M.. Preston, M. Simard, and G.M. Bernard
 Some reflections on the natural history of pyrogenic C in boreal forests
- 09:00–09:15 EGU2012-908
E. Kane and W. Hockaday
 Does more intense burning in warmer, drier boreal forest create more stable black carbon in soils?
- 09:15–09:30 EGU2012-5343
M Ohlson, A E Bjune, I Kasin, and A Nordtug Wist
 Spatial variation in the charcoal pool
- 09:30–09:45 EGU2012-5975
PL Ascough, W Meredith, MI Bird, D Large, C Snape, and E Tilston
 Evaluating hydropyrolysis as a method for quantification and characterisation of Black Carbon in environmental matrices
- 09:45–10:00 EGU2012-2038
Y. Kuzyakov, I. Bogomolova, and B. Glaser
 Black carbon decomposition during 7 years and its transformation in soil estimated by 14C labeling

COFFEE BREAK

Chairperson: José María De la Rosa

- 10:30–10:45 EGU2012-830
C.A. Masiello, Z. Liu, K.L. Ziegelgruber, B. Dugan, H. Gonnermann, V.J. Chuang, and K. Zygourakis
 Density and porosity as controls on charcoal storage in soils
- 10:45–11:00 EGU2012-699
A. A. Berhe, E. Stacy, S.C. Hart, C Hunsaker, and D Johnson
 Lateral Transport of Black vs. Bulk SOM with soil erosion
- 11:00–11:15 EGU2012-2948
C. Rumpel
 Composition and dynamics of pyrogenic C depend on its physical form
- 11:15–11:30 EGU2012-198
J. Hatten, J. Warrick, M. Goni, R. Wheatcroft, G. Pasternack, A. Gray, and E. Watson
 The Role of Wildfire in the Export of Particulate and Pyrogenic Organic Carbon from a Small Mountainous River

- 11:30–11:45 EGU2012-2566
M.M. Bisiaux, **A.C. Heyvaert**, and R. Edwards
Distribution and Fate of Black Carbon Nanoparticles from Regional Urban Pollution and Wildfire at a Large Subalpine Lake in the Western United States
- 11:45–12:00 EGU2012-5903
T. Dittmar, C. E. Rezende, M. Manecki, J. Niggemann, A. R. Coelho Ovalle, and M. C. Bernardes
Continuous flux of dissolved black carbon from a vanished tropical forest biome

SSS7.3 – Where does all the Pyrogenic Organic Matter go? Its Fate in Soils, Water and Sediments (co-listed) –

Posters

Convener: C. Santin | Co-Conveners: J. M. De la Rosa, S. Doerr

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY619 EGU2012-9913
L. Sánchez-García, I. Cato, and Ö. Gustafsson
The sequestration sink of soot black carbon in the Northern European Shelf sediments
- XY620 EGU2012-13741
C Licata and R Sanford
Soil total and charcoal carbon from mountain shrublands to subalpine forests in the Colorado Front Range
- XY621 EGU2012-1022
N.A. Vasilyeva and C. Chenu
Century scale char and non-char C co-stabilization in soil free C fractions
- XY622 EGU2012-468
C. Santin, S.H. Doerr, R.A. Shakesby, R. Bryant, G.J. Sheridan, P.N.J. Lane, H.G. Smith, and T.L. Bell
Pyrogenic carbon in wildfire ash: characteristics and potential as C sink
- XY623 EGU2012-7729
S. Fernández, P. Rocas, C. Recondo, and C. Santin
Ortophoto and satellite imagery to monitoring biochar in mountain soils (NW of Cantabrian Range, Spain)
- XY624 EGU2012-3802
L.N. Soucemarianadin, M.D. MacKenzie, R.E. Wasylshen, and S.A. Quideau
Influence of the forming conditions on Black Carbon properties
- XY625 EGU2012-2762
T. Maxfield
Mechanisms of biochar stability and functionality
- XY626 EGU2012-13915
W.C Hockaday and C.A Masiello
The aromatic domains in charcoal are small: Implications for the fate and transport of pyrogenic carbon
- XY627 EGU2012-14259
C Santin and SH Doerr
Quantifying pyrogenic carbon: don't miss the big bits?
- XY628 EGU2012-14260
R Bryant, **SH Doerr**, and C Santin
Black Carbon Production in Open Biomass Combustion
- XY629 EGU2012-13523
G. Almendros, Z. Hernández, F.J. González-Vila, J. Sanz, J.M. De la Rosa, and **H. Knicker**
Analysis of carbon forms in chemically-modified peat humic acids by partial least squares regression analysis of solid-state nuclear magnetic resonance spectra
- XY630 EGU2012-4893
H. Knicker, F.J. González Vila, and L. Clemente Salas
Biochemical resistance of pyrogenic organic matter in fire-affected mineral soils of Southern Europe
- XY631 EGU2012-264
J. M. De la Rosa and H Knicker
Fast effects of biochar amendment on soil C and N dynamics, nutrient availability and fertility under controlled conditions
- XY632 EGU2012-2644
N. Singh, S. Abiven, B. Maestrini, J.A. Bird, E.L. Eoin, M.S. Torn, and M.W.I. Schmidt
Changes in biogeochemistry of pyrogenic carbon in soil after one year
- XY633 EGU2012-2777
B. Maestrini, S Abiven, N Singh, J. Bird, M. S. Torn, and M.W.I. Schmidt
Pyrogenic carbon loss pathways under natural and increased N deposition and its priming effect on soil organic matter

- XY634 EGU2012-9971
M.E. Varela, S.R. Faria, **I. Campos**, M.M.P.F. Caria, R.S.V. Ferreira, A.I. Machado, M.A.S. Martins, R. Pinto, S.A. Prats, V.I. Esteves, and J.J. Keizer
Effects of wildfire on soil organic carbon export by runoff in Central Portugal
- XY635 EGU2012-1113
F. Worrall and **GD Clay**
Prescribed burning as a natural, long-term experiment in biochar addition - Can prescribed burns contribute to carbon storage in peat soils?
- XY636 EGU2012-8712
G. Almendros, F.J. González-Vila, J.A. González-Pérez, H. Knicker, **J.M. De la Rosa**, C. Dettweiler, and Z. Hernández
On the structural factors of soil humic matter related to soil water repellence in fire-affected soils
- XY637 EGU2012-14331
A. Cerdá, F. González Peñaloza, C. Santín, and S.H. Doerr
Land abandonment, fire recurrence and soil carbon content in the Macizo del Caroig, Eastern Spain
- XY638 EGU2012-14086
R. Menéndez-Duarte, S. Fernández, C. Santin, L. Gaspar, and A. Navas
Wildfire effects on C stocks in mountain soils

Thursday, 26 April

GM2.1 – High definition topography - data acquisition, modelling, interpretation (co-listed) – Posters

Convener: D. Rieke-Zapp | Co-Conveners: A. Reiterer, J. Chandler, D. Vericat, N. Tate, D. M. Powell, J. Brasington, I. Marzloff

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: D. Vericat / N. Tate

- XL206 EGU2012-7714
A. Wagner, A. Reiterer, P. Wasmeier, **D. Rieke-Zapp**, and T. Wunderlich
Vision-Based Geo-Monitoring - A New Approach for an Automated System
- XL207 EGU2012-7858
R. Berther and D. Rieke-Zapp
Geomonitoring for understanding of sediment transport in an Alpine river catchment
- XL208 EGU2012-5566
A. Beer, L. Campana, and D. Rieke-Zapp
Evaluating sub-millimetre erosion monitoring in a mountain torrent
- XL209 EGU2012-14172
P. Marzahn, D. Rieke-Zapp, and R. Ludwig
Soil surface roughness characterization for microwave remote sensing applications
- XL210 EGU2012-4952
D. Rieke-Zapp
Insitu measurement of bedrock erosion
- XL211 EGU2012-12789
A. Volkwein, A. Beer, and L. Egli
Applications of terrestrial laser scanning in natural hazard sciences
- XL212 EGU2012-10565
M. Lo Brutto
Automatic reconstruction of 3D models in geomorphology through close-range photogrammetry and 3D web-based services
- XL213 EGU2012-5759
J. Gance, T. Dewez, J.-P. Malet, and A. Stumpf
Time-lapse stereo-photogrammetry to monitor electrical sounding electrodes on an unstable slope
- XL214 EGU2012-3537
H.K. Seo, Y.H. Noh, J.G. Um, Y.S. Choi, and M.H. Park
Applicability of digital photogrammetry technique to quantify rock fracture surfaces
- XL215 EGU2012-8167
F. Bretar, M. Pierrot-Deseilligny, D. Schelstraete, O. Martin, and P. Quernet
Generating High resolution surfaces from images: when photogrammetry and applied geophysics meets
- XL216 EGU2012-936
M. Westoby, J. Brasington, N.F. Glasser, M.J. Hambrey, and J.M. Reynolds
Structure-from-Motion photogrammetry: a novel, low-cost tool for geomorphological applications
- XL217 EGU2012-6261
C. Hugenholtz, K. Whitehead, B. Moorman, O. Brown, T. Hamilton, T. Barchyn, K. Riddell, and A. LeClair
High-resolution terrain and landcover mapping with a lightweight, semi-autonomous, remotely-piloted aircraft (RPA): a case study and accuracy assessment
- XL218 EGU2012-8822
C. Wiegand, C. Geitner, K. Heinrich, and M. Rutzinger
Multi-temporal analysis of aerial images for the investigation of spatial-temporal dynamics of shallow erosion - a case study from the Tyrolean Alps
- XL219 EGU2012-10016
C. Capanna, L. Jorda, G. Gesquière, and **P. Lamy**
A new 3D reconstruction technique applied to small solar system bodies
- XL220 EGU2012-9765
S. Delalieux, S. Livens, M. Goossens, I. Reusen, and **C. Tote**
Spatial unmixing for environmental impact monitoring of mining using UAS and WV-2
- XL221 EGU2012-8875
A Constantinescu, I. Nichersu, **C. Trifanov**, I. Nichersu, and M. Mierla
Morphometric analyze for flood hazard map using DTM built with LIDAR and Echo-sounder data in Danube Delta

- XL222 EGU2012-8905
M. Avian
First results of repeated Terrestrial Laserscanning monitoring processes at the rock fall area
Burgstall/Pasterze Glacier, Hohe Tauern Range, Central Austria
- XL223 EGU2012-10081
M. Avian
Performance and limits of different long-range TLS-sensors for monitoring high mountain geomorphic
processes at different spatial scales
- XL224 EGU2012-12400
A. Prokop and M. Chiari
Long term monitoring of geomorphological changes caused by torrent activity using terrestrial laser scanning
- XL225 EGU2012-10244
D.J. Luscombe, K. Anderson, A. Wetherelt, E. Grand-Clement, N. Le-Feuvre, D. Smith, and R.E. Brazier
Understanding the structure of Exmoor's peatland ecosystems using laser-scanning technologies
- XL226 EGU2012-10512
N. Perez-Gallego, T. Francke, J. Latron, S. Werth, S. Werb, and **F. Gallart**
Testing a Terrestrial Laser Scanner for studying badlands forms and erosion rates. Vallcebre (Catalan
Pre-Pyrenees)
- XL227 EGU2012-2469
M. Dotterweich and S. Bub
Using of high resolution morphometric thalweg analyses of dry valleys under woodland to assess land use
impact and soil erosion in the late Holocene
- XL228 EGU2012-13442
B.D. Collins, S.C. Corbett, and H.C. Fairley
Measuring and modeling high-resolution topographic change at archaeological sites in Grand Canyon National
Park, Arizona, U.S.A.
- XL229 EGU2012-731
Á. Gómez, S. Schnabel, F. Lavado, and J. Rubio
Developing a methodology to estimate historical sheet erosion rates using exposed roots and terrestrial laser
scanner
- XL230 EGU2012-5543
D. Vericat, M. Smith, J.A. López-Tarazón, A. Tena, J. Brasington, and R.J. Batalla
Monitoring Topographic Change In Highly Erodible Landscapes By Means Of Terrestrial Laser Scanning
- XL231 EGU2012-8691
M. Etchebes, P. Tapponnier, Y. Klinger, J. Van Der Woerd, X. Xu, S. Xinzhe, T. Xibin, M. Rizza, and T. Lok
Hang
Application of terrestrial LiDAR topographic data to reconstruct offset geomorphic markers along the Fuyun
strike-slip fault, Xinjiang, China
- XL232 EGU2012-1288
R.M. Frings and S. Vollmer
Use of 3D photogrammetry for measurement of river bed porosity
- XL233 EGU2012-4785
M. Smith and D. Vericat
Evaluating through-water terrestrial laser scanning under a range of flow and suspended sediment conditions

GM2.2 – Digital Landscapes: Quantitative Interrogation and Use to Examine Geomorphic Processes (co-listed) –

Posters

Convener: J. K. Hillier | Co-Conveners: P. Tarolli, P. Passalacqua, D.C. Mason, S. Conway

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Susan Conway

- XL234 EGU2012-4560
A.P. Valentine, L.M. Kalnins, and J. Trampert
Hunting for seamounts using neural networks: learning algorithms for geomorphic studies
- XL235 EGU2012-13482
VB Ernstsen, A. Lefebvre, J. Bartholdy, A. Bartholomä, and C. Winter
On the determination of net bedload transport patterns in a natural tidal inlet system (Knudedyb in the Danish
Wadden Sea)
- XL236 EGU2012-13310
F. Haas, **T. Heckmann**, L. Hilger, and M. Becht
Measuring debris flows in the proglacial area of the Gepatschferner/Austrian Alps using repeat ground-based
and airborne LiDAR data

- XL237 EGU2012-5046
J. K. Hillier and M. S. Smith
Robust 3D Quantification of Glacial Landforms: A Use of Idealised Drumlins in a Real DEM
- XL238 EGU2012-7660
L. Carturan, S. Calligaro, F. Cazorzi, G.A. Baldassi, D. Moro, A. Carton, G. Dalla Fontana, A. Guarnieri, N. Milan, and P. Tarolli
Mass balance and surface dynamics of Montasio Occidentale glacier (Eastern Italian Alps) investigated by Terrestrial Laser Scanner
- XL239 EGU2012-10137
A. J. Cook, T. Murray, A. Luckman, and D. G. Vaughan
A new 100-m Digital Elevation Model of the Antarctic Peninsula suitable for glacier morphology studies, using ASTER Global DEM
- XL240 EGU2012-9296
L. Rieg, R. Sailer, M. Sproß, M. Rutzinger, and V. Wichmann
Comparison of different DTM resolutions for surface change calculations in a high mountain environment
- XL241 EGU2012-8750
S. Trevisani, M. Cavalli, and L. Marchi
Reading alpine morphology according to surface texture: two approaches compared
- XL242 EGU2012-13565
J. B. Salisbury, J R. Arrowsmith, T. K. Rockwell, D. Haddad, O. Zielke, and C. Maddugo
The Climatic Role in Formation of Fault-Offset Geomorphic Features: Reliable Measurements for Slip-Per-Event Studies
- XL243 EGU2012-215
Yu. Yu. Yurchenko and S.V. Sokolov
Experience using of DEM's as a basis for landscapes classification at selection of geochemical methods of prospecting.
- XL244 EGU2012-8510
A. Doglioni and V. Simeone
Identification of large geomorphological anomalies based on 2D discrete wavelet transform
- XL245 EGU2012-3422
C. W. Lin, P. Tarolli, C. M. Tseng, and Y. H. Tseng
Recognition of large scale deep-seated landslides in vegetated areas of Taiwan
- XL246 EGU2012-5000
C.-M. Tseng, P. Tarolli, and C.-W. Lin
Variations of Geomorphic Signatures after a Major Typhoon
- XL247 EGU2012-5035
S. Calligaro, P. Tarolli, M. Mancini, A. Righetto, D. Capraro, G. Mei, and A. Spinazzè
Terrestrial Laser Scanner survey of a small headwater basin in the Dolomites
- XL248 EGU2012-6729
J.-K. Liu, M.-S. Yang, M.-C. Wu, and W.-C. Hsu
LiDAR DEM for Slope regulations of land development in Taiwan
- XL249 EGU2012-9407
L. Cavallari, M. Dierna, M. Gelmini, and **G. P. M. Vassena**
Multiresolution and multisensors 3D laser scanner survey of a landslide in the Italian Apls
- XL250 EGU2012-9865
P. Tarolli and A. Righetto
Regional scale analysis of the topographic signatures of landslide/debris flow dominated processes
- XL251 EGU2012-843
A. Tomczyk and M. Ewertowski
Digital Elevation Models of Differences (DODs): implementation for assessment of soil erosion on recreational trails.
- XL252 EGU2012-914
S. d'Oleire-Oltmanns, I. Marzolf, and L. Schrott
The use of very high resolution DSMs for the investigation of gully evolution in the Souss Basin, Morocco derived from UAV missions
- XL253 EGU2012-12427
J. H. Blöthe, H. Munack, and O. Korup
Sediment storage and stability along the western Tibetan plateau margin
- XL254 EGU2012-3184
F. Cazorzi, A. De Luca, A. Checchinato, F. Segna, and G. Dalla Fontana
A LiDAR based analysis of hydraulic hazard mapping
- XL255 EGU2012-4114
G. Sofia, P. Tarolli, and G. Dalla Fontana
LiDAR DTMs and anthropogenic feature extraction: testing the feasibility of geomorphometric parameters in floodplains

- XL256 EGU2012-4636
M. Della Seta, J.P. Galve, D. Piacentini, and F. Troiani
 Computation, validation and sensitivity of the DTM-derived geomorphic parameters: the case of Stream-Length Gradient Index
- XL257 EGU2012-5363
K. Fieber, I. Davenport, J. Ferryman, R. Gurney, J. Walker, and J. Hacker
 Analysis of full-waveform LiDAR pulse properties for vegetation discrimination and characterisation
- XL258 EGU2012-6172
F. Pirotti, A. Guarnieri, and A. Vettore
 Full waveform airborne laser scanning for mapping morphometric parameters in terrain with varying vegetation cover
- XL259 EGU2012-6345
J. Filski
 The State of Health of Nature Reserves: A Case Study using the Fusion of Hyperspectral and Lidar Data

GMPV4.4 – Recent explosive eruptions: Conduit processes, ash dispersal and effects on aviation (co-listed) – Orals

Convener: M.T. Gudmundsson | Co-Conveners: K. Vogfjord, F. Prata, T. Thordarson, C. Witham

Room: 27

Chairperson: Magnus T. Gudmundsson

- 08:30–08:45 EGU2012-13577
S. Hreinsdottir, F. Sigmundsson, M. Roberts, Þ. Árnadóttir, B. Ófeigsson, R. Grapenthin, E. Sturkell, T. Villemin, R. Bennett, and H. Geirsson
 The 2010 Eyjafjallajökull and 2011 Grímsvötn eruptions: Insights from GPS geodesy
- 08:45–09:00 EGU2012-12722
O. Sigmarsson
 Mafic intrusions triggering eruptions in Iceland
- 09:00–09:15 EGU2012-4569
S.F.L. Watt and D.M. Pyle
 The Chaitén 2008 eruption: explosive eruption characteristics and tephra dispersal
- 09:15–09:30 EGU2012-9382
C. Silva Parejas, L.E. Lara, D. Bertin, A. Amigo, and G. Orozco
 The 2011-2012 eruption of Cordón Caulle volcano (Southern Andes): Evolution, crisis management and current hazards
- 09:30–09:45 EGU2012-7760
J.M. Castro, C. I. Schipper, and H. Tuffen
 Simultaneous pyroclastic and effusive venting at rhyolite volcanoes: the cases of Puyehue-Cordón Caulle and Chaitén
- 09:45–10:00 EGU2012-12154
A. Hoskuldsson, M. Gudmundsson, T. Thordarson, B. Óladóttir, O. Sigmarsson, and G. Larsen
 What makes a primary tephra fall?

COFFEE BREAK

Chairperson: n.n.

- 10:30–10:45 EGU2012-12715
S.A. Carn, K. Yang, and A.J. Prata
 A-Train Satellite Observations of Recent Explosive Eruptions in Iceland and Chile
- 10:45–11:00 EGU2012-6614
A.J. Durant, A.J. Prata, G. Villarosa, W.I. Rose, P. Delmelle, and J. Viramonte
 Long-range volcanic ash transport and fallout during the 2008 eruption of Chaiten volcano, Chile
- 11:00–11:15 EGU2012-7392
K. Turnbull, B. Johnson, S. Newman, L. Clarisse, D. Hurtmans, S. Havemann, F. Marceno, A. Baran, D. O'Sullivan, S. Leadbetter, A. Minikin, B. Weinzierl, H. Schlager, U. Schumann, A. Woolley, and J. Haywood
 In-situ and remote sensing measurements of volcanic ash from airborne and satellite platforms: a case study from the Eyjafjallajökull eruption
- 11:15–11:30 EGU2012-10324
G. Prata, A. Durant, F. Prata, G. Villarosa, J. Viramonte, T. Mather, and D. Pyle
 Transport of fine ash in the southern hemisphere

- 11:30–11:45 EGU2012-9669
G. N. Petersen, H. Bjornsson, P. Arason, and S. von Löwis
Recent eruptions in Iceland from a meteorological perspective
- 11:45–12:00 EGU2012-12854
A. Vogel, **K. Weber**, J. Eliasson, A. Palsson, H.M. Moser, T. Palsson, S. von Löwis, and C. Fischer
Airborne and groundbased measurements of ash particles on Iceland and over Germany during the Grímsvötn eruption May 2011

HS2.6 – Hydrological extremes: from droughts to floods (co-listed) – Orals

Convener: A. Viglione | Co-Conveners: L. M. Tallaksen, G. Laaha, A. Castellarin, J. Szolgay

Room: 36

Chairperson: Alberto Viglione

- 10:30–11:00 EGU2012-1152
G. Di Baldassarre
Flood trends and population dynamics
- 11:00–11:15 EGU2012-6970
S. Westra, J. Evans, R. Mehrotra, and A. Sharma
Disaggregating from daily to sub-daily rainfall under a future climate
- 11:15–11:30 EGU2012-7166
G. Ravazzani, D. Bocchiola, B. Groppelli, A. Soncini, M. C. Rulli, F. Colombo, M. Mancini, and R. Rosso
Continuous streamflow simulation for index flood estimation in an Alpine basin of Northern Italy
- 11:30–11:45 EGU2012-8866
L. Gaál, J. Szolgay, S. Kohnová, J. Parajka, and G. Blöschl
Regional patterns of flood time scales in Austria - interplay of climatological and geological controls
- 11:45–12:00 EGU2012-7721
B. Merz, F. Cioffi, E. Rus Peres, R. Purini, J. Reusser, and U. Lall
From local to global classification of atmospheric circulation patterns associated with some European floods

LUNCH BREAK

Chairperson: Lena Tallaksen

- 13:30–13:45 EGU2012-2429
A.F. Van Loon and H.A.J. Van Lanen
A new perspective on hydrological drought: a process-based classification into different drought types
- 13:45–14:00 EGU2012-794
M. Stoezle, M. Weiler, and K. Stahl
Are streamflow recession characteristics characteristic?
- 14:00–14:15 EGU2012-5133
A.J. Teuling, S.I. Seneviratne, I. Lehner, C. Bernhofer, and A.F. van Loon
The role of evapotranspiration and runoff in the development of recent droughts in Central-Western Europe
- 14:15–14:30 EGU2012-11957
D.F. Lekkas, **S. Anastasiadis**, and K. Mammas
Detection and Statistical Analysis of Severe Drought Events Using Standardized Precipitation Index and Reconnaissance Drought Index, Case Study: Central Aegean Sea, Greece
- 14:30–14:45 EGU2012-5424
E. Sauquet, **J.-P. Vidal**, C. Perrin, P.-Y. Bourgin, M. Chauveau, and S. Chazot
Climate and hydrological uncertainties in projections of flood and low-flows in France
- 14:45–15:00 EGU2012-6625
L. Samaniego, H. Feldmann, R. Kumar, and G. Schaedler
Assessment of soil moisture drought uncertainty using mHM and TERRA-ML simulations in Germany
- Chairperson: Jan Szolgay
- 15:30–16:00 EGU2012-6730
T. Wagener, G. Laaha, D. Koffler, and R. Singh
Hydrologic similarity, comparative hydrology and hydrologic extremes
- 16:00–16:15 EGU2012-5050
M. Nied, Y. Hundecha, and B. Merz
Flood-initiating catchment conditions: A spatio-temporal analysis of soil moisture patterns in the Elbe river basin

- 16:15–16:30 EGU2012-4671
A. Bichler and J. Fürst
Groundwater Flooding: Practical Methods for the Estimation of Extreme Groundwater Levels
- 16:30–16:45 EGU2012-12625
A. Botto, D. Ganora, F. Laio, and P. Claps
Combining uncertainty-estimation techniques and cost-benefit analysis to obtain consistent design-flood estimators
- 16:45–17:00 EGU2012-10652
Dr. C. Donnelly, J. Dahné, Dr. J. Andersson, and Dr. B. Arheimer
Potential Impacts of Climate Change on Hydrological Extremes Across Europe

HS7.1 – Precipitation: from measurement to modelling and application in catchment hydrology (co-listed) – Orals

Convener: R. Uijlenhoet | Co-Conveners: A. Langousis, C. Onof, A. Berne, P. Burlando, T. Bellerby, G. Grossi, A. A. Carsteanu

Room: 33

Chairperson: Remko Uijlenhoet

- 08:30–08:45 EGU2012-100
N. Peleg and E. Morin
Convective rain cells: radar-derived spatio-temporal characteristics and synoptic patterns
- 08:45–09:00 EGU2012-2653
I. Emmanuel, H. Andrieu, E. Leblois, and N. Janey
Influence of rainfall spatial variability on hydrological modelling: a simulation approach
- 09:00–09:15 EGU2012-2692
W. J. Vanhaute, S. Vandenberghe, K. Scheerlinck, B. De Baets, and N. E. C. Verhoest
Improving the extreme value behaviour of Bartlett-Lewis rectangular pulse models
- 09:15–09:30 EGU2012-3317
G. Bruni, J.A.E. ten Veldhuis, T. Otto, and H. Leijnse
Rainfall resolution from weather radars and their application in urban drainage modelling
- 09:30–09:45 EGU2012-3665
O. Rakovec, P. Hazenberg, P. J. J. F. Torfs, A. H. Weerts, and R. Uijlenhoet
Generating spatial precipitation ensembles: impact of temporal correlation structure
- 09:45–10:00 EGU2012-5023
C. J. Skinner, H. Greatrex, T. J. Bellerby, and D. Grimes
Ensemble Characterisation of Precipitation-Uncertainty in the Hydrological Modelling of the Senegal River Basin

COFFEE BREAK

Chairperson: Tim Bellerby

- 10:30–10:45 EGU2012-5430
H. Lebrezn and A. Bárdossy
Defining random and systematic error in precipitation interpolation
- 10:45–11:00 EGU2012-5477
L. Nicotina, A. Hilberts, S. Eppert, and D. Lohmann
Long term modelling of precipitation and temperature at the continental scale
- 11:00–11:15 EGU2012-8904
P.-A. Versini, M. Berreguer, and D. Sempere-Torres
Reconstruction of historical precipitation based on radar fields: application on Catalonia region (Spain)
- 11:15–11:30 EGU2012-9579
J.-C. Huang, C.-K. Yu, J.-Y. Lee, L.-W. Cheng, T.-Y. Lee, and S.-J. Kao
From Tropical Cyclone Tracks to Flood lead-time Predictions over a Mesoscale Mountainous Watershed
- 11:30–11:45 EGU2012-10100
F. Fenicia, L. Pfister, J. Iffly, D. Kavetski, and R. Uijlenhoet
Rainfall estimation with microwave links: a substitute for rain gauges? Results from a long-term experiment in Luxembourg-City.
- 11:45–12:00 EGU2012-10334
M. Savina
Local Area Weather Radar in Alpine Setting

HS7.1 – Precipitation: from measurement to modelling and application in catchment hydrology (co-listed) – Posters

Convener: R. Uijlenhoet | Co-Conveners: A. Langousis, C. Onof, A. Berne, P. Burlando, T. Bellerby, G. Grossi, A. A. Carsteanu

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Remko Uijlenhoet and Tim Bellerby

- A78 EGU2012-1076
A. El Hassan, H. Sharif, H. Xie, J. Terrance, and J. McClelland
Physical Modeling of Hydrologic Processes in South Central Texas
- A79 EGU2012-2908
S.A.P. de Jong, R.W. Hut, R. Bagree, and N.C. van de Giesen
Dense network of disdrometers in an urban environment
- A80 EGU2012-3070
C.Z. van de Beek, H. Leijnse, P. Hazenberg, and **R. Uijlenhoet**
Close-range radar rainfall estimation and error analysis
- A81 EGU2012-3811
C. Liang, F. Van Ogtrop, and V. Willem
Model Sensitivity to Parameters in the Simple 1-D Land-Atmosphere Model
- A82 EGU2012-5652
E. Rabiei, U. Haberlandt, M. Sester, and D. Fitzner
Areal rainfall estimation using moving cars as rain gauges - modeling study and laboratory experiment
- A83 EGU2012-5896
A. Overeem, H. Leijnse, and **R. Uijlenhoet**
Sampling uncertainties of precipitation estimates from satellites using a climatological radar rainfall data set
- A84 EGU2012-5937
A. Overeem, H. Leijnse, and **R. Uijlenhoet**
Country-wide rainfall maps from a commercial cellular telephone network
- A85 EGU2012-6818
C.- A. Chen, C. Chou, and C.- T. Chen
Estimation of Thermodynamic and Dynamic Contribution on Regional Precipitation Intensity and Frequency Changes under Global Warming
- A86 EGU2012-7969
M. Herrnegger and H.-P. Nachtnebel
From runoff to precipitation: Predicting catchment precipitation by inverting a conceptual rainfall-runoff model
- A87 EGU2012-8531
V. Kaleris, A. Langousis, and K. Siampi
Case study for the identification and evaluation of rainfall-runoff models
- A88 EGU2012-10373
A. Paschalis, P. Molnar, S. Fatichi, and P. Burlando
Stochastic modeling of high resolution space-time precipitation fields
- A89 EGU2012-10410
L. Gaal, P. Molnar, and J. Szolgay
Multivariate modelling of storm characteristics on the basis of copulas in Switzerland
- A90 EGU2012-10417
M. Savina and P. Burlando
Alpine radar conversion for LAWR
- A91 EGU2012-10511
M. Heistermann, Th. Pfaff, and **S. Jacobi**
wradlib - An Open Source Library for Weather Radar Data Processing
- A92 EGU2012-11079
A. Verworn and U. Haberlandt
Benefit of merging precipitation from rain gauges and radar for event based and continuous simulations of floods
- A93 EGU2012-11337
E. Volpi, A. Fiori, and M. Di Lazzaro
Exploring the variability of the hydrologic response due to rainfall spatial heterogeneity: Analytical derivations and numerical simulations
- A94 EGU2012-13736
L. Cunha, B. Seo, W. Krajewski, and R. Mantilla
Investigating the effects of rainfall uncertainty on flood prediction across scales
- A95 EGU2012-1711
T. Y. Gan, J. Hanrahan, and C. C. Kuo
Validation of regional precipitation-related indices dynamically downscaled from ERA-Interim Reanalysis Data by a Mesoscale Atmospheric Model

- A96 EGU2012-2400
J.A.E. ten Veldhuis, C. Maksimovic, D. Schertzer, and P. Willems
High resolution rainfall data for urban hydrology, flood modelling and prediction
- A97 EGU2012-3727
S. Grimaldi, A. Petroselli, and N. Romano
Mixing the Green-Ampt model and Curve Number method as an empirical tool for rainfall excess estimation in small ungauged catchments.
- A98 EGU2012-4643
H. Li, C-Y Xu, H. Chen, Z.X. Zhang, and H.L. Xu
Evaluation of interpolating methods for daily precipitation at various station densities
- A99 EGU2012-6227
R. Arsenault and F. Brissette
Determining the optimal spatial distribution of weather station networks for lumped and distributed hydrological modelling purposes using RCM datasets
- A100 EGU2012-9218
K. Vormoor and T. Skaugen
Temporal disaggregation of daily meteorological grid data
- A101 EGU2012-9355
T. Pluntke, D. Pavlik, and C. Bernhofer
Reduction of uncertainty of hydrological modelling using different precipitation inputs
- A102 EGU2012-10469
Y. Derin and K. K. Yilmaz
Evaluation of Multiple Satellite-based Rainfall Products over a Topographically Complex Watershed
- A103 EGU2012-10896
F. Serinaldi and C.G. Kilsby
Analysis and modelling of spatio-temporal properties of daily rainfall over the Danube basin

HS7.2/AS1.20/CL5.16/NH1.3/NP3.6 – Precipitation uncertainty and variability: observations, ensemble simulation and downscaling (co-organized) – Posters

Convener: R. Deidda | Co-Conveners: T. Bellerby, G. Grossi, A. Langousis, X. L. Wang, S. Vogl, P. Laux, H. Kunstmann

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Roberto Deidda

- A104 EGU2012-1147
G. Naumann, P. Barbosa, H. Carrao, A. Singleton, and J. Vogt
Monitoring drought conditions and their uncertainties in areas with sparse precipitation data. Evaluation of different precipitation datasets in Africa.
- A105 EGU2012-2934
R.A.I. Wilcke, T.M. Mendlik, and A.G. Gobiet
Physical Consistency of Multi-Parameter Error-Correction and Downscaling of Regional Climate Models
- A106 EGU2012-3421
M. Siam, M. Nour, and A. Wagdy
A Comparison of Statistical Downscaling Approaches to study the Impacts of Climate Change on the Hydrological Cycle of Upper Blue Nile basin
- A107 EGU2012-3465
R. Remesan and T. Bellerby
Sensitivity and dependence of mesoscale downscaled prediction results on different parameterizations of convection and cloud microphysics
- A108 EGU2012-3680
H. Sharif, C. Furl, and M. Al-Zahrani
Rainfall Climatology over Asir Region, Saudi Arabia
- A109 EGU2012-3922
J. B. Gilmore, J. P. Evans, and S. C. Sherwood
The influence of physics parameterizations on precipitation extremes in the Newcastle east coast low of 2007
- A110 EGU2012-4010
E. Maeda, J. Arevalo, and C. Carmona-Moreno
Effects of time-series length and gauge network density on rainfall climatology estimates in Latin America
- A111 EGU2012-4231
C. Nyunt, H. Yamamoto, A. Yamamoto, T. Nemoto, M. Kitsuregawa, L. Wang, and T. Koike
Bias correction and Downscaling of GCM for basin scale simulation
- A112 EGU2012-4665
E. Mair, G. Bertoldi, S. Della Chiesa, G. Niedrist, L. Egarter Vigl, and U. Tappeiner
An approach to improve precipitation estimation to model the water budget in Alpine catchments

- A113 EGU2012-5087
L. Dobor, Z. Barcza, Á. Havasi, and N. Fodor
Preparation of high resolution climate scenarios for agricultural impact analysis in Hungary
- A114 EGU2012-5859
C. Dobler
Downscaling precipitation extremes in a complex Alpine catchment
- A115 EGU2012-6448
S. Thober, L. Samaniego, and R. Kumar
Evaluation of Regional Climate Models: Extremes important for Hydrological Projections
- A116 EGU2012-6891
N. Ohara, M.L. Kavvas, S. Kure, Z.Q. Chen, and S. Jang
Model-based Estimation of Maximum Precipitation for the 1997 Storm Event Over American River Watershed, California, USA
- A117 EGU2012-7420
S.D. Blazkova, K.J. Beven, and M. Martinkova
Hazard and vulnerability to climate change of the Skalka dam in Czech Republic
- A118 EGU2012-7612
R. Deidda, G. Mascaro, M. Hellies, L. Baldini, and S. Sebastianelli
A systematic analysis of precipitation retrieved by a Polarimetric Doppler ground radar in Central Italy
- A119 EGU2012-7755
A. Langousis and V. Kaleris
A statistical approach to resolve incompatibilities between measured runoff data and daily estimates of spatially averaged rainfall
- A120 EGU2012-8266
Q. Zhang, H. Körnich, and K. Holmgren
How well do reanalyses represent the southern African precipitation?
- A121 EGU2012-8952
I. Anders and K. Haslinger
Varying trends in precipitation and temperature at different elevations in the European Alps? - A regional climate modelling perspective with COSMO-CLM
- A122 EGU2012-9087
R. Sasse, G. Schädler, H. Feldmann, and Ch. Kottmeier
Generation of Regional Climate Ensembles Using Atmospheric Forcing Shifting
- A123 EGU2012-9432
R. Haas, K. Born, A. Georgiadis, M. K. Karremann, and J. G. Pinto
Statistical Downscaling of Large-Scale Wind Signatures Using a Two-Step Approach
- A124 EGU2012-9736
H.L. Cloke, F. Pappenberger, T. Eckel, R. Buizza, and K. Bogner
The probabilistic Forecast Convergence Score (pFCS)
- A125 EGU2012-10021
P-E. Mellander, S.G. Gebrehiwot, A.I. Gärdenäs, W. Bewket, and K. Bishop
Summer Rains in the Upper Blue Nile Basin: half a century of past and future spatiotemporal patterns
- A126 EGU2012-10836
N. Salzmänn, M. Rohrer, D. Acuna, P. Calanca, and C. Hugger
Assessment of future regional precipitation pattern for an Andes region in Southern Peru
- A127 EGU2012-11128
M. Piazza, J. Boe, C. Page, E. Sanchez-Gomez, and L. Terray
21st century snowfall changes over the French Alps : the role of temperature
- A128 EGU2012-11725
M. Gosset and **R. Roca**
Propagation of Rainfall Products uncertainties in hydrological applications : Studies in the framework of the Megha-Tropiques Satellite Mission
- A129 EGU2012-11754
D. D'Onofrio, V. Artale, S. Calmanti, J. von Hardenberg, E. Palazzi, and A. Provenzale
Stochastic rainfall downscaling of the PROTHEUS regional climate model
- A130 EGU2012-11831
M. Giorgio and R. Greco
Modelling of external and internal intermittence of rainfall data via a simple event based stochastic model
- A131 EGU2012-12028
L.G. Lanza, **M. Colli**, and P. La Barbera
On the influence of rain gauge performance on extreme events statistics: the case of weighing gauges
- A132 EGU2012-12045
M. Muerth, B. Gauvin St-Denis, R. Ludwig, and D. Chaumont
Analysis of the effects of correcting biases in RCM precipitation fields with the local intensity scaling method for a small alpine catchment

- A133 EGU2012-13381
S Samadi, C Wilson, H Moradkhani, and S Gummeneni
 Uncertainty analysis of statistically downscaled temperature and precipitation regimes in a semi arid catchment
- A134 EGU2012-13397
E. Tan
 An Investigation of Extreme Precipitation in Turkey
- A135 EGU2012-13458
 M.A. Campo, **J.J. Lopez**, and J.P. Rebole
 Rainfall Stochastic models
- A136 EGU2012-13562
J C Soto-Sandoval and A P Jacquin
 Problems with the interpolation of precipitation amounts in mountainous catchments using traditional techniques
- A137 EGU2012-13611
A. Maire, C. Fouchier, P. Arnaud, and Y. Aubert
 Assessment of the daily areal reduction factor of precipitations with distributed rainfall data: a means of improvement of a prediction method of extremes events in France.
- A138 EGU2012-14167
R. Deidda, G.N. Caroletti, V. Luccarini, M. Marrocu, M. Puliga, G. Pusceddu, and A. Speranza
 An intercomparison and verification of outputs of several climate models on representative Mediterranean catchments

ST5.1/NH1.10/PS5.5 – Space Weather and its Effects on Terrestrial and Geo-Space Environments: Science and Applications (co-organized) – Orals

Convener: V. Pierrard | Co-Conveners: H. Rothkaehl, N. Crosby, M. Menvielle

Room: 24

Chairperson: N. Crosby

- 13:30–13:45 EGU2012-5399
M. Grande
 Planetary Space Weather
- 13:45–14:00 EGU2012-12301
O.E. Malandraki and the SEPServer consortium Team
 Solar Energetic Particle Research within SEPServer - a Space Weather Perspective
- 14:00–14:15 EGU2012-5460
L. Barnard, M. Lockwood, M.J. Owens, C.J. Davis, M.A. Hapgood, and F. Steinhilber
 Long term trends in solar energetic particle events
- 14:15–14:30 EGU2012-3783
P. Stauning
 Relations of PC indices to further geophysical activity parameters.
- 14:30–14:45 EGU2012-9601
A. Janzhura and O. Troshichev
 The PC index: method of calculation and physical sense
- 14:45–15:00 EGU2012-4111
C. Stolle and J. Matzka
 PCN-index derivation at World Data Center for Geomagnetism, Copenhagen, DTU Space

SM5.7/GMPV6.14/NH2.3 – Electromagnetic, seismic and other geophysical methods applied to volcano imaging and monitoring for hazard assessment (co-organized) – Orals

Convener: M. Miensopust | Co-Conveners: M. Hensch, A. G.. Jones

Room: 2

Chairperson: Marion Miensopust, Martin Hensch

- 13:30–13:45 EGU2012-249
S. Aivazpourporgou, S. Thiel, P. Hayman, L. Moresi, and G. Heinson
 Thermal structure of the Newer Volcanic Province, Western Victoria, Australia from a long period Magnetotelluric (MT) array
- 13:45–14:00 EGU2012-12153
P. Wawrzyniak, J. Zlotnicki, P. Sailhac, and G. Marquis
 Resistivity variations associated with the 1998 large eruption at La Fournaise volcano inferred by continuous MT monitoring

- 14:00–14:15 EGU2012-8423
M. Hensch, B. Brandsdóttir, Th. Árnadóttir, and S. Cesca
 Intrusive activity beneath Eyjafjallajökull: Moment- and Stress-Tensor-Inversion of volcanic earthquakes to constrain driving forces of the 2010 eruption
- 14:15–14:30 EGU2012-9804
F. Fuchs, M. Lupi, S. S. Jakobsdóttir, T. Thordarson, and S. A. Miller
 Seismicity revealed in the Snaefellsnes Volcanic Zone, Iceland
- 14:30–14:45 EGU2012-2039
C. Huebscher, M. Ruhnau, and G.A. Dehghani
 Frequent underwater volcanism in the central Aegean Sea
- 14:45–15:00 EGU2012-14405
C.B Papazachos, D. Panagiotopoulos, A.V. Newman, S. Stiros, G. Vougioukalakis, M. Fytikas, T. Laopoulos, K. Albanakis, D. Vamvakaris, E. Karagianni, L. Feng, P. Psimoulis, and F. Moschas
 Quantifying the current unrest of the Santorini volcano: Evidence from a multiparametric dataset, involving seismological, geodetic, geochemical and other geophysical data

SM5.7/GMPV6.14/NH2.3 – Electromagnetic, seismic and other geophysical methods applied to volcano imaging and monitoring for hazard assessment (co-organized) – Posters

Convener: M. Miensopust | Co-Conveners: M. Hensch, A. G.. Jones

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Marion Miensopust, Martin Hensch

- A401 EGU2012-13537
 M. G. Di Giuseppe, A. Troiano, C. Troise, and **G. De Natale**
 Cluster analysis applied to multiparameter geophysical dataset
- A402 EGU2012-10082
K. Meier, M. Hort, and J. Wassermann
 Non-Poissonian Nature of Strombolian Surface Activity at Yasur Volcano, Vanuatu
- A403 EGU2012-5281
A. Siniscalchi, S. Tripaldi, M. Neri, M. Balasco, G. Romano, J. Ruch, and D. Schiavone
 Flank instability structure of Mt Etna inferred by a magnetotelluric survey
- A404 EGU2012-11673
A. Efstathiou, A. Tzanis, S. Chailas, E. Lagios, and M. Stamatakis
 High resolution imaging of the Methana volcanic complex, Greece, with magnetotelluric and aeromagnetic data
- A405 EGU2012-7637
A. Novák, Sz. Harangi, B. Kiss, L. Szarka, and Cs. Molnár
 Combined magnetotelluric and petrologic constrains for the nature of the magma storage system beneath the Ciomadul volcano (SE Carpathians)
- A406 EGU2012-9377
M. Neukirch, X. Garcia, S. Galiana, and E. Roux
 GarField - A MT Survey of the Crustal Structure of the Intraplate Volcanic Region La Garrotxa, Northwestern Spain
- A407 EGU2012-5861
M.P. Miensopust, A.G. Jones, G.P. Hersir, and A.M. Vilhjálmsson
 The resistivity structures around and beneath the Eyjafjallajökull volcano, Southern Iceland: first insides from electromagnetic investigations
- A408 EGU2012-6814
T. J. Lee, J. Yang, J. Choi, S. K. Lee, and Y. Song
 The sea effect in 3D magnetotelluric data obtained in Jeju Island, Korea
- A409 EGU2012-7101
S. Ballmer, C.J. Wolfe, P.G. Okubo, M.M. Haney, and C.H. Thurber
 Studying temporal velocity changes with ambient seismic noise at Hawaiian volcanoes
- A410 EGU2012-1312
K. Whaler, N.E. Johnson, M. Desissa, S. Hautot, S. Fisseha, and G.J.K. Dawes
 Large mantle magma volumes imaged magnetotellurically beneath an active magmatic segment in Afar, Ethiopia
- A411 EGU2012-4870
J. Zlotnicki, F. Li, and M. Parrot
 Detection of electromagnetic anomalies related to volcanic eruptions by DEMETER micro-satellite: August 2004 - December 2010

A412 EGU2012-5762

H. Brenot, N. Theys, J. van Gent, M. Van Roozendaal, R. van der A, L. Clarisse, D. Hurtmans, Y. Ngadi, P.-F. Coheur, and C. Clerbaux
Global multi-sensor satellite monitoring of volcanic SO₂ and ash emissions in support to aviation control

NH3.7 – Large slope instabilities: characterisation, dating, triggering, monitoring and modelling – Orals

Convener: G. Crosta | Co-Conveners: M. Jaboyedoff, F. Agliardi, J. Clague, L. Blikra, O. Korup

Room: 4

Chairperson: n.n.

08:30–08:45 EGU2012-4656

M. Della Seta, S. Martino, and G. Scarascia Mugnozza
The Vasto Landslide (Adriatic coast, central Italy): geomorphological constraints and numerical modelling to reconstruct the evolution of a large instability affecting a coastal slope

08:45–09:00 EGU2012-9743

S. Zerathe, T. Lebourg, R. Braucher, and D. Bourlès
Middle Holocene landslide cluster in the south-western Alps: Results from cosmic ray exposure dating of numerous large-scale gravitational failures

09:00–09:15 EGU2012-10092

V. Lebrouc, L. Baillet, S. Schwartz, D. Jongmans, J. F. Gamond, D. Bourles, O. Le Roux, J. Carcaillet, and R. Braucher
CRE dating on the scarps of large landslides affecting the Belledonne massif (French Alps)

09:15–09:30 EGU2012-7230

T. Pánek, J. Hradecký, K. Šilhán, A.L. Strom, V. Smolková, and O. Zerkal
Megalandslide in the Northern Caucasus foredeep (Uspenskoye, Russia): geomorphology, possible mechanism and age constraints

09:30–09:45 EGU2012-8925

F. X. Yugsi Molina, R. L. Hermanns, G. B. Crosta, J. Dehls, R. Sosio, and S. A. Sepúlveda
Geomorphological analysis, monitoring and modeling of large rock avalanches in northern Chile (Iquique area) for regional hazard assessment.

09:45–10:00 EGU2012-10308

T. Strauhal, C. Zangerl, W. Fellin, and R. Brandner
Geological and structural characterisation of deformation zones of deep seated rockslides in metamorphic rocks

COFFEE BREAK

Chairperson: n.n.

10:30–10:45 EGU2012-11617

F. Agliardi, G.B. Crosta, F. Meloni, C. Valle, C. Rivolta, and D. Leva
Kink zone localization, structurally-controlled instability, and large-scale rock slope failure at the Mt. Gorsa porphyry quarry (Trentino, Italy)

10:45–11:00 EGU2012-10674

K.-T. Chang
Creep behavior of slate slopes explained with numerical modeling

11:00–11:15 EGU2012-11813

G.B. Crosta, P. Cancelli, A. Tamburini, W. Alberto, M. Broccolato, R. Castellanza, P. Frattini, **F. Agliardi**, C. Rivolta, and D. Leva
Chasing a complete understanding of a rapid moving rock slide: the La Saxe landslide

11:15–11:30 EGU2012-10552

M. Walter and M. Joswig
Slide quake generation at softrock-landslides

11:30–11:45 EGU2012-9824

P. Belle, B. Aunay, J.-L. Join, and S. Bernardie
An innovative approach for very large landslide dynamic and hydrogeological triggering study by inverse modeling (Grand Ilet landslide, Reunion Island)

11:45–12:00 EGU2012-13041

J. Singer, K. Thuro, and J. Festl
Time Domain Reflectometry (TDR) monitoring system for deep seated landslides

NH3.7 – Large slope instabilities: characterisation, dating, triggering, monitoring and modelling – Posters

Convener: G. Crosta | Co-Conveners: M. Jaboyedoff, F. Agliardi, J. Clague, L. Blikra, O. Korup

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY469 EGU2012-2609
G. Drakatos, D. Paradissis, D. Anastasiou, P. Elias, A. Marinou, K. Chousianitis, X. Papanikolaou, V. Zacharis, P. Argyrakis, K. Papazisi, and K. Makropoulos
 Development of a monitoring platform for slope instability and sliding prevention : preliminary results
- XY470 EGU2012-10114
J. Festl, J. Singer, and K. Thuro
 Determination of landslide triggering precipitation levels based on time series analysis and numerical models - an exemplary study at the the Aggenalm landslide
- XY471 EGU2012-4017
C.-C. Huang, C.-P. Chang, and S.J. Giletycz
 Typhoon-triggered landslides and regional geological structure: case from Typhoon Morakot in Taiwan
- XY472 EGU2012-6278
K.-L. Wang, J.-T. Liao, C.-W. Chen, M.-L. Lin, and H.-H. Lin
 Sliding Threshold Identification of a Deep-Seated Potential Landslide
- XY473 EGU2012-6691
J.-C. Chen, M.-R. Chuang, C.-J. Jeng, and J.-S. Wang
 An application of the FLO-2D Model to debris-flow simulation - a case study of Shinfa village in southern Taiwan
- XY474 EGU2012-6796
W.-S. Huang, M.-L. Lin, H.-C. Liu, and H.-H. Lin
 Abduction of Toe-excavation Induced Failure Process from LEM and FDM for a Dip Slope with Rock Anchorage in Taiwan
- XY475 EGU2012-9953
S. Bernardie and B. Aunay
 Modelling the behaviour of a large landslide in Reunion Island (Grand Ilet)
- XY476 EGU2012-4968
 C. Cioli, R. Genevois, M. lafelice, and **L. Zorzi**
 Numerical analysis of the creeping behavior of the S. Andrea di Perarolo secondary landslide (Italian Eastern Alps)
- XY477 EGU2012-6003
P. Lollino, M.G. Angeli, F. Ardizzzone, F. Calò, M. Cardinali, R. Castaldo, F. Fiorucci, F. Guzzetti, A. Manconi, M. Manunta, M. Manzo, L. Paglia, F. Pontoni, P. Reichenbach, M. Rossi, and P. Tizzani
 Kinematic evolution of the Ivancich landslide: analysis, characterization and numerical modelling
- XY478 EGU2012-10977
J.M Reitner, S. Ivy-Ochs, V. Alfimov, I. Hajdas, and C. Janda
 Pre-historic rockslides (Eastern Alps/Austria) and their impact on valley floor development up to now
- XY479 EGU2012-11511
 M. J. Rodríguez-Peces, J. V. Pérez-Peña, J. M. Azañón, and **C. Ureña**
 The Dúdar landslide: a huge slope instability associated to active tectonics in the NE border of the Granada Basin (SE Spain)
- XY480 EGU2012-12829
A. Guerricchio and V. Simeone
 Deep seated gravitational slope deformations and large landslides: implications on landslide hazard of urban areas and coastal erosion phenomena of Mount Poro headland
- XY481 EGU2012-12886
A. Guerricchio, A. Doglioni, and V. Simeone
 Deep seated tectonic-gravitative failure and large landslide in the area from Scilla to Punta Pezzo (Calabria region South Italy)
- XY482 EGU2012-13255
H. Fukuoka, H. Akao, D. Miyauchi, A. Okamoto, T. Kawase, M. Ichimura, D. Chifu, and K. Inui
 Low H/V and its volume dependency of landslides on the lunar crater rims
- XY483 EGU2012-8880
A. Akgün
 Determination of adverse effects of landslide generated impulse waves in a dam reservoir by using empirical approaches: a case study from North Turkey
- XY484 EGU2012-11343
G. Crosta, R.L. Hermanns, E. Valbuzzi, J. Dehls, F.X. Yugsí Molina, and S. Sepulveda
 Slope instabilities along the Western Andean Escarpment and the main canyons in Northern Chile

- XY485 EGU2012-11469
G. Crosta, R.L. Hermanns, and P. V. Murillo
 Large rock avalanches in southern Peru: the Cerro Caquilluco - Cerrillos Negros rock slide - avalanche (Tacna, Tomasiri, Peru)
- XY486 EGU2012-11496
G.B. Crosta, F. Agliardi, R. Sosio, C. Rivolta, D. Leva, and L. Dei Cas
 Long term real-time monitoring of large alpine rockslides by GB-InSAR: mechanisms, triggers, scenario assessment and Early Warning
- XY487 EGU2012-9741
L. Moretti, A. Mangeney, Y. Capdeville, E. Stutzmann, A. Lucas, C. Huggel, D. Schneider, G.B. Crosta, and F. Bouchut
 Numerical modeling and characterization of rock avalanches and associated seismic signal
- XY488 EGU2012-12292
B. Matasci, A. Pedrazzini, F. Humair, G. Pedrozzi, D. Carrea, A. Loye, and M. Jaboyedoff
 MONTE GENEROSO ROCKFALL FIELD TEST (SWITZERLAND): Comparison between real rockfall volumes measurements and production calculations

NH3.10 – Documentation and monitoring of landslides and debris flows for mathematical modelling and design of mitigation measures – Orals

Convener: L. FRANZI | Co-Conveners: M. Arattano, M. Arai

Room: 8

Chairperson: n.n.

- 15:30–15:45 EGU2012-2727
N. Lafarge, G. Chambon, J.C. Thouret, and D. Laigle
 Rheological behaviour of lahar flow
- 15:45–16:00 EGU2012-10585
D. Gauthier and D.J. Hutchinson
 The material, morphological, and mechanical similarities between sensitive clay landslides and dry snow slab avalanches: Implications and applications
- 16:00–16:15 EGU2012-291
V.O. Mikhaylov and S.S. Chernomorets
 Discrete element simulation of rockfalls, landslides and debris flows
- 16:15–16:30 EGU2012-7906
Y. Deubelbeiss and B. W. McArdeil
 Dynamic modelling of debris flow erosion and deposition with application to the USGS debris flow flume experiments
- 16:30–16:45 EGU2012-6226
R. Ziade, C. Abdallah, and N. Baghdadi
 Mass Movement Hazards in the Mediterranean; A review on applied techniques and methodologies
- 16:45–17:00 EGU2012-9303
C. Mignelli, S. Pomarico, and D. Peila
 Multicriteria Analysis model for the comparison of different rockfalls protection devices

NH3.10 – Documentation and monitoring of landslides and debris flows for mathematical modelling and design of mitigation measures – Posters

Convener: L. FRANZI | Co-Conveners: M. Arattano, M. Arai

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Franzi Luca

- XY489 EGU2012-1472
 I canelli, **a.m. ferrero**, and a. segalini
 Debris Flow Risk mitigation by the means of flexible barriers. Experimental and field tests.
- XY490 EGU2012-2884
B.-S. Lin, C.-Y. Hsiao, W.-Y. Leung, and S.-Y. Chi
 Using Airborne LiDAR Technology to Analyze Landslide Hazards in Shih-men Watershed
- XY491 EGU2012-3535
A. De Agostini, M. Floris, P. Pasquali, M. Barbieri, A. Cantone, P. Riccardi, G. Stevan, and R. Genevois
 The contribute of DInSAR techniques to landslide hazard evaluation in mountain and hilly regions: a case study from Agno Valley (North-Eastern Italian Alps)

- XY492 EGU2012-5956
D. Dallavalle, P. Scotton, and R. Genevois
 \\textbf{THE DEBRIS-FLOW MONITORING SYSTEM OF ACQUABONA TORRENT (Cortina D'Ampezzo, BL, Italy).}
- XY493 EGU2012-6719
M. Arai
 A research of phase velocity of roll waves for debris flow
- XY494 EGU2012-7597
F. Bettella, G. Bertoldi, E. Pozza, B.W. McArdell, and V. D'Agostino
 A comparative 2D modeling of debris-flow propagation and outcomes for end-users
- XY495 EGU2012-10056
 S Adami, M Bresolin, M Carraretto, P Castelletti, D Corò, F Di Mario, S Fiaschi, T Frasson, L Gandolfo, L Mazzalai, T Padovan, F Sartori, A Viganò, A Zulian, A De Agostini, M Pajola, and **M Floris**
 An unconventional GIS-based method to assess landslide susceptibility using point data features
- XY496 EGU2012-10209
G. Tessari, C. Cioli, M. Floris, G. Stevan, and R. Genevois
 A flexible system of remediation to stabilize a road affected by landslide in the area of Val di Maso (North-Eastern Italian Apls)
- XY497 EGU2012-10331
M. Rosso, P. Alfredini, L. Magni, R. de Oliveira Sakai, H. de Melo Witiski, and W. C. de Sousa Junior
 Numerical simulation model of debris flow for the Santo Antônio Catchment, in Caraguatatuba, São Paulo State North Coast, Brazil
- XY498 EGU2012-13728
K.B. Jaafar
 Heavy rainfall intensity triggering the landslide at Sungai Ruil Cameron Highland Malaysia - A Case study

NH3.11 – Landslide hazard and risk assessment, and landslide management – Orals

Convener: P. Reichenbach | Co-Conveners: F. Guzzetti, A Günther

Room: 4

Chairperson: Gunther

- 13:30–13:45 EGU2012-11244
J. Hervás and M. Van Den Eeckhaut
 Analysis of national and regional landslide inventories in Europe
- 13:45–14:00 EGU2012-7655
 A. Trigila, **F. Catani**, N. Casagli, G. Crosta, C. Esposito, P. Frattini, C. Iadanza, D. Lagomarsino, S. Lari, G. Scarascia Mugnozza, S. Segoni, D. Spizzichino, and V. Tofani
 The landslide susceptibility map of Italy at 1:1 Million scale
- 14:00–14:15 EGU2012-11119
M. Fressard, Y. Thiery, and O. Maquaire
 Landslide susceptibility assessment in the Pays d'Auge plateau (Normandy, France): application at different scales
- 14:15–14:30 EGU2012-7437
H. Petschko, A. Brenning, J. Goetz, R. Bell, and T. Glade
 Assessing the quality of landslide susceptibility maps for Lower Austria
- 14:30–14:45 EGU2012-4214
M.C. Morandi, E. Farabegoli, and G. Onorevoli
 Root reinforcement and its implications in shallow landsliding susceptibility on a small alpine catchment
- 14:45–15:00 EGU2012-7920
P. Salvati, C. Bianchi, M. Rossi, and F. Guzzetti
 Landslide risk to the population and its temporal and geographical variation in Italy
- Chairperson: Reichenbach
- 15:30–15:45 EGU2012-1656
E. Intrieri, G. Gigli, F. Mugnai, R. Fanti, and N. Casagli
 Landslide management through the design and implementation of an early warning system
- 15:45–16:00 EGU2012-834
F E Taylor and B D Malamud
 Modelling the Probability of Landslides Impacting Road Networks
- 16:00–16:15 EGU2012-8099
L. Vranken, P. Van Turnhout, M. Van Den Eeckhaut, L. Vandekerckhove, G. Vantilt, and J. Poesen
 Assessing the Economic Cost of Landslide Damage in Low-Relief Regions: Case Study Evidence from the Flemish Ardennes (Belgium)

- 16:15–16:30 EGU2012-9102
M. Sonnleitner, **P. Nicolet**, M. Choffet, and M. Jaboyedoff
Risk to housing induced by slow-moving landslides and reactivations in Vaud County (Switzerland)
- 16:30–16:45 EGU2012-9695
R. Pellicani, G. Spilotro, and C.J. Van Westen
Quantify landslide exposure in areas with limited hazard information
- 16:45–17:00 EGU2012-10921
F. Marques, R. Matildes, and P. Redweik
Sea cliff instability susceptibility at regional scale: A statistically based assessment in southern Algarve, Portugal.

NH3.11 – Landslide hazard and risk assessment, and landslide management – Posters

Convenor: P. Reichenbach | Co-Conveners: F. Guzzetti, A Günther

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Guzzetti

- XY499 EGU2012-12457
M. Santangelo, F. Bucci, M. Cardinali, I. Marchesini, M. Rossi, and F. Guzzetti
Morpho-structural influences on landslide pattern and distribution: Grass GIS tool application.
- XY500 EGU2012-13454
A. Kosir and T. Popit
Quaternary paleolandslides on Rebrnice (SW Slovenia): stratigraphy, sedimentary architecture, geomorphic processes and landslide hazards
- XY501 EGU2012-4411
M. Parise
Multi-temporal analysis of slope movements in the Southern Apennines of Italy
- XY502 EGU2012-8286
S. Lo Russo, M.G. Forno, G. Taddia, and L. Gnani
Predisposing factors and susceptibility assessment for deep-seated gravitational slope deformations (DSGSDs): a case study (NW Alps, Italy)
- XY503 EGU2012-1443
S. Pereira, J. L. Zêzere, and C. Bateira
Assessing predictive capacity and conditional independence of landslide predisposing factors for shallow landslides susceptibility models
- XY504 EGU2012-4694
C.-H. Wang and C.-M. Tseng
Evaluation the influence of Landslide Density in the Constructed Landslide Susceptibility Models: An Example from Lao-Nong River Watershed, Taiwan
- XY505 EGU2012-12599
J.M. Azañón, V. Pérez-Peña, J.M. Yesares, F.J. Roldán, R.M. Mateos, J. Rodríguez-Fernández, M.J. Rodríguez-Peces, and **C. Ureña**
Landslide susceptibility in the Sierra Nevada National Park (SE Spain) using a multivariate statistics method.
- XY506 EGU2012-7582
M. C. Margarint, A. Grozavu, and C. V. Patriche
Assessing the spatial variability of weights of landslide causal factors in different regions from Romania, using logistic regression
- XY507 EGU2012-12560
Z. Chitu, D. Micu, I. Sandric, and B. Mihai
Estimation of rainfall thresholds for the initiation of landslides in the Ialomita Subcarpathians, Romania
- XY508 EGU2012-1596
IP Pesevski, MJ Jovanovski, BM Markovski, and IM Milevski
An approach in preparation of National Landslide and Rock Fall database and Hazard-Risk maps in R. Macedonia
- XY509 EGU2012-12429
I. Sandric, B. Mihai, G. Petropoulos, and Z. Chitu
Image segmentation and irregular shapes versus pixels in landslides hazards assessment
- XY510 EGU2012-7175
J. Voumard, M. Jaboyedoff, and M.-H. Derron
A dynamic traffic simulator for roads affected by natural hasards
- XY511 EGU2012-6946
C.-T. Lee, C.-W. Chang, and **S.-H. Lin**
Landslide Hazard Analysis and Mapping in a Wide Region

- XY512 EGU2012-2223
C.-M. Huang, W.-K. Huang, and S.-Y. Chi
Development of a real-time susceptibility evaluation for rainfall-induced landslide on a regional scale in Taiwan
- XY513 EGU2012-3957
L. K. Chen, C. H. Liu, S. C. Lin, and T. Y. Wu
Discussion on Investigation Methods for Large-scale Landslide Disasters on Taiwan
- XY514 EGU2012-2421
Z.-Y. Feng, Z.-Z. Ding, K.-C. Chang, H.-Y. Lai, and S.-C. Chen
The mechanism and mitigation of the landslides of Leye region in Alishan, Taiwan
- XY515 EGU2012-6528
Z. C. Aye, M. Jaboyedoff, and M. H. Derron
An Integrated Web-based Decision Support System in Disaster Risk Management
- XY516 EGU2012-5988
H.-B. Havenith, **S. Draidia**, and C. Benabbas
Impact of large slope movements on the construction of a major highway in the Constantine Province, North-East Algeria
- XY517 EGU2012-7281
P. Nicolet, M. Choffet, O. Caspar, L. Foresti, and M. Jaboyedoff
Risk back-analysis of the landslides produced by the August 2005 rainfall event in Switzerland
- XY518 EGU2012-13718
B. Quan Luna, **J. Cepeda**, A. Stumpf, C.J. van Westen, J.P. Malet, and T.W.J. van Asch
Application of a Monte Carlo method for modeling debris flow run-out
- XY519 EGU2012-7946
E. J Choi, B. J Kim, D. W Wi, N. C Choi, S. J Lee, J. E Min, and C. Y Park
Characteristics of leachate in Foot and Mouth Disease Carcass Disposal using Molecular Biology Method

SM5.4/NH4.6 – Time-dependent earthquake occurrence and seismic hazard: physics and statistics (co-organized) –

Orals

Convener: G. Zöller | Co-Conveners: S. Hainzl, M. Cocco, M. Naylor

Room: 26

Chairperson: Sebastian Hainzl

- 10:30–11:00 EGU2012-8976
J. Schmittbuhl, M. Bouchon, H. Karabulut, M. Aktar, S. Özalaybay, O. Lengliné, V. Durand, and M.P. Bouin
Micro-Seismicity and Large Earthquake nucleation in Marmara Sea Region
- 11:00–11:15 EGU2012-8003
V. Durand, M. Bouchon, H. Karabulut, D. Marsan, and J. Schmittbuhl
Link between Coulomb stress changes and seismic activation in the Marmara sea after the Izmit (Turkey) earthquake
- 11:15–11:30 EGU2012-10344
S. S. Nalbant, J. McCloskey, S. Murphy, N. Simao, and T. Lindsay
Modelling Long-term Stress on the Sunda Megathrust and Implications for Earthquake Forecasting
- 11:30–11:45 EGU2012-10462
J. McCloskey, S. S. Nalbant, N. Simao, and T. Lindsay
Long Term Slip Deficit Modelling for the Sunda Megathrust beneath the Mentawai Islands, Sumatra
- 11:45–12:00 EGU2012-9357
K. Koketsu, Y. Yokota, N. Kato, and T. Kato
Identification and simulation of seismic supercycles along the Japan Trench including the 2011 Tohoku earthquake

LUNCH BREAK

Chairperson: Gert Zöller

- 13:30–13:45 EGU2012-10109
G. B. Brietzke, S. Hainzl, and G. Zöller
Synthetic Earthquake Statistics From Physical Fault Models for the Lower Rhine Embayment
- 13:45–14:00 EGU2012-2677
I. Mosca, R. Console, and G. D'Addezio
Renewal models of seismic recurrence applied to paleoseismological and historical observations

- 14:00–14:15 EGU2012-9029
B. Mena Cabrera, S. Wiemer, and C. E. Bachmann
 Building robust models to forecast the induced seismicity related to geothermal reservoir enhancement
- 14:15–14:30 EGU2012-9778
C. Bach and S. Hainzl
 Improving empirical aftershock modeling using additional source information
- 14:30–14:45 EGU2012-12936
S. Steacy, M. Gerstenberger, C. Williams, D. Rhoades, and A. Christophersen
 Statistical and hybrid statistical/Coulomb modelling of the Canterbury earthquake sequence
- 14:45–15:00 EGU2012-3536
 M. Holschneider, **C. Narteau**, P. Shebalin, Z. Peng, and D. Schorlemmer
 Bayesian analysis of the modified Omori law
- Chairperson: Massimo Cocco
- 15:30–16:00 EGU2012-13170
M. J. Werner and A. M. Rubin
 Spatial Distributions of Foreshocks and Aftershocks: Static or Dynamic Triggering
- 16:00–16:15 EGU2012-2403
Dr. M. Baiesi, Dr. J. Davidsen, and C. Gu
 Triggering cascades and statistical properties of aftershocks
- 16:15–16:30 EGU2012-5007
M. Holschneider, G. Zöller, and S. Hainzl
 On the statistical analysis of maximal magnitude
- 16:30–16:45 EGU2012-4350
N. Hirata, S. Yokoi, K.Z. Nanjo, and H. Tsuruoka
 A forecast experiment of earthquake activity in Japan under Collaboratory for the Study of Earthquake Predictability (CSEP)
- 16:45–17:00 EGU2012-13297
D. Albarello and M. Mucciarelli
 Empirical testing of earthquake recurrence models at source and site

SM5.4/NH4.6 – Time-dependent earthquake occurrence and seismic hazard: physics and statistics (co-organized) –

Posters

Convener: G. Zöller | Co-Conveners: S. Hainzl, M. Cocco, M. Naylor

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Mark Naylor

- A373 EGU2012-1291
E. Sasorova and B. Levin
 The comparative analysis of the seismicity in subduction and spreading zones.
- A374 EGU2012-1624
P. Paradisopoulou, E. Papadimitriou, J. Mirek, and V. Karakostas
 Probability distribution on faults near the city of Thessaloniki (Northern Greece)
- A375 EGU2012-2325
G. Vergos, D.N. Arabelos, and M. E. Contadakis
 Evidence for Tidal triggering on the earthquakes of the Hellenic Arc, Greece.
- A376 EGU2012-7248
O. Lengliné, J. Schmittbuhl, G. Daniel, H. Karabulut, V. Durand, M. Bouchon, and M.-P. Bouin
 Recent seismicity in the Cinarcik basin, east Marmara: swarm activity on localized earthquake clusters
- A377 EGU2012-9202
K. Leptokaropoulos, E. Papadimitriou, B. Orlecka-Sikora, and V. Karakostas
 Stress Field Variation after the 2001 Skyros Earthquake, Greece, Derived from Seismicity Rate Changes
- A378 EGU2012-9650
D. De Gaetano, J. McCloskey, and S. Nalbant
 The systematic study of the stability of forecasts in the rate- and state-dependent model.
- A379 EGU2012-11320
M. Nic Bhloscaidh, J. McCloskey, S. S. Nalbant, and C. J. Bean
 Statistical quantification of time-dependence in the static Coulomb model
- A380 EGU2012-2584
F. Maccaferri, E. Rivalta, L. Passarelli, and S. Jonsson
 The stress shadow induced by the 1975-1984 Krafla rifting event
- A381 EGU2012-5593
G. Zöller and Y. Ben-Zion
 Modeling spatio-temporal variations of seismicity in the San Jacinto Fault Zone

- A382 EGU2012-7266
S. Hainzl and D. Marsan
Seismicity driven by transient aseismic processes: Detection and statistical modeling
- A383 EGU2012-8602
A.K. Adamaki, E.E. Papadimitriou, V.G. Karakostas, and G.M. Tsaklidis
Statistical Analysis Of Seismicity Rate Changes As Precursors Of Strong Earthquakes
- A384 EGU2012-4517
G. Georgoulas, **A. Konstantaras**, E. Maravelakis, E. Katsifarakis, and C.D. Stylios
On the problem of earthquake correlation in space and time over large distances
- A385 EGU2012-8645
T. Harada and K. Ishibashi
Remarkable recurrence of M~7- intermediate-depth earthquakes beneath the Hindu Kush
- A386 EGU2012-3443
M. Imoto, H. Fujiwara, and B. Enescu
M8 earthquakes in Kanto likely triggered by large events along the Japan Trench
- A387 EGU2012-9564
I Votsi, N Limnios, G Tsaklidis, and E Papadimitriou
Estimation of the occurrence rate of strong earthquakes based on hidden semi-Markov models
- A388 EGU2012-11579
A. Tzanis and F. Vallianatos
Multidimensional earthquake frequency distributions consistent with self-organization of complex systems: The interdependence of magnitude, interevent time and interevent distance
- A389 EGU2012-13708
A. Ramírez-Rojas, E. L. Flores-Marquez, and **S. Valverde-Esparza**
Weibull Characterization of inter-event lags of Earthquakes occurred in the Pacific Coast of Mexico
- A390 EGU2012-11791
P. Shebalin, **C. Narteau**, J. Zechar, and M. Holschneider
Combining earthquake forecast models using differential probability gains
- A391 EGU2012-12888
R.A. Clements, Á. González, and D. Schorlemmer
The Testability of Mmax Estimates
- A392 EGU2012-14379
D. Vamvakaris, C.B. Papazachos, Ch. Papaioannou, E.M. Skordilis, and G.F. Karakaisis
Time-dependent seismic hazard using synthetic catalogs for the broader Aegean area: Quantifying the effect of uncertainty of time-dependent mainshock predictions on seismic hazard
- A393 EGU2012-7737
B. Polidoro, I. Iervolino, E. Chioccarelli, and M. Giorgio
Time dependent seismic hazard
- A394 EGU2012-9152
D.H. Rood, R. Anooshehpour, G. Balco, J. Brune, R. Brune, L. Grant Ludwig, K. Kendrick, M. Purvance, and I. Saleeby
Testing seismic hazard models with Be-10 exposure ages for precariously balanced rocks
- A395 EGU2012-3836
M. Chavez, M. Ashworth, E. Cabrera, D. Emerson, A.. Salazar, N. Perea, and Ch. Moulinec
HPC modeling of the wave propagation of extreme magnitude earthquakes
- A396 EGU2012-6842
C. H. Sung and C.-T. Lee
Analysis of Single-Path Sigma Using SMART-1 Array Data in Taiwan
- A397 EGU2012-13666
C. Abril, M.L. Bermúdez, and M.C. Dimaté
Attenuation Relationships for Colombian Seismic Hazard Assessment
- A398 EGU2012-9451
S. Lennartz, I. G. Main, M. Zaiser, and F. Kun
Effect of ageing in fibre bundle models on the evolution of acoustic and silent damage in time-dependent failure
- A399 EGU2012-3322
W B Shen, D Wang, C Hwang, and H Ding
Detecting anomalous gravity signals prior to earthquakes larger than Mw7.0 based on a superconducting gravimeter records in recent four years
- A400 EGU2012-4080
E. Tsiapas, D. Soumelidou, and C. Tsiapas
EARTHQUAKES - VOLCANOES(Causes - Forecast - Counteraction)

Convener: S. Cesca | Co-Conveners: B. Orlecka-Sikora, A. F. do Nascimento, S. Turuntaev, J. Suckale

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: S.B. Turuntaev

- A345 EGU2012-8158
A.V. Kononov, V.N. Patrikeev, D.A. Safonov, and T.V. Nagornyh
The 12 June 2005 Mw 5.6 seismic event near the offshore Piltun-Astokhskoye oil field production area, Northeastern Sakhalin Island (Russia): was it induced?
- A346 EGU2012-9964
D. Kraaijpoel and B. Dost
Analysis of subsalt induced seismicity in the Netherlands
- A347 EGU2012-1972
F. Grigoli, S. Cesca, T. Braun, J. Philipp, and T. Dahm
Automated seismic event location by arrival time stacking: Applications to local and micro-seismicity
- A348 EGU2012-5333
L. Rudzinski and W. Debski
Extending the Double Difference location technique - improving depth resolution
- A349 EGU2012-3622
S.V. Vorokhobina and S.B. Turuntaev
Investigation of the seismic activity under the blasting influence
- A350 EGU2012-1477
S. Cesca, S. Monna, D. Kaiser, and T. Dahm
Imaging velocity and attenuation anomalies in mining environments using Acoustic Emissions
- A351 EGU2012-1500
S. Maghsoudi, S. Cesca, S. Hainzl, D. Kaiser, and T. Dahm
Spatiotemporal patterns of acoustic emission (AE) activity in salt mine
- A352 EGU2012-4738
Y. Xu and C.H. Zhang
Seismic responses of Baozhusi gravity dam upon MS 8.0 Wenchuan Earthquake
- A353 EGU2012-2009
K. Pavlou, V. Kouskouna, K. Makropoulos, G. Drakatos, and P. Petrou
Pournari Dam (W. Greece) Impoundment and Triggered Seismicity
- A354 EGU2012-5973
G. Yfantis, S. Pytharouli, R. Lunn, A.F. Do Nascimento, and M. Takeya
Towards the optimisation of landslide monitoring using short-period seismometers.

SM2.4/G3.7/NH4.8/TS8.6 – Investigating earthquake physics through source imaging and scaling studies (co-organized) – Orals

Convener: G. Kwiatek | Co-Conveners: H. Sudhaus, R. M. Harrington, P.M. Mai, A. Piatanesi

Room: 26

Chairperson: n.n.

- 08:30–08:45 EGU2012-5287
G.A. Prieto, M. Florez, S.A. Barrett, G.A. Lopez, and G.C. Beroza
Earthquake source scaling, stress drops and seismic efficiency of intermediate-depth earthquakes
- 08:45–09:00 EGU2012-1471
R. Davi and V. Vavrycuk
Moment tensor inversion using uncalibrated sensors
- 09:00–09:15 EGU2012-4321
A. Oth
Lateral stress drop variations and the Tohoku aftershocks in the context of earthquake source characteristics in Japan
- 09:15–09:30 EGU2012-1708
V.M. Zobin
Source scaling of volcanic eruption seismicity
- 09:30–09:45 EGU2012-5349
K. Chanard, **A. Schubnel**, S. Nielsen, S. Vinciguerra, J. Tadeucci, and R. Madariaga
Radiation of kinked faults in laboratory earthquakes
- 09:45–10:00 EGU2012-11388
S. Latour, T. Gallot, S. Catheline, F. Renard, C. Voisin, M. Campillo, E. Larose, B. Vial, and A. Richard
Dynamic friction of soft solids studied by ultrasonic speckle interferometry: slow slip and supershear rupture
-

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

Convener: S. Tinti | Co-Conveners: H. Hebert, I. Didenkulova, Dominey-Howes

Room: 1

Chairperson: n.n.

- 10:30–10:45 EGU2012-3929
H. Ichihara, Y. Hamano, K. Baba, and T. Kasaya
 Tsunami source estimation of the 2011 Tohoku-oki earthquake (M9.0) and its foreshock (M7.3) using ocean bottom magnetic signals
- 10:45–11:00 EGU2012-3455
H. Matsumoto, T. Ohmachi, and S. Inoue
 Interpretations of water pressure response during the 2011 Tohoku earthquake
- 11:00–11:15 EGU2012-6553
E. Okal
 Seismic records of the 2010 and 2011 tsunamis
- 11:15–11:30 EGU2012-83
 B.H. Choi, B.I. Min, T. Yoshinobu, K.O. Kim, and **E. Pelinovsky**
 Comparable Analysis of the Distribution Functions of Runup Heights of the 1896, 1933 and 2011 Japanese Tsunamis in the Sanriku Area
- 11:30–11:45 EGU2012-4612
 A. Hoechner, M. Ge, and **A. Babeyko**
 Rapid tsunami early warning using real-time GPS: Reviewing the 2011 Tohoku event
- 11:45–12:00 EGU2012-10487
P. Monardez, R. Salinas, and D. Comte
 Hydrodynamics of tsunamis in subduction zones. The differences between the Chile 2010 and Japan 2011 tsunamis

LUNCH BREAK

Chairperson: n.n.

- 13:30–13:45 EGU2012-2242
M. González, P. González-Riancho, O.Q. Gutiérrez, O. García-Aguilar, I. Aniel-Quiroga, I. Aguirre, J.A. Alvarez, F. Gavidia, I. Jaimes, and J.A. Larreynaga
 Tsunami hazard and risk assessment in El Salvador
- 13:45–14:00 EGU2012-2601
I. Vilibic, S. Monserrat, A. Amores, V. Dadic, I. Fine, K. Horvath, D. Ivankovic, M. Marcos, H. Mihanovic, S. Pasquet, A.B. Rabinovich, J. Sepic, N. Strelec Mahovic, and P. Whitmore
 Meteorological tsunamis along the U.S. coastline
- 14:00–14:15 EGU2012-9246
N. Rakowsky, S. Harig, A. Androsov, A. Fuchs, A. Immerz, J. Schröter, and W. Hiller
 Operational Tsunami Modelling with TsunAWI for the German-Indonesian Tsunami Early Warning System: Recent Developments
- 14:15–14:30 EGU2012-7213
O. Necmioglu, A. Rudloff, L.M. Matias, F. Schindele, M. Comoglu, and N. Meral Ozel
 NEAMTWS-ECTE1: The First Enlarged Communication Test Exercise of the Tsunami Early Warning and Mitigation System in the North-eastern Atlantic, the Mediterranean and connected seas
- 14:30–14:45 EGU2012-5411
A. Lomax and A. Michellini
 Tsunami early warning within 5 minutes
- 14:45–15:00 EGU2012-5457
L. Bressan and S. Tinti
 Test of TEDA (Tsunami Early Detection Algorithm) on the 11 March 2011 Tohoku tsunami marigrams

Chairperson: n.n.

- 15:30–15:45 EGU2012-11787
N. Kalligeris, E. Flouri, E. Okal, and C. Synolakis
 The AD 365 earthquake: high resolution tsunami inundation for Crete and full scale simulation exercise
- 15:45–16:00 EGU2012-9600
T. Novikova, M. Ezz, A. Kijko, and G. A. Papadopoulos
 The large earthquake and tsunami of AD 365 in the Hellenic Arc revisited: implications for tsunami hazard assessment

- 16:00–16:15 EGU2012-4200
G. K. Pedersen, F. Løvholt, **S. Glimsdal**, and C. B. Harbitz
Title: Dispersive tsunamis; does it really matter?
- 16:15–16:30 EGU2012-12834
J.C. Laso Bayas, C. Marohn, G. Dercon, S. Dewi, H.P. Piepho, L. Joshi, M. van Noordwijk, and G. Cadisch
Coastal vegetation and its influence on the 2004 tsunami event
- 16:30–16:45 EGU2012-10395
J. M. González-Vida, M.J. Castro, C. Sánchez-Linares, and M. de la Asunción
Simulation of landslide-generated tsunamis with the HySEA platform: Application to the the Lituya Bay 1958 tsunami
- 16:45–17:00 EGU2012-13532
B.C. McFall, F. Mohammed, and H.M. Fritz
Tsunamis generated by unconfined deformable granular landslides in various topographic configurations

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

Convener: S. Tinti | Co-Conveners: H. Hebert, I. Didenkulova, Dominey-Howes

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Dale Dominey-Howes, Ira Didenkulova

- XY520 EGU2012-76
C. Finkl and **E. Pelinovsky**
A review of potential tsunami impacts to the Suez Canal
- XY521 EGU2012-105
I. Didenkulova and E. Pelinovsky
Nonlinear wave runup in long bays and firths: Samoa 2009 and Tohoku 2011 tsunamis
- XY522 EGU2012-7031
G. Shevchenko, A. Shishin, and E. Makarenko
Meteotsunamis as recorded on the coast of Kuril Islands
- XY523 EGU2012-2536
T. Pinegina and A. Kozhurin
Earthquakes and Tsunami along the western margin of the Bering Sea, Kamchatka, Russia
- XY524 EGU2012-3906
J. DuBois
Hazard assessment for a submarine landslide generated local-source tsunami from Kaikoura Canyon
- XY525 EGU2012-4951
H. Aykurt Vardar, Y. Altinok, N.G. Kiyak, and T. Ozturk
Research on tsunami traces on Marmara Island, Sea of Marmara, Turkey
- XY526 EGU2012-5983
M. Franz, Y. Podladchikov, M-H. Derron, M. Jaboyedoff, C. Michoud, F.J. Baillifard, L. Genton, and S. Omlin
Tsunami in Alps reservoirs: the case of Mauvoisin dam (Valais, Switzerland)
- XY527 EGU2012-5208
R. Jagodziński, **B. Sternal**, and W. Szczuciński
Application of heavy minerals analysis in studies of tsunami deposits
- XY528 EGU2012-7301
E. Quentel, A. Loevenbruck, and H. Hébert
Tsunami hazard assessment along the French Mediterranean coast : detailed modeling of tsunami impacts for the ALDES project
- XY529 EGU2012-12563
J. A. Álvarez-Gómez, O.Q. Gutiérrez-Gutiérrez, I. Aniel-Quiroga, and M. González
Tsunamigenic potential of subduction outer-rise normal faults in Central America
- XY530 EGU2012-7346
N. Meral Ozel, **O. Necmioglu**, A.C. Yalciner, D. Kalafat, M. Yilmazer, M. Comoglu, U. Sanli, C. Gurbuz, and M. Erdik
Tsunami Warning Center in Turkey : Status Update 2012
- XY531 EGU2012-9290
L. Bressan, S. Tinti, F. Zaniboni, and G. Pagnoni
Calibration of a Tsunami Early Detection Algorithm (TEDA) for the sites of Catania and Tremestieri in Sicily, Italy.
- XY532 EGU2012-9787
S. Harig, A. Androssov, A. Fuchs, A. Immerz, N. Rakowsky, J. Behrens, W. Hiller, and S. Danilov
Tsunami Wave Propagation: Recent applications of a Finite Element Tsunami Model

- XY533 EGU2012-9901
R. Omira, M. A. Baptista, C. Catita, F. Carrilho, and L. Matias
Tsunami Risk in the NE Atlantic: Pilot Study for Algarve Portugal and Applications for future TWS
- XY534 EGU2012-10325
S. Tinti, G. Pagnoni, A. Armigliato, and R. Tonini
Tsunami inundation scenarios and tsunami vulnerability assessment for the town of Alexandria, Egypt
- XY535 EGU2012-10166
F. Schindel , R. Bossu, N. Alabruno, P. Arnoul, P. Duperray, A. Gailler, J. Guilbert, H. H bert, B. Hernandez, A. Loevenbruck, and P. Roudil
The French Tsunami warning center for the Mediterranean and North-East Atlantic (CENTre d'ALerte aux Tsunamis, CENALT)
- XY536 EGU2012-10957
S. Tinti, G. Pagnoni, A. Armigliato, R. Tonini, and B. Ranguelov
Assessing tsunami hazard for the town of Varna (Bulgaria) by means of a worst-case scenario approach
- XY537 EGU2012-11480
B.D. Hamlington, R.R. Leben, O.A. Godin, E. Gica, V.V. Titov, and B.J. Haines
Near Real-Time Tsunami Detection Using Satellite Altimetry
- XY538 EGU2012-10808
S. Ceramicola, S. Tinti, D. Praeg, F. Zaniboni, and P. Planinsek
Potential tsunamigenic hazard associated to submarine mass movement along the Ionian continental margin (Mediterranean Sea).
- XY539 EGU2012-84
B.H. Choi, B.I. Min, K.O. Kim, and **E. Pelinovsky**
Estimation of runup heights of the 2011 Tokohu tsunami based on 3D numerical simulations and 1D analytical runup theory
- XY540 EGU2012-7694
V. Kaystrenko
1-D linear inverse problem for initial sea level disturbance in the tsunami source.
- XY541 EGU2012-4053
T. Voronina
Numerical simulation of an initial tsunami waveform based on sea-level data inversion: case study for the Shicotan event of the 4th October 1994
- XY542 EGU2012-8569
F. Zaniboni, S. Tinti, G. Pagnoni, S. Ceramicola, P. Planinsek, and I. Marson
Evaluation of tsunami hazard associated to the Assi submarine landslide along the Ionian Calabrian margin, Italy
- XY543 EGU2012-854
M. Engel, S.M. May, and H. Br ckner
Revisiting boulder fields on Bonaire (Leeward Antilles)
- XY544 EGU2012-1433
I.A. Garagash, **L.I. Lobkovsky**, and R.Kh. Mazova
New approach to analysis of strongest earthquakes with upper-value magnitude in subduction zones and induced by them catastrophic tsunamis on examples of catastrophic events in 21 century
- XY545 EGU2012-5057
M. Raeesi and K. Attakan
The March 11, 2011 (Mw=9.1) Japan interplate earthquake: What happened and what is next?
- XY546 EGU2012-4667
I.V. Marinin, **S.I. Kabanikhin**, O.I. Krivorotko, A. Karas, and D.G. Khidasheli
Rapid processing of data based on high-performance algorithms for solving inverse problems and 3D-simulation of the tsunami and earthquakes
- XY547 EGU2012-5828
G. Pagnoni, S. Tinti, and A. Armigliato
Computed inundation heights of the 2011 Tohoku tsunami compared to measured run-up data: hints for tsunami source inversion
- XY548 EGU2012-9419
J. Behrens
Efficient triangular adaptive meshes for tsunami simulations
- XY549 EGU2012-11809
C.W. Ebeling, **E.A. Okal**, N. Kalligeris, and C.E. Synolakis
Modern seismological reassessment and tsunami simulation of historical Hellenic Arc earthquakes

NH5.7/ESSI1.7 – Architecture of Future Tsunami Warning Systems (co-organized) – Orals

Convener: J. W chter | Co-Conveners: Z A Sabeur, K. Watson, S. Tinti

Room: 1

Chairperson: Joachim W chter

- 08:30–08:45 EGU2012-8040
J. Moßgraber, S. Middleton, M. Hammitzsch, and S. Poslad
 A Distributed Architecture for Tsunami Early Warning and Collaborative Decision-support in Crises
- 08:45–09:00 EGU2012-13958
R. Tao, S. Poslad, J. Moßgraber, S. Middleton, and M. Hammitzsch
 Scalable and Resilient Middleware to Handle Information Exchange during Environment Crisis
- 09:00–09:15 EGU2012-2182
A. I. Chung, E. S. Cochran, C. Christensen, A. E. Kaiser, and J. F. Lawrence
 Results from the Quake-Catcher Network Rapid Aftershock Mobilization Project (QCN-RAMP) in Christchurch, New Zealand and Advances in QCN Rapid Earthquake Detections
- 09:15–09:30 EGU2012-8052
 A. Gailler, **H. Hébert**, A. Loevenbruck, and B. Hernandez
 Simulation systems for tsunami wave propagation forecasting within the French tsunami warning center
- 09:30–09:45 EGU2012-13771
E. Jones
 Open Standards for Emergency Mangement
- 09:45–10:00 EGU2012-13634
D. K. Arctur, G. Percivall, and C. Reed
 The Role of Geospatial and Sensor Web Standards for Development of Tsunami Warning Systems

NH5.7/ESS1.7 – Architecture of Future Tsunami Warning Systems (co-organized) – Posters

Convener: J. Wächter | Co-Conveners: Z A Sabeur, K. Watson, S. Tinti

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Joachim Wächter

- XY550 EGU2012-9955
R. Häner and J. Wächter
 The TRIDEC System-of-Systems; Choreography of large-scale concurrent tasks in Natural Crisis Management
- XY551 EGU2012-2827
M. Lendholt, M. Hammitzsch, and M.A. Esbri Palomares
 A communication model for interlinking national tsunami early warning systems
- XY552 EGU2012-4364
P. Löwe, M. Hammitzsch, A. Babeyko, and J. Wächter
 The TRIDEC Virtual Tsunami Atlas - customized value-added simulation data products for Tsunami Early Warning generated on compute clusters
- XY553 EGU2012-4571
A. Babeyko and A. Hoechner
 Accuracy of tsunami source inversion with real-time GPS
- XY554 EGU2012-5517
 S. Tinti, **A. Armigliato**, G. Pagnoni, and F. Zaniboni
 Building strategies for tsunami scenarios databases to be used in a tsunami early warning decision support system: an application to western Iberia
- XY555 EGU2012-7275
M. Hammitzsch, O. Necmioglu, S. Reißland, M. Lendholt, M. Comoglu, N.M. Ozel, and J. Wächter
 TRIDEC Natural Crisis Management Demonstrator for Tsunamis
- XY556 EGU2012-10014
M. A. Esbri Palomares, M. Hammitzsch, and M. Lendholt
 A hazard-independent approach for the standardised multi-channel dissemination of warning messages
- XY557 EGU2012-11967
S. Gensch
 The Sensor Integration Platform TSB - current status and outlook
- XY558 EGU2012-10053
S. Reißland, S. Herrnkind, M. Guenther, A. Babeyko, M. Comoglu, and M. Hammitzsch
 Experiences integrating autonomous components and legacy systems into tsunami early warning systems
- XY559 EGU2012-11330
S. Gensch, M. Günther, and R. Henneberger
 Monitoring and Maintenance of the German Indonesian Tsunami Early Warning System (GITEWS)
- XY560 EGU2012-11323
L. Lindner, S. Gensch, R. Henneberger, M. Lendholt, and M. Hammitzsch
 An Alternative for In-Depth Monitoring of Tsunami Early Warning Systems
- XY561 EGU2012-7735
F. Riedel, F. Chaves, and H. Zeiner
 Flexible Early Warning Systems with Workflows and Decision Tables

- XY562 EGU2012-12265
Z A Sabeur, J Wächter, S E Middleton, Z. Zlatev, R Häner, M Hammitzsch, and P Loewe
 Knowledge base and sensor bus messaging service architecture for critical tsunami warning and decision-support
- XY563 EGU2012-12411
Z A Sabeur, B. Arbab-Zavar, R. Samperio, A Armigliato, R Omira, J Wächter, and S Tinti
 Automated detection of tsunamigenic signatures and reporting using multi-scale offshore in situ measurements for early tsunami warning and critical decision-support
- XY564 EGU2012-12816
A. N. Küppers
 The Good, the Bad and the Ugly: Remarks on data policies, their influence on system architecture, and the resilience of circumbasin countries against tsunami

NH9.1 – Natural Catastrophe Risk Assessment: Integrating Public Private Academic Partnerships into Applications and Decision Making – Orals

Conveners: R. Gunasekera, A. Werner | Co-Conveners: R. Muir-Wood, M. Wüest, A. Allmann

Room: 8

Chairperson: Angelika Werner, Marc Wueest

- 08:30–08:45 EGU2012-4067
M.L.V. Martina, F. Dottori, and E. Todini
 A simple and effective tool for flood scenario simulation and risk analysis
- 08:45–09:00 EGU2012-8616
P. Williams, M. Huddelston, G. Michel, S. Thompson, K. Heynert, C. Pickering, I. Abbott Donnelly, T. Fewtrell, H. Galy, F. Sperna Weiland, H. Winsemius, A. Weerts, S. Nixon, P. Davies, and D. Schiferli
 The Global Flood Model
- 09:00–09:15 EGU2012-9212
EK Raven, C Keef, and K Busby
 Characterising freeze in the UK: applications for the insurance industry
- 09:15–09:30 EGU2012-2118
M Kunz, M Puskeiler, and M Schmidberger
 Climatology of damage-causing hailstorms over Germany
- 09:30–09:45 EGU2012-12264
E. Bellone and R. Muir-Wood
 Using an extended historical record to assess the temporal behavior of high magnitude earthquakes
- 09:45–10:00 EGU2012-3668
J. Gottsmann and the VUELCO Consortium Team
 The VUELCO project consortium: new interdisciplinary research for improved risk mitigation and management during volcanic unrest

COFFEE BREAK

Chairperson: Robert Muir-Wood, Alexander Allmann

- 10:30–10:45 EGU2012-10564
 J. Strachan, **P.-L. Vidale**, H. Galy, and I. Scott
 From Global Climate Modelling to Catastrophe Modelling: a risk assessment supply chain made possible through the Willis Research Network
- 10:45–11:00 EGU2012-8081
S. Surminski, B. Holt Andersen, R. Hohl, and S. Andersen
 Applying Earth Observation Data to agriculture risk management: a public-private collaboration to develop drought maps in North-East China
- 11:00–11:15 EGU2012-1328
F. Wenzel, J. Daniell, B. Khazai, B. Mühr, T Kunz-Plapp, M. Markus, and A. Vervaeck
 Real-time Forensic Disaster Analysis
- 11:15–11:30 EGU2012-9922
L. Grassby, I. Millinship, and K. Breinl
 Overcoming challenges of catastrophe modelling in data poor regions
- 11:30–11:45 EGU2012-12126
A. Kubik, U. Boehm, K. Born, U. Broecker, M. Buechner, O. Burghoff, M. Donat, F.W. Gerstengarbe, F.F. Hattermann, H. Held, M. Kuecken, G.C. Leckebusch, P. Ludwig, T. Nocke, H. Oesterle, T. Pardowitz, J.G. Pinto, B.F. Prahl, U. Ulbrich, and P.C. Werner
 Actuarial assessment of future loss scenarios in the German insurance sector

11:45–12:00 EGU2012-14035

G. Michel, R. Gunasekera, A. Werner, and H. Galy
Making Better Re/Insurance Underwriting and Capital Management Decisions with
Public-Private-Academic Partnerships

NH9.1 – Natural Catastrophe Risk Assessment: Integrating Public Private Academic Partnerships into Applications and Decision Making – Posters

Conveners: R. Gunasekera, A. Werner | Co-Conveners: R. Muir-Wood, M. Wüest, A. Allmann

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Angelika Werner, Marc Wueest, Robert Muir-Wood, Alexander Allmann

XY565 EGU2012-9106

I. Millinship

Strengthening the weak link: Built Environment modelling for loss analysis

XY566 EGU2012-1585

R. Foulser-Piggott, K. Saito, and R. Spence

Modular Exposure Disaggregation Methodologies for Catastrophe Modelling using GIS and Remotely-Sensed Data

XY567 EGU2012-5256

R. Parker, D. Petley, N. Rosser, A. Densmore, R. Gunasekera, and M. Brain

Spatial and temporal variability in rates of landsliding in seismically active mountain ranges

XY568 EGU2012-4685

P. Lopez, A. Llinares, A. Garcia, J.M. Marrero, and R. Ortiz

Psychological aspects in a volcanic crisis: El Hierro Island eruption (October, 2011).

XY569 EGU2012-14034

R. Gunasekera, T. Rosetto, S. Tabuchi, A. Suppasri, T. Futami, I. Scott, and H. Maegawa

A Review of Methodologies on Vulnerability Assessment of Buildings to Tsunami Damage

XY570 EGU2012-11150

T. Fewtrell, J. Neal, J. Smith, P. Bates, A. Miller, M.L. Baeck, and G. Villarini

Flood Inundation Modeling for Urban Watersheds

XY571 EGU2012-9524

M.A. Trigg, P.B. Bates, and K. Michaelides

Hydrodynamic modelling and global datasets: Flow connectivity and SRTM data, a Bangkok case study.

XY572 EGU2012-10779

F. Serinaldi and C.G. Kilsby

Towards large scale stochastic rainfall models for flood risk assessment in trans-national basins

XY573 EGU2012-5441

H. Kreibich and I. Seifert

FLEMOcs - a novel, multi-factorial model for the estimation of flood losses in the commercial sector

XY574 EGU2012-8596

P. Mohan, M.-K. Thomson, and **A. Das**

Modeling Flood Insurance Penetration in the European Non-Life Market: An Overview

XY575 EGU2012-12317

C. Mitas and S. Cusack

A 100 year record of windstorms in the Netherlands

XY576 EGU2012-8105

O. Martinez-Alvarado, **S. L. Gray**, J. L. Catto, and P. A. Clark

Sting jets in intense winter North-Atlantic windstorms

XY577 EGU2012-10158

K. Born, R. Drinka, A. Georgiadis, R. Haas, P. Ludwig, M. K. Karremann, A. Podlaha, S. Ulbrich, and J. G. Pinto

Development of a European Windstorm Event Set using a Combined Dynamical and Statistical Downscaling Approach

XY578 EGU2012-1484

C. Franzke

Atmospheric Extreme Events in the North Atlantic Region

XY579 EGU2012-14038

A. Werner, M. Sanderson, W. Hand, A. Blyth, P. Groenemeijer, M. Kunz, M. Puskeiler, G. Saville, and G. Michel

Global Hail Model

XY580 EGU2012-1801

E. Hamilton, R. Eade, R. J. Graham, A. A. Scaife, D. M. Smith, A. Maidens, and C. MacLachlan

Forecasting the number of extreme daily temperature events on seasonal timescales

- XY581 EGU2012-14196
T. Robinson, I. Charvet, and R. Gunasekera
 Using HAZUS-MH for modelling past coastal flooding events in Japan

NH9.4 – Early warning systems for natural hazards and risks – Posters

Convener: T. Glade | Co-Conveners: G. Papadopoulos

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Thomas Glade

- XY582 EGU2012-4253
D.A. Stanica
 Electromagnetic ground-based measuring system used for the near real-time hazard level assessment of the earthquake-induced landslides
- XY583 EGU2012-5766
T. shimizu, T. uchida, T. yamakoshi, K. yoshino, H. kisa, T. ishizuka, and A. kaji
 Quick Analysis Method for Estimating Debris Flow Prone Area Caused by Overflow from Landslide dam
- XY584 EGU2012-6875
A. Kaji, H. Mizuno, T. Yamakoshi, and T. Ishizuka
 Establishment and Application of Early Warning System for Flood and Debris Flow Triggered by Rapid Erosion of Natural Barrier
- XY585 EGU2012-7595
A. Marmureanu, C. Ionescu, and L. Manea
 Towards a nationwide Early Warning System in Romania
- XY586 EGU2012-9074
O. Bokhove, E. Gagarina, W. Zweers, and A. Thornton
 On the relevance of the Bore-Soliton-Splash to extreme waves, tsunami run-up and wave energy?
- XY587 EGU2012-10119
 C. Centoducati, L. D'Angelo, M. Deda, L. Ferraris, E. Fiori, M. Gjonaj, S. Kelmendi, **M. Massabò**, A. Olli, and F. Siccardi
 Program for Prediction, Prevention and Mitigation of Forest Fire and Flood risk in Albania
- XY588 EGU2012-11765
V.J. Cortes, S. Frigerio, L. Schenato, S. Sterlacchini, and A. Pasuto
 Decision Support Systems and Early Warning Solutions: a review in European context.
- XY589 EGU2012-13874
F. Ponziani, M. Stelluti, R. Zauri, N. Berni, L. Brocca, T. Moramarco, D. Salciarini, and C. Tamagnini
 A near real time scenario at regional scale for the hydrogeological risk
- XY590 EGU2012-1508
M.I. Vousedoukas, L.P. Almeida, A. Pacheco, and O. Ferreira
 An early warning system for marine storm hazard mitigation
- XY591 EGU2012-5674
 G. Zimatore, C. Rafanelli, and **M. Poscolieri**
 Earlier appraisal of seismic and volcanic events by means of recurrence quantification analysis of AE time-series: preliminary results
- XY592 EGU2012-5854
 A. Armigliato, **S. Tinti**, G. Pagnoni, and F. Zaniboni
 Tsunami early warning in the central Mediterranean: effect of the heterogeneity of the seismic source on the timely detectability of a tsunami
- XY593 EGU2012-6882
T. Yamakoshi, T. Ishizuka, A. Kaji, Y. Ito, S. Osaka, and A. Nakagome
 Quick Monitoring Tool for Landslide Dam Outburst Debris Flow and Its Application to the Actual Disaster
- XY594 EGU2012-8491
G. A. Papadopoulos
 NEARTOWARN: A new EU-DG ECHO-supported project for the near-field tsunami early warning
- XY595 EGU2012-13258
S. De Munck, Y. Gauthier, M. Bernier, and S. Légaré
 River channel's predisposition to ice jams: a geospatial model

NH9.8/EOS9 – Geoethics and natural hazards: communication, education and the science-policy-practice interface (co-organized) – Orals

Convener: S. Peppoloni | Co-Conveners: J. Wasowski, P. Reitan, G. Devoli, SW Kieffer, E. Lindquist, S. Sargeant

Room: 8

Chairperson: n.n.

- 13:30–13:45 EGU2012-2524
SW Kieffer
Planet Earth: Its Past, Our Present, A Future (?)
- 13:45–14:00 EGU2012-7841
J. C. Gill
Geology for Global Development: Training young geoscientists to communicate and do effective disaster risk reduction in the developing world
- 14:00–14:15 EGU2012-9375
A. Taurisano, E. Lyche, V. Thakur, T. Wiig, K. Øvrelid, and G. Devoli
Ethical questions in landslide management and risk reduction in Norway
- 14:15–14:30 EGU2012-8535
J. McCaughey, A. M. Lubis, Z. Huang, Y. Yao, E. M. Hill, S. Eriksson, and K. Sieh
Earthquake and tsunami hazard in West Sumatra: integrating science, outreach, and local stakeholder needs
- 14:30–14:45 EGU2012-11067
S. Stein, R. Geller, and M. Liu
What to do given that earthquake hazard maps often fail
- 14:45–15:00 EGU2012-11639
M.-A. del Marmol, M. Bi Suh Atanga, S. Njome, G. Mafany Teke, P. Jacobs, and C.E. Suh
Communication of geohazard risks by focus group discussions in the Mount Cameroon area, Cameroon.

NH9.8/EOS9 – Geoethics and natural hazards: communication, education and the science-policy-practice interface (co-organized) – Posters

Convener: S. Peppoloni | Co-Conveners: J. Wasowski, P. Reitan, G. Devoli, SW Kieffer, E. Lindquist, S. Sargeant

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY596 EGU2012-1185
C. Dawber and **S Latchman**
Current Methods of Natural Hazards Communication used within Catastrophe Modelling
- XY597 EGU2012-101
E.J.I. Apatu, C. E. Gregg, M. K. Lindell, J. Sorensen, J. Hillhouse, and B. Sorensen
The September 29, 2009 Earthquake and Tsunami in American Samoa: A Case Study of Household Evacuation Behavior and the Protective Action Decision Model
- XY598 EGU2012-1271
T. Ozcep and F. Ozcep
Fear based Education or Curiosity based Education as an Example of Earthquake and Natural Disaster Education: Results of Statistical Study in Primary Schools in Istanbul-Turkey
- XY599 EGU2012-6335
Dr. Netti
Natural Hazards, Poverty Traps versus Economic Growth
- XY600 EGU2012-14042
S. Parkash
Ethics in disaster management
- XY601 EGU2012-11977
M. Mucciarelli and R Camassi
Communication during an evolving seismic sequence
- XY602 EGU2012-8477
H. Sangster, D.K Chester, and A.M Duncan
Human reponses to historical eruptions of Etna (Sicily) from 1600 to present and their implications for present-day disaster planning
- XY603 EGU2012-9019
G. Devoli
Scientific practices and social behaviors in managing landslide risks: comparing experiences between developing and developed countries
- XY604 EGU2012-9515
R. Nave, G. D'Addezio, and A. Carosi
A visitor study approach to INGV exhibition at Genova Science Festival 2011
- XY605 EGU2012-14386
P Hradecky and I Baron
Complex geohazard susceptibility zoning for effective landuse planning and catastroph prevention in developing countries

- XY606 EGU2012-9762
A. Amato, L. Arcoraci, E. Casarotti, **G. Cultrera**, R. Di Stefano, L. Margheriti, C. Nostro, G. Selvaggi, and May-11 Team
Earthquake prediction rumors can help in building earthquake awareness: the case of May the 11th 2011 in Rome (Italy)
- XY607 EGU2012-10606
S. Sargeant
Reflections from the interface between seismological research and earthquake risk reduction
- XY608 EGU2012-14385
W. Strauch and G. Devoli
Performance of Early Warning Systems on Landslides in Central America
- XY609 EGU2012-14078
S Peppoloni, R Matteucci, S Piacente, and J Wasowski
Geoethics: the responsibility of geoscientists in making society more aware of natural hazards
- XY610 EGU2012-8000
T. Lanza, M. Crescimbene, and F. La Longa
From Colfiorito to L'Aquila Earthquake: learning from the past to communicating the risk of the present
- XY611 EGU2012-6426
V. Chistyakov
Gas hydrates - new source of energy and new Geotechnical hazards
- XY612 EGU2012-9079
S. Oki and K. Koketsu
Risk communication on earthquake prediction studies: Possible pitfalls of science communication
- XY613 EGU2012-2622
M. Crescimbene, F. La Longa, and T. Lanza
Natural disasters between memory and oblivion

NH9.12 – Modelling of dangerous phenomena, and innovative techniques for hazard evaluation and risk mitigation –

Posters

Convener: G. G.R. IOVINE | Co-Conveners: Dr. Huebl, M. Pastor, C. Aubrecht

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: C. Aubrecht, J. Huebl, G. Iovine and M. Pastor

- XY614 EGU2012-57
A. G. Rodnikov, N. A. Sergeyeva, and L. P. Zabarinskaya
Geodynamic models of the deep structure of the natural disaster regions of the Earth
- XY615 EGU2012-305
D. Ma
THREE-DIMENSIONAL CHARACTERISTICS of THE LOESS'S MICROSTRUCTURE and COMPARISON BEFORE and AFTER COLLAPSE
- XY616 EGU2012-2764
D. Torri, L. Borselli, P. Iaquina, **G. Iovine**, J. Poesen, and O. Terranova
Generalizing a complex model for gully threshold identification in the Mediterranean environment
- XY617 EGU2012-2776
G. G.R. Iovine, S.L. Gariano, R. Greco, P. Iaquina, and O. Terranova
GA-SAKE: FORECASTING RAINFALL-INDUCED LANDSLIDES THROUGH A HYDROLOGICAL MODEL. AN EXAMPLE OF APPLICATION TO THE UNCINO LANDSLIDE (CALABRIA)
- XY618 EGU2012-4878
B. Leidl, **K. Baumann-Stanzer**, and S. Trini Castelli
COST Action ES1006 - Evaluation, improvement and guidance for the use of local-scale emergency prediction and response tools for airborne hazards in built environments
- XY619 EGU2012-6824
F.d.J. Escalona-Alcázar, B. Escobedo-Arellano, B. Castillo-Félix, C. Carrillo-Castillo, P. García-Sandoval, L.L. Gurrola-Menchaca, E.P. Núñez-Peña, A. Esparza-Martínez, J. Bluhm-Gutiérrez, and C.J. Guijarro-Rodríguez
Integrated geomorphologic and GIS analysis for the assessment of erosion zones and its relationship with hazardous zones in the Zacatecas and Guadalupe quadrangles, Mexico
- XY620 EGU2012-7815
M. W. Wuttke, M. Halisch, D. C. Tanner, Z. Y. Cai, Q. Zeng, and C. Wang
Underground Coal-Fires in Xinjiang, China: A Continued Effort in Applying Geophysics to Solve a Local Problem and to Mitigate a Global Hazard

- XY621 EGU2012-9881
F. Mancini, F. Stecchi, and G. Gabbianelli
 Correlation between elevation change and groundwater level following the termination of salt exploitation in the city of Tuzla (BiH)
- XY622 EGU2012-10556
M. Francioni, R. Salvini, and S. Riccucci
 Geological hazard zonation in a marble exploitation area (Apuan Alps, Italy)
- XY623 EGU2012-11003
 M. Kechaidou, **G. Ch. Sirakoulis**, and E. M. Scordilis
 Monitoring of seismic time-series with advanced parallel computational tools and complex networks
- XY624 EGU2012-11205
 V. Lupiano, F. Lucà, G. Robustelli, R. Rongo, **D. D'Ambrosio**, W. Spataro, and M.V. Avolio
 High Detailed Debris Flows Hazard Maps by a Cellular Automata Approach
- XY625 EGU2012-11459
S. Schmassmann, M. Filliponi, P.-Y. Jeannin, A. Parriaux, A. Malard, and J. Vouillamoz
 KarstALEA - a scientifically based method to predict karst-related hazards in underground constructions
- XY626 EGU2012-13918
S. Tessitore, G. Castiello, M. Fedi, G. Florio, V. Fuschini, M. Ramondini, and D. Calcaterra
 Integrated monitoring system for ground deformation hazard assessment in Telese Terme (Benevento province, Italy)
- XY627 EGU2012-13960
E.V. Perekhodtseva
 The probability forecast evaluation of hazard and storm wind over the territories of Russia and Europe
- XY628 EGU2012-13989
F. Pacchiani and M. Wyss
 Estimated damage and loss scenarios for future major earthquakes in Luzon, Philippines
- XY629 EGU2012-13990
L. Yilmaz
 Meander applications at landslides in alluvium valleys

SC3/NH10.1 – Short Course: How to apply and interpret the Fast Fourier Transform (co-organized) – Orals

Convener: R. Crockett

Room: 42

Chairperson: n.n.

15:30–17:00

Friday, 27 April

CR8.10 – Mountain snow cover and avalanche formation (co-listed) – Orals

Convener: J. Schweizer | Co-Conveners: A. van Herwijnen, D. McClung, K. Kronholm

Room: 9

Chairperson: Alec van Herwijnen

- 08:30–08:45 EGU2012-2238
D. Vikhamar-Schuler and K. Müller
Snow modeling using SURFEX with the CROCUS snow scheme for Norway
- 08:45–09:00 EGU2012-2247
J. Gaume, G. Chambon, N. Eckert, and M. Naaim
Relative influence of mechanical and meteorological factors on avalanche release depth distributions. Application to French Alps.
- 09:00–09:15 EGU2012-11793
C. Mitterer and J. Schweizer
Analysis of the atmosphere-snow energy balance during wet-snow instabilities
- 09:15–09:30 EGU2012-7583
M. Teich, C. Marty, C. Gollut, A. Grêt-Regamey, and P. Bebi
Snow and weather conditions fostering avalanche releases in forests: Rare situations with decreasing trends during the last 41 years
- 09:30–09:45 EGU2012-11317
J. Veitinger, B. Sovilla, and R. Purves
Influence of snow cover on location and extension of avalanche release areas
- 09:45–10:00 EGU2012-8455
K. Nishimura, Y. Ito, C. Yokoyama, and F. Naaim
Snow particle speeds in the blowing snow

CR8.10 – Mountain snow cover and avalanche formation (co-listed) – Posters

Convener: J. Schweizer | Co-Conveners: A. van Herwijnen, D. McClung, K. Kronholm

Hall Z | Display Time 08:00–17:00

Author in Attendance: 13:30–15:00

Chairperson: Jürg Schweizer

- Z117 EGU2012-12215
N. Helbig and **A. van Herwijnen**
Investigating surface hoar spatial distributions in complex topography
- Z118 EGU2012-6231
A. van Herwijnen
SMP cone penetration in homogeneous snow layers
- Z119 EGU2012-4031
P. Hagenmuller, T. Theile, and M. Schneebeli
Microstructure-based simulations of the tensile strength of snow
- Z120 EGU2012-10746
D. Gauthier and D.J. Hutchinson
Limits on the critical length of damage in weak snowpack layers from en-echelon slab fracture spacing observed during avalanche release
- Z121 EGU2012-2251
J. Gaume, G. Chambon, N. Eckert, and M. Naaim
Influence of weak layer heterogeneity on slab avalanche release. Application to the evaluation of avalanche release depths.
- Z122 EGU2012-14138
B. Reuter and J. Schweizer
Variations of snow depth and snowpack stability at the basin scale
- Z123 EGU2012-11960
F. Monti and J. Schweizer
Deriving snow hardness from density and its application to the 1-D snow cover model SNOWPACK
- Z124 EGU2012-12471
M. Valt, F. Monti, P. Cianfarra, and D. Moro
Physical properties of snow cover in Alps: insight from the Davos area (Switzerland) and Veneto-Friuli Venezia Giulia regions (Italy)

- Z125 EGU2012-12297
E.H. Bair
A field study on failure of storm snow slab avalanches
- Z126 EGU2012-1976
K. Müller, T. Humstad, R. V. Engeset, and J. Andersen
Gridded snow maps supporting avalanche forecasting in Norway
- Z127 EGU2012-10621
A. Singh, D. Chand, S. Kumar, and A. Ganju
On the Snowpack Variability in Maritime Climate
- Z128 EGU2012-11083
E. Marchetti, **G. Ulivieri**, M. Ripepe, I. Chiambretti, and V. Segor
Infrasonic monitoring of snow avalanches in the Alps
- Z129 EGU2012-12663
P. Perona, E. Daly, and A. Porporato
Prediction reliability and return times of natural snow avalanche occurrence

ERE1.12 – Sustainability transitions of the socio-ecologic system (co-listed) – Orals

Convener: D. E. Reusser | Co-Conveners: J. Kropp, D. Rybski, A. Cerdà, A. Ferreira

Room: 19

Chairperson: Cerda, Reusser

- 13:30–14:00 EGU2012-14156
J. Rotmans
Sustainability Transitions as new perspective
- 14:00–14:15 EGU2012-10614
D. Neubersch, H. Held, A. Lorenz, and E. Kriegler
Conceptual Challenges in Assessing Climate Targets under Uncertainty and Learning
- 14:15–14:30 EGU2012-9484
M. Fischer Kowalski, W. Haas, D. Wiedenhofer, and F. Krausmann
Socio-metabolic transitions during the 20th century and their impacts on the scale of human resource use
- 14:30–14:45 EGU2012-4839
J.P. Kropp, L. Costa, and D. Rybski
Reconciliation of climate protection & development: the role of OECD & developing countries
- 14:45–15:00 EGU2012-13679
M. Carreiras, A.J.D. Ferreira, T.C.J. Esteves, F. Delgado, F. Andrade, J. Franco, and C.D. Pereira
How can LCA approaches contribute to improve geo-cycles management

ERE1.12 – Sustainability transitions of the socio-ecologic system (co-listed) – Posters

Convener: D. E. Reusser | Co-Conveners: J. Kropp, D. Rybski, A. Cerdà, A. Ferreira

Hall XL | Display Time 08:00–17:00

Author in Attendance: 15:30–17:00

Chairperson: Cerda, Ferreira, Kropp, Rybski, Reusser

- XL23 EGU2012-14302
A.J.D. Ferreira
Geosciences for sustainability
- XL24 EGU2012-3410
A.-M. Burlea and I. Muntele
Infant mortality evolution in Romania: perspectives from a country in transition
- XL25 EGU2012-4109
D. E. Reusser, F.A.P. Siabatto, A. Garcia Cantu Ros, C. Pape, T. Lissner, and J.P. Kropp
Modelling interactions between mitigation, adaptation and sustainable development
- XL26 EGU2012-4988
D. Rybski, L. Costa, and J.P. Kropp
Projecting Human Development and CO2 emissions employing correlations
- XL27 EGU2012-11536
S.J. Singh and H. Haberl
Long term socio-ecological research across temporal and spatial scales
- XL28 EGU2012-3851
M.D. Taylor, A.D. Mackay, E. Dominati, and R.B. Hill
Towards Integrating Soil Quality Monitoring Targets as Measures of Soil Natural Capital Stocks with the Provision of Ecosystem Services

- XL29 EGU2012-13693
A.N.S. Muacahila, A.J.D. Ferreira, and C.O.A. Coelho
Geosciences knowledge to improve the livelihood of the Arcos Region in the Namibe Desert , South of Angola
- XL30 EGU2012-7335
C. Schleupner, U.A. Schneider, P. Havlik, and T. Stacke
Development of a Global Wetland Sustainability Index for comprehensive land use planning
- XL31 EGU2012-13499
T.C.J. Esteves, P. Cabral, A.J.D. Ferreira, and J.C. Teixeira
Multi-criteria decision analysis for bioenergy in the Centre Region of Portugal
- XL32 EGU2012-13520
I. Jacquemin, C. M. Fontaine, N. Dendoncker, L. François, R. De Vreese, A. Marek, D. Mortelmans, A. Van Herzele, and G. Devillet
Dynamic modelling of future land use change under urbanization and climate change pressures: application to a case study in central Belgium
- XL33 EGU2012-13617
J. Gregg and A. hvid
Future Diet Scenarios and Their Effect on Regional and Global Biofuel Potential
- XL34 EGU2012-14049
P. Pradhan, D.E. Reusser, and J.P. Kropp
Food transitions in last 50 years and related environmental implications

GM2.1 – High definition topography - data acquisition, modelling, interpretation (co-listed) – Orals

Convener: D. Rieke-Zapp | Co-Conveners: A. Reiterer, J. Chandler, D. Vericat, N. Tate, D. M. Powell, J. Brasington, I. Marzloff

Room: 22

Chairperson: J. Brasington

- 08:30–08:45 EGU2012-10924
S. Van-Wier and P. Bernatchez
Use of a mobile terrestrial laser system to quantify the impact of rigid coastal protective structures on sandy beaches, Quebec, Canada
- 08:45–09:00 EGU2012-2730
D. M. Powell and D. Ackerley
Characterising the roughness properties of alluvial river banks using terrestrial laser scanning.
- 09:00–09:15 EGU2012-8878
J.M. Nield, G.F.S. Wiggs, J. Leyland, S.E. Darby, J. King, F.D. Eckardt, R.C. Chiverrell, L.H. Vircavs, and B. Jacobs
Quantifying small-scale temporal surface change on glaciers and salt pans using terrestrial laser scanning: implications for modelling ablation and dust emission
- 09:15–09:30 EGU2012-11944
C. Fey, C. Zangerl, F. Haas, M. Rutzinger, R. Sailer, and M. Bremer
Rock slide deformation measurements with Terrestrial Laser Scanning in inaccessible high mountain areas
- 09:30–09:45 EGU2012-12284
H. Croft
Soil surface microtopography from close-range laser data and hyperspectral directional reflectance factors
- 09:45–10:00 EGU2012-13139
S. Filin, R. Arav, A. Mushkin, and O. Katz
Monitoring coastal-cliff erosion processes using a novel change detection methodology for high-resolution terrestrial laser scanner data

COFFEE BREAK

Chairperson: D. Rieke-Zapp

- 10:30–10:45 EGU2012-4368
N. Brodu and **D. Lague**
3D point cloud classification of complex natural scenes using a multi-scale dimensionality criterion: applications in geomorphology

- 10:45–11:00 EGU2012-10317
C. Castagnetti, E. Bertacchini, A. Capra, and A. Corsini
 Critical aspects of integrated monitoring systems for landslides risk management: strategies for a reliable approach
- 11:00–11:15 EGU2012-3775
J. Müller, I. Gärtner-Roer, G. Menz, C. Ginzler, and P. Thee
 How accurate can we be? - An evaluation of airborne digital elevation models in a high mountain environment
- 11:15–11:30 EGU2012-911
S. d'Oleire-Oltmanns and I. Marzloff
 UAV derived data for the monitoring of gully erosion in the Souss Basin, Morocco
- 11:30–11:45 EGU2012-12606
P. Allemand, C. Delacourt, A. Deschamps, A. Quiquerez, P. Grandjean, J. Ammann, G. Ori, F. Cannarsa, R. Sabbadini, I. Dell'Archiprete, and D. Gasperini
 Drelia : an photogrammetric UAV for geomorphology
- 11:45–12:00 EGU2012-4550
M. R. James and S. Robson
 The accuracy of photo-based structure-from-motion DEMs

GM2.2 – Digital Landscapes: Quantitative Interrogation and Use to Examine Geomorphic Processes (co-listed) – Orals

Convener: J. K. Hillier | Co-Conveners: P. Tarolli, P. Passalacqua, D.C. Mason, S. Conway

Room: 22

Chairperson: Paolo Tarolli

- 13:30–13:45 EGU2012-13881
A. B. Watts and the SONNE 215 Shipboard Scientific Party
 Repeat swath bathymetry surveys and the rates of growth and collapse of active submarine volcanoes
- 13:45–14:00 EGU2012-6079
Q. Li and S. Dehler
 Identify Foot of Continental Slope by singular spectrum and fractal singularity analysis
- 14:00–14:15 EGU2012-10599
M. D. Hurst, S. M. Mudd, and M. Attal
 Hysteresis in transient landscape topography recorded by hillslopes.
- 14:15–14:30 EGU2012-7207
G. Bertoldi, M. Reginato, and V. D'Agostino
 Merging field survey and LiDAR technology for the analysis of debris-flow erosion
- 14:30–14:45 EGU2012-9898
R. Bell and H. Petschko
 Landslide persistence and human impact in Lower Austria assessed by lidar data and aerial photography
- 14:45–15:00 EGU2012-10318
R. Rivola, E. Bertacchini, C. Castagnetti, A. Capra, A. Corsini, F. Ronchetti, and F. Bonacini
 GB-InSAR 3D maps for deformation monitoring: the importance of the digital surface models in data georeferencing and interpretation
- Chairperson: John Hillier
- 15:30–15:45 EGU2012-6988
F. Shahzad and T. A. Ehlers
 Quantification of glacial and ground surface velocities from repeat terrestrial LiDAR scans
- 15:45–16:00 EGU2012-11024
M.J. Westoby, J. Brasington, N.F. Glasser, M.J. Hambrey, and J.M. Reynolds
 Close-range photogrammetric reconstruction of moraine dam failures
- 16:00–16:15 EGU2012-13302
C. Eisank, L. Dr?gu?, and T. Blaschke
 Object-based mapping of drumlins from DTMs
- 16:15–16:30 EGU2012-7816
J.R. Ford, B. Napier, P.R. Wilby, A.H. Cooper, A.J.M. Barron, and L.B. Bateson
 The central role of digital landscapes in virtual field reconnaissance for geological surveying
- 16:30–16:45 EGU2012-9258
S. J. Conway, M. R. Balme, and P. M. Grindrod
 Using Topographic Derivatives of High Resolution Data on Earth and Mars to Determine Active Processes on Mars.
- 16:45–17:00 EGU2012-11180
S. Ferrari, M. Massironi, R. Pozzobon, A. Castelluccio, G. Di Achille, and G. Cremonese
 DTM analysis and displacement estimates of a major mercurian lobate scarp.

GMPV4.4 – Recent explosive eruptions: Conduit processes, ash dispersal and effects on aviation (co-listed) – Posters

Convener: M.T. Gudmundsson | Co-Conveners: K. Vogfjord, F. Prata, T. Thordarson, C. Witham

Hall XL | Display Time 08:00–17:00

Author in Attendance: 10:30–12:00

Chairperson: n.n.

- XL229 EGU2012-8497
T. Hoshide, A. Toramaru, T. Miyamoto, Y. Iriyama, K. Ikehata, and T. Matsushima
Magma mixing and mingling processes inferred from the ejecta in the Shinmoedake 2011 eruption: Its implications for the transient behavior of eruption styles
- XL230 EGU2012-13575
B. Weinzierl, D. Sauer, A. Minikin, O. Reitebuch, F. Dahlkötter, B. Mayer, C. Emde, I. Tegen, J. Gasteiger, A. Petzold, A. Veira, U. Kueppers, and U. Schumann
On the visibility of airborne volcanic ash and other aerosols from the pilot's perspective in flight
- XL231 EGU2012-10895
F. Marchese, A. Falconieri, N. Pergola, and V. Tramutoli
Identification and tracking of ash clouds from recent explosive eruptions by using multispectral satellite infrared data
- XL232 EGU2012-8464
A. Piscini, S. Corradini, M. Chini, L. Merucci, S. Stramondo, M. Picchiani, and F. Del Frate
Volcanic monitoring from space using neural networks approach. Simultaneous ash and sulfur dioxide retrievals using multispectral measurements
- XL233 EGU2012-8595
C. I. Schipper, H. Tuffen, and J. M. Castro
Shallow vent architecture of Puyehue Cordón-Caulle, as revealed by direct observation of explosive activity
- XL234 EGU2012-11451
H. Tuffen, J.M. Castro, C.I. Schipper, and M.R. James
Observations of obsidian lava flow emplacement at Puyehue-Cordón Caulle, Chile
- XL235 EGU2012-12111
E Aydar, A Höskuldsson, O. Ersoy, and A. Gourgaud
Comparison of Galunggung 1982-83 and Eyjafjalla-2010 Eruptions: definition of eruption dynamics from 3D Ash Surface Morphology
- XL236 EGU2012-3007
E. Bagnato, A. Aiuppa, A. Bertagnini, C. Bonadonna, R. Cioni, M. Pedone, and M. Pistolesi
The 2010 Eyjafjallajökull volcanic summit eruption: evidences from ash-leachates analysis and ground deposition fluxes
- XL237 EGU2012-3034
F. Marengo, B. Johnson, K. Turnbull, J. Haywood, S. Newman, H. Webster, M. Cooke, J. Dorsey, H. Ricketts, and L. Clarisse
Airborne lidar observations of volcanic ash during the eruption of Eyjafjallajökull in Spring 2010
- XL238 EGU2012-14436
M Ripepe, C Bonadonna, A Folch, D Delle Donne, and G Lacanna
Ash-Plume Dynamics, Mass Discharge Rate and Atmosphere Interaction by Infrasonics and Thermal Imagery: the 2010 Eyjafjallajökull Eruption
- XL239 EGU2012-9792
G. N. Petersen, H. Björnsson, Þ. Arason, S. von Löwis, G. S. Sigurðsson, and S. Karlsdóttir
Development of the atmospheric volcanic monitoring system in Iceland
- XL240 EGU2012-9706
H. Björnsson, **G. N. Petersen**, and Þ. Arason
Monitoring of plume height during the Grímsvötn 2011 eruption in Iceland
- XL241 EGU2012-9734
H. Björnsson, **G. N. Petersen**, and Þ. Arason
The eruption that missed Europe - A comparison of the weather situation during the Eyjafjallajökull 2010 and Grímsvötn 2011 eruptions
- XL242 EGU2012-7279
H. P. Gunnlaugsson, Á. Höskuldsson, S. Steinthorsson, N. Óskarsson, M. B. Madsen, P. Nørnberg, and J. Merrison
Mössbauer Spectroscopy of Samples from the 2010 Eyjafjallajökull Summit Eruption
- XL243 EGU2012-7325
J.A. Stevenson, S.C. Louglin, C. Rae, C. Witham, M. Hort, T. Thordarson, and A. MacLeod
Grímsvötn 2011 tephra in the UK: public sampling, air quality and comparison with model predictions.
- XL244 EGU2012-12119
M.T. Gudmundsson, Á. Höskuldsson, G. Larsen, T. Thordarson, B.A. Óladóttir, B. Oddsson, J. Gudnason, T. Högnadóttir, J.A. Stevenson, B.F. Houghton, D. McGarvie, and G.M. Sigurdardóttir
The May 2011 eruption of Grímsvötn

HS2.6 – Hydrological extremes: from droughts to floods (co-listed) – Posters

Convener: A. Viglione | Co-Conveners: L. M. Tallaksen, G. Laaha, A. Castellarin, J. Szolgay

Hall A | Display Time 08:00–17:00

Author in Attendance: 10:30–12:00

Chairperson: Gregor Laaha

- A46 EGU2012-1297
A. Åkesson and A. Wörman
Temporal moment analysis as a means to improve model parameterisation and peakflow predictions
- A47 EGU2012-1548
D. Penot
Hydrograph stochastic generation associated to SCHADEX simulated floods
- A48 EGU2012-2506
D. Veneziano and **S. Yoon**
A Unified Theory of Rainfall Extremes, Rainfall Excesses, and IDF Curves
- A49 EGU2012-2631
V. Aich, S. Fournet, S. Liersch, and F. Hattermann
Floods in the Upper Niger Basin - An increasing threat under global change?
- A50 EGU2012-2953
L. Balatonyi, S. Czigány, and E. Pirkhoffer
Modeling of surface runoff in a low-mountain catchment in SW Hungary
- A51 EGU2012-3534
C.C. Brauer, A.J. Teuling, A. Overeem, Y. van der Velde, P. Hazenberg, P.M.M. Warmerdam, P. Kloosterman, and R. Uijlenhoet
Modelling (flash) floods in a Dutch lowland catchment
- A52 EGU2012-4048
M. Goñi, F.N. Gimena, and J.J. López
R3GeM: New hydrological model for the simulation of rain-runoff events in wet areas.
- A53 EGU2012-4429
M.H.J. van Huijgevoort, P. Hazenberg, H.A.J. van Lanen, and R. Uijlenhoet
A generic identification method for hydrological drought in different climates across the globe
- A54 EGU2012-4537
N. Bezak, M. Brilly, and **M. Sraj**
Flood frequency analyses with annual and partial flood series
- A55 EGU2012-4653
D. Panagoulia and I. Trichakis
On the thresholds in modeling of high flows via artificial neural networks - A bootstrapping analysis
- A56 EGU2012-4696
M. Osuch, R.J. Romanowicz, E. Paquet, and F. Garavaglia
Estimation of flood frequency by SCHADEX method - in Nysa Kłodzka catchment
- A57 EGU2012-6111
F. Garavaglia, E. Paquet, M. Lang, B. Renard, P. Arnaud, Y. Aubert, J-C. Carre, and P. Bernardara
Flood risk assessment in France: comparison of extreme flood estimation methods (EXTRAFLO project, action 7)
- A58 EGU2012-6132
T. Mathevet, F. Garavaglia, E. Paquet, and R. Garçon
Sensitivity of extreme flood quantile estimation to rainfall-runoff modeling
- A59 EGU2012-6393
M. Becker, B. Meyssignac, and F. Seyler
Interannual flood variability in the Amazon Basin over the past 30 year
- A60 EGU2012-8066
Y. Hundecha and B. Merz
Investigating the role of changes in the distributions of hydrometeorological drivers in observed changes in extreme river flow
- A61 EGU2012-8274
J. Erro and J.J. López
Regional Frequency Analysis of Annual Maximum Streamflow in Gipuzkoa (Spain)
- A62 EGU2012-9144
H. Welch, **R. Coupe**, and B. Aulenbach
The effect of the 2011 flood on agricultural chemical and sediment movement in the lower Mississippi River Basin
- A63 EGU2012-9434
J. Bender and J. Jensen
An Enhanced Approach to Generate Synthetic Hydrographs with Low Probability of Occurrence

- A64 EGU2012-9744
S. Niculescu, C. Lardeux, G. Mercier, Y. Lageat, and D. Laurence
Flood Change in Floodplain wetland in the Danube delta from remotely sensed imagery
- A65 EGU2012-10354
S. Vorogushyn, M. Langer, and B. Merz
Impact of river training on flood trends along the Rhine
- A66 EGU2012-10903
L. Strouhal, J. Seibert, and V. David
Importance of temporal and spatial resolution on modelling hydrological extremes in a small catchment
- A67 EGU2012-11505
G. Rossi, V. Chiarello, and E. Caporali
Geostatistical methods for hydrological extremes assessment in ungauged river basins
- A68 EGU2012-11570
L. M. Tallaksen and K. Stahl
Major historical droughts in Europe as simulated by an ensemble of large-scale hydrological models
- A69 EGU2012-11665
C. Bocci, **E. Caporali**, A. Petrucci, and G. Rossi
Investigation on rainfall extremes events through a geostatistical model
- A70 EGU2012-12826
A.L.M.R. Santos, D. Oliveira, M.A. Oliveira, D. Moreira, and J.S.C. Maciel
Manaus city Flow Warning system and extreme events monitoring in the Amazon Basin
- A71 EGU2012-12943
J.L. Salinas, R. Merz, G. Laaha, J. Walther, and U. Buettner
Performance of combined regionalization methods in Saxony, Germany
- A72 EGU2012-12972
V. David
Catchment slope properties as an input to estimations of flood characteristics
- A73 EGU2012-13149
C. Cortis, M. Barrui, N. Montaldo, A. Saba, and J.D. Albertson
On the estimation of the design flood of different dams in Sardinia (Italy)
- A74 EGU2012-13182
I. Thiele-Eich, T. Hopson, E. Gilleland, J.-F. Lamarque, A. Hu, and C. Simmer
Studying the impact of climate change on flooding in large river basins
- A75 EGU2012-13289
M.G. Pereira, S. Carvalho, L. Fernandes, L. Caramelo, and A. Alencão
Hydrological extreme events with Mike Basin
- A76 EGU2012-13468
K Banasik and L. Hejduk
Variation of curve number with storm depth
- A77 EGU2012-13762
S. Madadgar and **H. Moradkhani**
Impacts of Climate Change on Drought Characteristics in the Northwest U.S.
- A78 EGU2012-13934
A. Bartczak, R. Glazik, and S. Tyszkowski
Parameters of streamflow droughts in agricultural basin in central Poland
- A79 EGU2012-8940
D. Koffler and G. Laaha
LFSTAT - An R-Package for Low-Flow Analysis
- A80 EGU2012-13247
J.L. Salinas, A. Viglione, R. Merz, and G. Bloeschl
Climate Change Impact on Floods in Austria. Focus on mechanisms

HS7.2/AS1.20/CL5.16/NH1.3/NP3.6 – Precipitation uncertainty and variability: observations, ensemble simulation and downscaling (co-organized) – Orals

Convener: R. Deidda | Co-Conveners: T. Bellerby, G. Grossi, A. Langousis, X. L. Wang, S. Vogl, P. Laux, H. Kunstmann

Room: 33

Chairperson: Roberto Deidda

- 08:30–08:45 EGU2012-1181
E. Morin
To know what we cannot know: Global mapping of minimal detectable absolute trends in annual precipitation
- 08:45–09:00 EGU2012-7261
H. J. D. Sørup, M. Sunyer, O. B. Christensen, K. Arnbjerg-Nielsen, and P. S. Mikkelsen
Extreme and mean rainfall differences in observational data used as reference in climate studies

- 09:00–09:15 EGU2012-4866
V. Thiemig, R. Rojas, V. Levizzani, and A. De Roo
 Validation of satellite-based precipitation estimates over different African River Basins
- 09:15–09:30 EGU2012-8989
R. Roca, P. Chambon, I. Jobard, and N. Viltard
 Investigating the error budget of tropical rainfall accumulations derived from combined passive microwave and infrared satellite measurements
- 09:30–09:45 EGU2012-9730
T. Bellerby
 Ensemble conditional precipitation simulation from spatiotemporally heterogeneous multiplatform satellite data sets.
- 09:45–10:00 EGU2012-1400
S. Dance and A. Seed
 Characterizing Radar Rain gauge Errors for NWP Assimilation

COFFEE BREAK

Chairperson: Tim Bellerby

- 10:30–10:45 EGU2012-8146
M.A. Sunyer, H.J.D. Sørup, H. Madsen, D. Rosbjerg, and K. Arnbjerg-Nielsen
 Comparing Regional Climate Model output to observational data sets for extreme rainfall
- 10:45–11:00 EGU2012-8780
S.C. van Pelt, J.J. Beersma, T.A. Buishand, B.J.J.M. van den Hurk, and P. Kabat
 Evaluation of the probability distribution of the future change in extreme precipitation
- 11:00–11:15 EGU2012-2728
G.G.S. Pegram and A. Bárdossy
 Multiscale spatial recorelation of RCM precipitation downscaling to correct predictions over large areas and small
- 11:15–11:30 EGU2012-1280
J. Chen, F. Brissette, and D. Chaumont
 Uncertainty of empirical downscaling methods in quantifying the hydrological impact of climate change
- 11:30–11:45 EGU2012-13756
F.S. Mpelasoka, S. Charles, F.H. Chiew, G. Fu, and S. Beecham
 Assessment of CMIP5 GCM daily predictor variables for statistical downscaling
- 11:45–12:00 EGU2012-8150
G. Mascaro, R. Deidda, and M. Hellies
 Robust characterization of rainfall intermittency in Sardinia and identification of physical controls

LUNCH BREAK

Chairperson: Andreas Langousis

- 13:30–13:45 EGU2012-8190
G.T. Diro, A.M. Tompkins, and X. Bi
 Dynamical downscaling of ECMWF ensemble seasonal forecast over East Africa with RegCM3
- 13:45–14:00 EGU2012-8417
A. Champion, K. Hodges, and L. Bengtsson
 Dynamically Downscaling Precipitation from Extra-Tropical Cyclones
- 14:00–14:15 EGU2012-13440
E. Brisson, N.P.M. van Lipzig, and M. Demuzere
 Downscaling precipitation at convection resolving scale using COSMO-CLM.
- 14:15–14:30 EGU2012-4684
A. Sharma, F. Woldemeskel, R. Mehrotra, and B. Sivakumar
 An error model for GCM precipitation and temperature simulations
- 14:30–14:45 EGU2012-13531
F. Wetterhall, H. L. Cloke, Y. He, J. Freer, and F. Pappenberger
 Modelling climate impact on floods under future emission scenarios using an ensemble of climate model projections
- 14:45–15:00 EGU2012-2478
P. Horton, M. Jaboyedoff, and C. Obled
 Calibration of the analogue method for precipitation forecasting by means of genetic algorithms

Chairperson: Stefanie Vogl

- 15:30–15:45 EGU2012-12765
H. W. Rust, M. Vrac, M. Lengaigne, and B. Sultan
 Towards downscaling precipitation for Senegal - An approach based on generalized linear models and weather types
- 15:45–16:00 EGU2012-5863
M. Milan and C. Simmer
 A Sequential Ensemble Prediction System at Convection Permitting Scales
- 16:00–16:15 EGU2012-10486
A. F. Prein, A. Gobiet, M. Suklitsch, H. Truhetz, N. K. Awan, K. Keuler, and G. Georgievski
 Added Value of Convection Resolving Climate Simulations
- 16:15–16:30 EGU2012-2843
D. Cane, S. Barbarino, L. Renier, and C. Ronchi
 Regional Climate Models Downscaling in the Alpine Area with Multimodel SuperEnsemble
- 16:30–16:45 EGU2012-9829
 S. Vogl, P. Laux, **W. Qiu**, G. Mao, and H. Kunstmann
 Copula-based assimilation of radar and gauge information to derive bias corrected precipitation fields
- 16:45–17:00 EGU2012-10864
N. Addor, N. Salzmänn, T. Ewen, and J. Seibert
 Bias-correction conditioned on circulation patterns for ENSEMBLES precipitation simulations in mountainous regions

GM7.3/HS9.7/NH1.9 – Morphodynamics of steep mountain channels (co-organized) – Orals

Convener: F. Brardinoni | Co-Conveners: JM Turowski, L. Mao, D. Rickenmann, a. Recking

Room: 21

Chairperson: n.n.

- 10:30–10:45 EGU2012-10163
J.W. Kean, S.W. McCoy, G.E. Tucker, D.M. Staley, and J.A. Coe
 Investigating controls on debris-flow initiation and surge frequency at Chalk Cliffs, USA: initial results from monitoring and modeling
- 10:45–11:00 EGU2012-8498
B.W. McArdell and B. Fritsch
 Field measurements of pressure fluctuations on an instrumented wall: implications for channel-bed erosion
- 11:00–11:15 EGU2012-3964
F. Kober, K. Hippe, B. Salcher, S. Ivy-Ochs, P.W. Kubik, M. Christl, and L. Wacker
 Debris flows and cosmogenic catchment wide denudation rates
- 11:15–11:30 EGU2012-1989
L. Marchi
 Control works in debris-flow channels: influence on morphology and sediment transfer
- 11:30–11:45 EGU2012-8590
I. fraccarollo and h capart
 Measurements and theory for transport layer structure in intense bed-load
- 11:45–12:00 EGU2012-1191
F. Mettra, J. Heyman, and C. Ancey
 Characterization of bedload transport in steep-slope streams

GM7.3/HS9.7/NH1.9 – Morphodynamics of steep mountain channels (co-organized) – Posters

Convener: F. Brardinoni | Co-Conveners: JM Turowski, L. Mao, D. Rickenmann, a. Recking

Hall XL | Display Time 08:00–17:00

Author in Attendance: 15:30–17:00

Chairperson: n.n.

- XL140 EGU2012-54
JM Turowski, A. Badoux, J. Leuzinger, and R. Hegglin
 Large floods, alluvial overprint, and bedrock erosion
- XL141 EGU2012-3218
A. Iroume, A. Andreoli, H. Ulloa, V. Sandoval, and L.E. Lara
 Stream channel morphology, sediment and large wood transport evolution patterns following the 2008 Chaitén volcano eruption, Chile

- XL142 EGU2012-5377
D. Franke, J. Hornung, and M. Hinderer
Architectural analysis and chronology of an Alpine alluvial fan using 3D ground penetrating radar investigation and quantitative outcrop analysis
- XL143 EGU2012-6104
L. Marchi, F. Comiti, M. Arattano, M. Cavalli, P. Macconi, and D. Penna
A new debris-flow monitoring system in an Alpine catchment
- XL144 EGU2012-7433
AR Beer, **JM Turowski**, B Fritschi, and D Rieke-Zapp
Field measurements of bedrock erosion driven by bedload impacts
- XL145 EGU2012-6135
K Whitbread, J Jansen, and P Bishop
Controls on the distribution and geometry of postglacial bedrock channels
- XL146 EGU2012-7853
A Dell'Agnese, L Mao, and F Comiti
Sediment mobility and bedload transport rates in a high-elevation glacier-fed stream (Saldur river, Eastern Italian Alps)
- XL147 EGU2012-8115
A. Recking
On how sediment supply impacts step-pool bedload transport
- XL148 EGU2012-9763
E. Rascher, H. Baewert, K.-H. Schmidt, and D. Morche
Comparing the results of bed load transport equations to field measurements in an Alpine river
- XL149 EGU2012-10393
G.L. Bennett, P. Molnar, H. Eisenbeiss, and B.W. McArdell
Photogrammetric analysis of slope failures feeding the head of the Illgraben debris flow channel
- XL150 EGU2012-10740
M. Lazzari, M. Danese, and **D. Gioia**
The contribution of fluvial and mass wasting processes to sedimentary budget in mountain catchments of the southern Apennines, Italy
- XL151 EGU2012-9789
M. Kasai, T. Kimura, and T. Marutani
Airborne LIDAR investigation of lithological controls on river behavior in a mountainous catchment following a major storm event
- XL152 EGU2012-10575
G.L. Bennett, P. Molnar, B.W. McArdell, F. Schlunegger, and P. Burlando
Sediment transfer dynamics in the Illgraben
- XL153 EGU2012-11537
B. Rudaz, A. Loye, B. Mazotti, E. Bardou, and M. Jaboyedoff
Matrosion - Modelling sediment cascade towards prediction of solid mass wasting in steep alpine catchments
- XL154 EGU2012-13477
T. Müller and T. Hoffmann
Simulation of long-term debris flow sediment transport based on a slope stability and a debris flow routing model
- XL155 EGU2012-13692
F. Brardinoni, E. Perina, G. Bonfanti, G. Falsitta, and F. Agliardi
Linking high-resolution geomorphic mapping, sediment sources, and channel types in a formerly glaciated basin of northeastern Alto-Adige/Sudtirolo, Italy
- XL156 EGU2012-11005
T. Michelini, G. Bertoldi, and V. D'Agostino
Different approaches to assess the volume of debris-flows deposits: are results comparable?
- XL157 EGU2012-3538
K.-J. Shou and Y.-Y. Lee
On the Characteristics of the Upstream Bedrock Erosion in Taiwan
- XL158 EGU2012-11263
A. Burtin, N. Hovius, J. Turowski, B. McArdell, and J. Vergne
High-resolution seismic monitoring of geomorphic activity in a catchment
- XL159 EGU2012-6096
K Whitbread, J Jansen, D Fabel, and P Bishop
Fluvial incision in postglacial rivers: distribution, rates and controls
- XL160 EGU2012-10257
P. Molnar
A sandpile model of grain blocking and consequences for sediment dynamics in step-pool streams

Applications (co-organized) – Orals

Convener: V. Pierrard | Co-Conveners: H. Rothkaehl, N. Crosby, M. Menvielle

Room: 26

Chairperson: n.n.

- 13:30–13:45 EGU2012-10238
A. Krankowski, R. Sieradzki, I.E. Zakharenkova, and I.V. Cherniak
 GNSS monitoring of the ionosphere for Space Weather services
- 13:45–14:00 EGU2012-10458
A. Luque and F. J. Gordillo-Vázquez
 Transient Luminous Events: optical emissions from high altitudes to probe the Earth's upper atmosphere
- 14:00–14:15 EGU2012-12927
D. Bilitza and L. McKinnell
 International Reference Ionosphere - A tool for Space Weather Applications: Recent Developments
- 14:15–14:30 EGU2012-9067
G. Cessateur, J. Liliensten, T. Dudok de Wit, A. BenMoussa, and M. Kretzschmar
 New observational strategies for reconstructing the solar UV flux for space weather applications
- 14:30–14:45 EGU2012-1843
P. O. Leye and P. Tarits
 Ionosphere Activity Effects on Anthropogenic VLF Wave measured by DEMETER and Application to Earth Electromagnetic Survey
- 14:45–15:00 EGU2012-6356
D. Przepiórka, M. Gromadzki, M. Grzesiak, and H. Rothkaehl
 Statistical plasma properties in relation to geomagnetic activity derived from Demeter data
- 15:00–15:15 EGU2012-9707
T. Onishi and J.-J. Berthelier
 A statistical analysis of electrostatic turbulence obtained from plasma wave observation by DEMETER satellite
- 15:15–15:30 EGU2012-11339
IW McCrea, A Aikio, and the EISCAT_3D Science Working Group
 Space Weather Studies with EISCAT_3D: Developing the Science Case

ST5.1/NH1.10/PS5.5 – Space Weather and its Effects on Terrestrial and Geo-Space Environments: Science and Applications (co-organized) – Posters

Convener: V. Pierrard | Co-Conveners: H. Rothkaehl, N. Crosby, M. Menvielle

Hall X/Y | Display Time 08:00–17:00

Author in Attendance: 15:30–17:00

Chairperson: H. Rothkaehl

- XY674 EGU2012-3945
Y. Zhang, A. M. Du, X. S. Feng, W. Sun, C. D. Fry, Y. Liu, C. S. Deehr, M. Dryer, and B. Zieger
 Simulated STEREO views of the Solar Wind Disturbances following the CMEs of 1 August 2010
- XY675 EGU2012-5320
Y.I. Yermolaev, N.S. Nikolaeva, I.G. Lodkina, and M.Y. Yermolaev
 Comparison of role of CIR, Sheath and ICME in generation of magnetic storms
- XY676 EGU2012-2341
H. Luo and G. X. Chen
 Solar wind parameters dependence of energy coupling between solar wind and magnetosphere during northward interplanetary magnetic field
- XY677 EGU2012-12544
N. Crosby, A. Veronig, E. Robbrecht, B. Vrsnak, S. Vennerstrøm, O. Malandraki, S. Dalla, N. Srivastava, M. Hesse, and D. Odstrcil
 Forecasting Geomagnetic Storms and Solar Energetic Particle Events: the COMESEP Project
- XY678 EGU2012-4778
 T. Rollett, C. Möstl, M. Temmer, **A.M. Veronig**, C.J. Farrugia, and H.K. Biernat
 Calculation of CME kinematics and propagation directions by constraining STEREO HI-images with in situ signatures at 1 AU
- XY679 EGU2012-2442
E.W. Wolff, M. Bigler, M.A.J. Curran, J.E. Dibb, M.M. Frey, M. Legrand, and J.R. McConnell
 Carrington Event not recorded in nitrate in polar ice cores
- XY680 EGU2012-8897
I. Shagimuratov, A. Krankowski, Iu. Cherniak, I. Zakharenkova, G. Yakimova, and L. Koltunen
 The response of GPS TEC to the sequence of September 2011 geomagnetic storms

- XY681 EGU2012-2339
S.L. Bruinsma
Assessment of the Semi-Empirical Drag Temperature Model (DTM) in the Framework of the FP7 Project ATMOP
- XY682 EGU2012-3482
L. Lu
Time sequence of ring current ion-flux enhancements and ion injections around outer radiation belt during a major storm on 15 May, 2005
- XY683 EGU2012-1769
V. Pierrard and K. Borremans
Space weather effect on the inner magnetosphere: kinetic models for the plasmasphere-ionosphere coupled system, the polar wind and the radiation belts
- XY684 EGU2012-14358
D. Liddle and S. Eve
Low cost missions for space weather monitoring
- XY685 EGU2012-5030
O.V. Khabarova
Possible ways of space weather prediction improvement
- XY686 EGU2012-7843
E. Slominska and H. Rothkaehl
Hemispheric asymmetry of the electron temperature distribution in the topside ionosphere
- XY687 EGU2012-9727
A. Janzhura and O. Troshichev
Special features of procedure for PC index derivation in near-real time
- XY688 EGU2012-14082
P. Wintoft and M. Wik
Predicting local ground magnetic field variations using empirical models
- XY689 EGU2012-4101
C. Stolle, J. Matzka, E. Sarauw, and L. W. Pedersen
DTU Space magnetometer array
- XY690 EGU2012-9026
T.K. Breus and T.A. Zenchenko
Biological object's rhythmic structure formation under influence of external environmental factors during evolution
- XY691 EGU2012-9153
T.A. Zenchenko and T.K. Breus
Amplitude-time characteristics of the individual reactions of healthy people, to the action of meteorological factors
- XY692 EGU2012-7708
F. El-Lemdani Mazouz, C. Lathuillère, M. Menvielle, and S. Bruinsma
A test of geomagnetic indices for a use in upper atmosphere density modelling
- XY693 EGU2012-6435
A. Prestes
Cause of the exceptionally high AE average for 2003
- XY694 EGU2012-3785
P. Stauning
Comparison of Polar Cap (PC) index calculations.
- XY695 EGU2012-3784
P. Stauning
New unifying procedure for PC index calculations.
- XY696 EGU2012-7854
C. Demetrescu and V. Dobrica
On the long-term evolution of the PC index
- XY697 EGU2012-10050
N. Podorozhkina, D. Sormakov, and O. Troshichev
Relation of PC index to magnetic disturbances developing under conditions of northward IMF
- XY698 EGU2012-9875
N. Podorozhkina and O. Troshichev
Invariability of relationship between the polar cap magnetic activity and geoeffective interplanetary electric field
- XY699 EGU2012-10216
O. Troshichev and A. Janzhura
PC index as an indicator of solar wind energy that entered into the magnetosphere: basis for the space weather monitoring

- XY700 EGU2012-10104
O. Troshichev, D. Sormakov, and A. Janzhura
 Sawtooth substorms generated under conditions of the steadily high solar wind energy input into the magnetosphere: reasons for periodicity
- XY701 EGU2012-10149
O. Troshichev and A. Janzhura
 Discrepancy between summer and winter PC indices observed in the course of magnetospheric substorms: Physical implications

NH4.5 – Electro-magnetic phenomena and connections with seismo-tectonic activity – Orals

Convener: P.F. Biagi | Co-Conveners: T. Maggipinto, M. Hayakawa

Room: 4

Chairperson: Pier Francesco Biagi

- 10:30–10:45 EGU2012-1402
M. Parrot and L. Mei
 Automatic analysis of a temporal series to detect variations linked to seismic activity
- 10:45–11:00 EGU2012-3016
D. Piša, F. N?mec, M. Parrot, and O. Santolík
 VLF wave attenuation in the ionosphere observed by the DEMETER spacecraft in the vicinity of earthquakes
- 11:00–11:15 EGU2012-2817
J. Blecki, M. Ko?cieszka, M. Boudjada, M. Parrot, S. Savin, and R. Wronowski
 Comparative studies of the plasma turbulence in the different regions of the ionosphere- discussion of the results from DEMETER satellite
- 11:15–11:30 EGU2012-1734
M. Hayakawa, Y. Kasahara, T. Endoh, Y. Hobara, and S. Asai
 The observation at Chofu of Doppler-shifts of subionospheric LF signal transmitted from Saga, and the mechanism of lithosphere- atmosphere-ionosphere coupling
- 11:30–11:45 EGU2012-1733
M. Hayakawa, Y. Hobara, A. Schekotov, A. Rozhnoi, and M. Solovieva
 Possible precursors to the 2011 3/11 Japan earthquake:
- 11:45–12:00 EGU2012-4222
Y. Hobara, M. Iwamoto, K. Ohta, and M. Hayakawa
 Numerical modeling of seismo-ionospheric disturbances by FDTD method and comparison with experimental results from Japanese VLF observation network

LUNCH BREAK

Chairperson: Masashi Hayakawa

- 13:30–13:45 EGU2012-7249
M. N. Deviren, F. Arikan, U. Sezen, and O. Arikan
 Investigation of Ionospheric Precursors of 23 October 2011, Mw=7.2 Earthquake in Van, Turkey
- 13:45–14:00 EGU2012-1601
T. Maggipinto, P.F. Biagi, F. Righetti, L. Schiavulli, T. Ligonzo, A. Ermini, I.A. Moldovan, A.S. Moldovan, H.G. Silva, M. Bezzeghoud, M.E. Contadakis, D.N. Arabelos, T.D. Xenos, and A. Buyuksarac
 The European Network for studying the radio precursors of earthquakes: Principal Component Analysis of LF radio signals collected during July 2009 - April 2011
- 14:00–14:15 EGU2012-8342
A.A. Namgaladze, O.V. Zolotov, and B.E. Prokhorov
 Main phenomenological features of the TEC variations before Japan March 11, 2011 and Turkey Oct. 23, 2011 EQs and their physical interpretation
- 14:15–14:30 EGU2012-13084
 V. Tramutoli, C. Filizzola, N. Genzano, M. Lisi, R. Paciello, and **N. Pergola**
 Real time of earthquakes prone areas by RST analysis of satellite TIR radiances: results of continuous monitoring over Italy and Turkey regions.
- 14:30–14:45 EGU2012-2134
C. Skeberis, T.D. Xenos, L. Hadjileontiadis, M.E. Contadakis, and D. Arabelos
 Application of Self Adaptive Unsupervised Neural Networks for Processing of VLF-LF signals to detect Seismic-Ionospheric Precursor Phenomena.

- 14:45–15:00 EGU2012-14103
E. Pozzo di Borgo, J. Marfaing, and G. Waysand
 Underground statistical measurements of the world-wide magnetic-background level in the millihertz frequency range with the [SQUID]2 magnetometer
 Chairperson: Tommaso Maggipinto
- 15:30–15:45 EGU2012-1358
F. Dudrin, V. Korepanov, and M. Hayakawa
 Analysis of ULF lithospheric magnetic activity in Kanto region, Japan
- 15:45–16:00 EGU2012-3450
X. Y. Ouyang, X. M. Zhang, X. H. Shen, and Y. Q. Miao
 Anomalous Schumann resonance observed in China, possibly associated with Honshu, Japan
 Earthquake
- 16:00–16:15 EGU2012-10234
D. Ouzounov, S. Pulnits, G. Papadopoulos, V. Kunitsyn, I. Nesterov, M. Hayakawa, K. Mogi, K. Hattori, M. Kafatos, and P. Taylor
 From multi-sensors observations towards cross-disciplinary study of pre-earthquake signals. What have we learned from the Tohoku earthquake?
- 16:15–16:30 EGU2012-8636
M. Y. Boudjada, P.F. Biagi, E. Al-Haddad, K. Schwingenschuh, P.H.M. Galopeau, B. Besser, M. Parrot, G. Prattes, and W. Voller
 Electric environment above European VLF transmitters during the Iceland volcano eruption in spring 2010
- 16:30–16:45 EGU2012-8352
G. C. Anagnostopoulos
 Radiation belt electron precipitation silence in the topside ionosphere a few hours before great ($M > 6$) earthquakes: DEMETER observations
- 16:45–17:00 EGU2012-2836
D. Stanica and D. A. Stanica
 Low frequency anomalous pre-seismic behavior of the electromagnetic normalized functions related to the sub-crustal earthquakes (Vrancea-Romania)

NH4.5 – Electro-magnetic phenomena and connections with seismo-tectonic activity – Posters

Convenor: P.F. Biagi | Co-Conveners: T. Maggipinto, M. Hayakawa

Hall X/Y | Display Time 08:00–17:00

Author in Attendance: 08:30–10:00

Chairperson: Pier Francesco Biagi; Tommaso Maggipinto

- XY155 EGU2012-140
I.V. Popova, A.A. Rozhnoi, M.S. Solovieva, B.V. Levin, M. Hayakawa, K. Schwingenschuh, and P.F. Biagi
 Neural network approach to the prediction of seismic events based on the VLF/LF signal monitoring of the Kuril-Kamchatka region
- XY156 EGU2012-141
P.F. Biagi, F. Righetti, T. Maggipinto, L. Schiavulli, T. Ligonzo, A. Ermini, I.A. Moldovan, A.S. Moldovan, H.G. Silva, M. Bezzeghoud, M. Contadakis, D.N. Arabelos, T.D. Xenos, and A. Buyuksarac
 The European Network for studying the radio precursors of earthquakes: the case of the May 19, 2011 Turkey earthquake ($M_w = 5.7$)
- XY157 EGU2012-5771
P. Milillo, F. Vespe, T. Maggipinto, L. Schiavulli, T. Ligonzo, and P.F. Biagi
 Possible variations of altitude observed on the occasion of the Tohoku earthquake ($M = 9.0$) occurred on March 11, 2011
- XY158 EGU2012-4035
M. Y. Boudjada, I. Moldovan, K. Schwingenschuh, E. Al-Haddad, P.F. Biagi, and M. Parrot
 Demeter/ICE Experiment: Study of low frequency transmitter intensity variations
- XY159 EGU2012-761
D. Wolbang, H. Biernat, K. Schwingenschuh, H. Eichelberger, G. Prattes, B. Besser, M. Y. Boudjada, A. Rozhnoi, M. Solovieva, and P. F. Biagi
 Seismo electro-magnetic parameter study of sub-ionospheric VLF radio links in Europe
- XY160 EGU2012-4609
G. Prattes, K. Schwingenschuh, H.U. Eichelberger, W. Magnes, G. Berghofer, M. Stachel, B. Besser, D. Wolbang, M. Vellante, U. Villante, and P. Nenovski
 The influence of manmade noise and geomagnetic fluctuations on seismo-magnetic signatures

- XY161 EGU2012-8013
K. Schwingenschuh, H. U. Eichelberger, B.P. Besser, G. Prattes, M.Y. Boudjada, G. Stangl, D. Wolbang, A. Rozhnoi, M. Solovieva, P.F. Biagi, M. Friedrich, H. Biernat, and M. Hayakawa
 Atmospheric and ionospheric electrical parameter variations inferred from sub - ionospheric seismo - electromagnetic VLF/LF observations
- XY162 EGU2012-1467
X. Zhang, X. Ouyang, J. Liu, and X. Shen
 The perturbation characteristics in plasma parameters in ionosphere before strong earthquakes
- XY163 EGU2012-2319
 M. E. Contadakis, D.N. Arabelos, and **G. Vergos**
 TEC variations over North-western Balkan Peninsula before and during the seismic activity of 24th May 2009
- XY164 EGU2012-3489
M. Kosciesza, J. Blecki, M. Parrot, and R. Wronowski
 Comparison of the ionospheric plasma turbulence over seismic and equatorial regions.
- XY165 EGU2012-4431
I.A. Moldovan, A.S. Moldovan, A.O. Placinta, E.M. Takla, A.P. Constantin, and E. Popescu
 Possible associations between long term anomalous geomagnetic variations, Vrancea (Romania) intermediate depths earthquakes and the solar activity for the last 15 years
- XY166 EGU2012-4478
I.A. Moldovan, A.S. Moldovan, P.F. Biagi, C. Ionescu, K. Schwingenschuh, and M.Y. Boudjada
 The Terminator Time in subionospheric VLF/LF diurnal variation as recorded by the Romanian VLF/LF radio monitoring system related to earthquake occurrence and volcano eruptions
- XY167 EGU2012-5827
 S. N. Walker, **M. A. Balikhin**, O. A. Pokhotelov, and M. Parrott
 DEMETER ULF observations of turbulence during the period before large earthquakes
- XY168 EGU2012-9651
T. Onishi and J.-J. Berthelier
 Statistical study of plasma density and temperature variations applied to the Great Sichuan Earthquake
- XY169 EGU2012-10188
I. Shagimuratov, Iu. Cherniak, I. Zakharenkova, N. Tepenitsyna, and G. Yakimova
 Investigation of seismo-ionospheric effects associated with Elazig and Van earthquakes in Turkey
- XY170 EGU2012-11625
I. Zakharenkova, Iu. Cherniak, I. Shagimuratov, and O. Suslova
 Investigation of the seismo-ionospheric effects on the base of GPS/GLONASS measurements
- XY171 EGU2012-11721
G. Anagnostopoulos, D. Efthymiadis, and S. Pulnits
 Strong electron precipitation activity in the topside ionosphere (DEMETER) and increased seismic activity observed before (2-4 days) "The night of lighting startled Athens"
- XY172 EGU2012-12281
G. C. Anagnostopoulos
 Space conditions during a month of a sequence of six M>6.8 earthquakes ending with the tsunami of December 26, 2004
- XY173 EGU2012-12507
V. Tramutoli, S. Inan, N. Jakowski, S. Pulnits, A. Romanov, C. Filizzola, I. Shagimuratov, N. Pergola, N. Genzano, M. Lisi, E. Alparlan, V. Wilken, K. Tsybulia, A. Romanov, R. Paciello, M. Balasco, I. Zakharenkova, D. Ouzounov, G. A. Papadopoulos, M. Parrot and the PRE-EARTHQUAKES Team
 Learning from the experience: preliminary results of integration experiments within PRE-EARTHQUAKES EU-FP7 Project.
- XY174 EGU2012-12824
H. U. Eichelberger, G. Prattes, K. Schwingenschuh, D. Wolbang, M. Y. Boudjada, A. Rozhnoi, M. Solovieva, P. F. Biagi, T. Maggipinto, M. Stachel, I. Jernej, Ö. Aydogar, and B. P. Besser
 Characterisation of very low frequency (VLF) fluctuations at the Graz receiver knot in the INFREP system
- XY175 EGU2012-13142
 Ch. Maurer, **C.-V. Meister**, P. Dziendziel, M. Endres, and D.H.H. Hoffmann
 The Darmstadt VLF/LF radiophysical station VADar. First observations of terminator times
- XY176 EGU2012-13204
 B.R. Lee, **C.-V. Meister**, Ch. Maurer, and D.H.H. Hoffmann
 The influence of lightnings on VLF/LF signals observed by radiophysical earthquake prediction stations
- XY177 EGU2012-13264
C.-V. Meister, B. Mayer, and D.H.H. Hoffmann
 Possible variations of E-layer electromagnetic fields by acoustic waves above earthquake preparation regions
- XY178 EGU2012-13330
E.V. Liperovskaya, A.V. Liperovsky, C.-V. Meister, and A.S. Silina
 Daytime dependence of disturbances of ionospheric Es-layers connected to earthquakes

- XY179 EGU2012-13430
R.M. Umarkhodgaev, V.A. Liperovsky, V.V. Mikhailin, C.-V. Meister, and D.Ju Naumov
 IR spectral analysis for the diagnostics of crust earthquake precursors
- XY180 EGU2012-13493
A. Cartwright-Taylor, P. Sammonds, and F. Vallianatos
 Acoustic and pressure-stimulated current emissions from triaxial compression experiments on marble and limestone samples
- XY181 EGU2012-13646
 A. Kotsarenko, V. Grimalsky, A.G. Bravo Osuna, S. Koshevaya, **V. Yutsis**, R. Perez Enriquez, and J.A.L. Cruz Abeyro
 On the Radon-related mechanism of the seismo- and volcanogenic geomagnetic anomalies. Experiment and model.
- XY182 EGU2012-195
 Z. Kereselidze, N. Kachakhidze, and **M. Kachakhidze**
 Lithosphere - Atmosphere - Ionosphere Circuit Model

SM5.1/NH4.7 – Anthropogenic seismicity and seismic hazard: methods, observations and modeling (co-organized) – Orals

Convener: S. Cesca | Co-Conveners: B. Orlecka-Sikora, A. F. do Nascimento, S. Turuntaev, J. Suckale

Room: 27

Chairperson: S. Cesca

- 13:30–13:45 EGU2012-1911
V. Vavrycuk and D. Kuehn
 Determination of source parameters and full moment tensors of seismic events in a very heterogeneous mining environment
- 13:45–14:00 EGU2012-1595
WA Lenhardt
 Rockburst Mechanisms at Great Depth
- 14:00–14:15 EGU2012-12960
S. Wehling-Benatelli, D. Becker, M. Bischoff, W. Friederich, and T. Meier
 Cluster analysis and relative relocation of mining-induced seismicity using HAMNET data
- 14:15–14:30 EGU2012-2775
A. T. Sen, S. Cesca, M. Bischoff, T. Meier, T. Dahm, and D. Kühn
 Full Moment Tensor Inversion and Rupture Modelling of Mining Induced Seismicity
- 14:30–14:45 EGU2012-5314
B. Orlecka-Sikora, S. Cesca, S. Lasocki, L. Rudzinski, L. Lizurek, P. Wiejacz, P. Urban, and M. kozłowska
 Complex source mechanisms of mining-induced seismic events - implications for surface effects
- 14:45–15:00 EGU2012-452
T. Zmushko, S.B. Turuntaev, and V.I. Kulikov
 The influence of the mining operation on the mine seismicity of Vorkuta coal deposit
- Chairperson: B. Orlecka-Sikora
- 15:30–15:45 EGU2012-2336
S. Lasocki and B. Orlecka-Sikora
 Prediction of ground motion due to mining seismic activity: a general prediction scheme applied to assess impacts on tailings pond in Legnica-Glogow Copper District in Poland in the years 2011-2050
- 15:45–16:00 EGU2012-5350
A. Milev, R. Durrheim, M. Nakatani, Y. Yabe, H. Ogasawara, and M. Naoi
 Seismic risk mitigation in deep level South African mines by state of the art underground monitoring - Joint South African and Japanese study
- 16:00–16:15 EGU2012-2938
S.B. Turuntaev, O.Yu. Melchaeva, and S.V. Vorohobina
 Discrimination between induced and natural seismicity by means of nonlinear analysis
- 16:15–16:30 EGU2012-12435
D. Becker, D. Kaiser, S. Wehling-Benatelli, M. Bischoff, and T. Dahm
 Frequency Magnitude Distribution of induced microseismicity - Lessons learned from the mining environment
- 16:30–16:45 EGU2012-11436
C. Dinske, F. Wenzel, and S. A. Shapiro
 Characterisation of the Seismotectonic State of Reservoir Locations Using the Magnitude Distribution of Earthquakes

16:45–17:00 EGU2012-5939
B. Nunes, A. do Nascimento, J. Ferreira, and F. Bezerra
 Reservoir-induced seismicity at Castanhao reservoir, NE Brazil

NH5.2 – Extreme Sea Waves – Orals

Convener: E. Pelinovsky | Co-Conveners: C Kharif, A. Slunyaev

Room: 1

Chairperson: A. Slunyaev. P. Liu

08:30–08:45 EGU2012-746
I. Nikolkina and I. Didenkulova
 Rogue waves in 2006-2011

08:45–09:00 EGU2012-1000
L. Kaplan and L. H. Ying
 Linear and Nonlinear Rogue Wave Statistics in the Presence of Random Currents

09:00–09:15 EGU2012-1350
R. Shamin
 Statistics of Rogue Waves

09:15–09:30 EGU2012-13206
A. Osborne
 Classification of Rogue Waves in 1+1 Dimensions

09:30–09:45 EGU2012-10588
A.I. Dyachenko, V.E. Zakharov, and D.I. Kachulin
 Interaction of breathers in the 2-D free surface hydrodynamics

09:45–10:00 EGU2012-6843
Dr. Schober
 Spectral analysis of the effects of wind and damping on rogue waves

COFFEE BREAK

Chairperson: A. Osborne, A. Dyachenko

10:30–10:45 EGU2012-1729
A. Sergeeva and A. Slunyaev
 Rogue waves, rogue events and extreme wave kinematics in spatio-temporal sheets of simulated sea states

10:45–11:00 EGU2012-1379
A. Slunyaev and V. Shrira
 The problem of the highest wave in a group: fully nonlinear simulations of water wave breathers vs weakly nonlinear theory

11:00–11:15 EGU2012-6255
A. Chabchoub, N. Hoffmann, H. Branger, M. Onorato, and N. Akhmediev
 Wave tank experiments on Peregrine type surface gravity waves

11:15–11:30 EGU2012-512
A. Lechuga
 Generation of rogue waves in a wave tank

11:30–11:45 EGU2012-14238
A. Tomas, M. Menendez, F.J. Mendez, G. Coco, and I.J. Losada
 Predicting the occurrence probability of freak waves based on buoy data and non-stationary extreme value models

11:45–12:00 EGU2012-3870
S.-H. Oh, W.-M. Jeong, and W.-D. Baek
 Characteristics of the large-height swell-like waves on the east coast of Korea

LUNCH BREAK

Chairperson: E. Pelinovsky, L. Kaplan

13:30–13:45 EGU2012-6715
P. Liu, C. Wu, A. Bechle, H. Chen, and K. MacHutchen
 What do we NOT know about freak waves in the ocean and lakes and where to go from here?

- 13:45–14:00 EGU2012-1273
D.-J. Doong, T. Talipova, and E. Pelinovsky
 Shallow freak event modeling in Taiwanese waters
- 14:00–14:15 EGU2012-10047
S. Dobrokhoto
 Near-Front Wave Profile on Shallow Water over a Rapidly Oscillating Bottom Generated by Time-Dependent Spatially Localized Source
- 14:15–14:30 EGU2012-4772
N. Makarenko and V. Kostikov
 Nonlinear water waves generated by impulsive motion of submerged obstacle
- 14:30–14:45 EGU2012-6431
A.N. Serebryany and C.-T. Liu
 Observations of large-amplitude internal wave of the second mode in Luzon Strait
- 14:45–15:00 EGU2012-3200
A. Warn-Varnas and K. Lamb
 Shoaling of internal solitary waves at the ASIAEX site in the South China Sea

NH5.2 – Extreme Sea Waves – Posters

Convener: E. Pelinovsky | Co-Conveners: C Kharif, A. Slunyaev

Hall X/Y | Display Time 08:00–17:00

Author in Attendance: 15:30–17:00

Chairperson: E. Pelinovsky, A. Slunyaev

- XY183 EGU2012-8454
S. I. Badulin, D. V. Ivonin, and V. A. Dulov
 Three-dimensional freak waves and higher-order wave-wave resonances
- XY184 EGU2012-5719
X. Feng, M. Tsimplis, and M. Yelland
 Extreme waves at Polar front of North Atlantic from 2000 to 2009
- XY185 EGU2012-1444
 A. Slunyaev, G.F. Clauss, **M. Klein**, and M. Onorato
 Laboratory tests of short intense envelope solitons
- XY186 EGU2012-1464
 Y.Y. Chen, **H.C. Hsu**, and M.S. Li
 Theoretical Study of Wave Breaking for Nonlinear Water Waves Propagating on a Sloping Bottom
- XY187 EGU2012-113
 I. Didenkulova, E. Pelinovsky, and **A. Rodin**
 Formation of shallow water rogue waves taking into account wave breaking effects
- XY188 EGU2012-603
E. Shurgalina, E. Pelinovsky, A. Sergeeva, T. Talipova, and A. Litra
 KdV - turbulence and extreme waves in shallow water
- XY189 EGU2012-3742
A. Zaytsev, I. Kostenko, E. Pelinovsky, and A. Yalciner
 Freak Waves Registration in 2009 in the Aniva, Bay, Okhotsk Sea
- XY190 EGU2012-2833
K.I. Kuznetsov, G.V. Shevchenko, P.D. Kovalev, and A.A. Kurkin
 Statistics of surface waves off the south-eastern coast of the Sakhalin Island on a base of the data of instrumental measurements in 2006 - 2008
- XY191 EGU2012-128
E. Shurgalina and E. Pelinovsky
 Swell freak wave manifestation on the background weak wind wave field
- XY192 EGU2012-4828
N. Makarenko and E. Ulanova
 The density stratification and amplitude dispersion of internal waves
- XY193 EGU2012-1279
T. Talipova, K. Terletska, V. Maderich, I. Brovchenko, R. Grimshaw, and E. Pelinovsky
 Loss of energy in transition of internal solitary wave over the bottom step
- XY194 EGU2012-1703
R. Thomas, C. Kharif, and H. Branger
 A nonlinear Schrödinger equation for water waves on finite depth with constant vorticity
- XY195 EGU2012-74
E. Pelinovsky and T. Talipova
 Strong wave transformation under uneven bottom: analytical results

- XY196 EGU2012-75
E. Pelinovsky, E. Pasternak, A. Dyskin, and B. Gurevich
Reflectionless low-frequency seismic wave propagation in the "Reference Earth Model"
- XY197 EGU2012-123
E. Batcyna, N. Petruhin, and E. Pelinovsky
Computer modeling of the Earth's atmosphere via reflectionless layers
- XY198 EGU2012-453
S. Kshevetskii and **K. Thiruvengadasamy**
Numerical Modeling of Overturning of a Tsunami wave running onto a Shore with an abrupt declination of sea bottom
- XY199 EGU2012-6913
V. Maximov, I. Nudner, G. Khakimzyanov, K. Semenov, and E. Pelinovsky
Extreme Waves Interaction with Construction of a Mixed Profile
- XY200 EGU2012-2271
Sh. Gagoshidze
To the Calculation of Storm Surges in Closed and Open Sea Water Areas
- XY201 EGU2012-1516
N. Chaykovskaya and A. Rodin
The role of PR in the formation of psychological readiness for a rogue wave events.

NH6.2 – Snow avalanche dynamics including interaction with structures, hazard mapping and risk management – Orals

Convener: F. Naaïm-Bouvet | Co-Conveners: T. Faug, M. NAAIM, E. Surinach

Room: 9

Chairperson: n.n.

- 10:30–10:45 EGU2012-1074
M.Y. Louge, C.S. Carroll, and B. Turnbull
Frontal Dynamics of Powder Snow Avalanches
- 10:45–11:00 EGU2012-6601
B. Sovilla and B. Blaschke
Density and granulometric structure of wet and dry-snow avalanches
- 11:00–11:15 EGU2012-13805
T. Faug, B. Chanut, P. Caccamo, and M. Naaïm
Physically-sound scaling laws for snow avalanche impact pressure
- 11:15–11:30 EGU2012-3000
C. Kröner and S. P. Pudasaini
Three-dimensional modeling and numerical simulations of avalanches over a real mountain topography
- 11:30–11:45 EGU2012-9337
B. Frigo, V. De Biagi, and B. Chiaia
Vulnerability assessment in avalanche hazardous areas
- 11:45–12:00 EGU2012-11141
P. Dobesberger and A. Zeidler
Determining the impact of a changing climate on avalanche hazard potential - A practical approach

NH6.2 – Snow avalanche dynamics including interaction with structures, hazard mapping and risk management – Posters

Convener: F. Naaïm-Bouvet | Co-Conveners: T. Faug, M. NAAIM, E. Surinach

Hall X/Y | Display Time 08:00–17:00

Author in Attendance: 13:30–15:00

Chairperson: n.n.

- XY202 EGU2012-12482
A. Prokop, V. Vionnet, F. Naaïm, G. Guyomarc'h, and H. Bellot
Combination of measurement methods to investigate snow drift and blowing snow parameters
- XY203 EGU2012-4434
W. Steinkogler, B. Sovilla, and M. Lehning
Influence of snow-cover properties on avalanche dynamics
- XY204 EGU2012-12620
J.-T. Fischer, M. Granig, and P. Jörg
Snow entrainment in applied avalanche modeling using SamosAT
- XY205 EGU2012-621
M. Eglit
The effect of snow entrainment on avalanche dynamics

- XY206 EGU2012-7004
A. Turchaninova
Application of statistical and dynamics models for snow avalanche hazard assessment in mountain regions of Russia
- XY207 EGU2012-10501
H. Bellot, **F. Naaim-Bouvet**, T. Faug, M. Naaim, P. Caccamo, and F. Ousset
First measurements of pressure and velocity on breaking mounds in Taconnaz avalanches path : Event of 29th December 2010
- XY208 EGU2012-8063
D. Dallavalle, P. Scotton, and P.R. Tecca
Three-dimensional dynamic topographic survey of granular flows using photogrammetric techniques
- Hall X/Y | Display Time 08:00–17:00**
Author in Attendance: 15:30–17:00
Chairperson: n.n.
- XY209 EGU2012-2980
C. Kröner, S. P. Pudasaini, and S. A. Miller
Influence of obstacles on the dynamics of rapid granular chute flows
- XY210 EGU2012-13123
P. Caccamo, F. Naaim-Bouvet, H. Bellot, F. Ousset, and T. Faug
Experimental measurements on a powder avalanche impacting an obstacle: 3D velocity field and exerted pressures
- XY211 EGU2012-12570
J.-T. Fischer and M. Granig
An objective analysis method in applied avalanche modeling
- XY212 EGU2012-13907
P. Favier, D. Bertrand, N. Eckert, and M. Naaim
Optimal design of snow avalanche passive defence structure using reliability approach to quantify buildings vulnerability
- XY213 EGU2012-14094
I. Ousset, D. Bertrand, M. Brun, A. Limam, and M. Naaim
Reinforced concrete structures loaded by snow avalanches : numerical and experimental approaches.
- XY214 EGU2012-2306
S. Fabregas, **R. Hurtado**, and J. Mintegui
The protection of Canfranc Internation Railway Sattion against natural risks. Analysis and evaluation of its effectiveness 100 years later.

NH8.1 – Heavy-metal contamination of the environment – Orals

Convener: J. A. Holden | Co-Conveners: B. D. Malamud, S. Oeztan

Room: 8

Chairperson: J.A. Holden and S. Oeztan

13:30–14:15 **2 minute Author Poster Summaries**

14:15–15:00 **Discussion**

NH8.1 – Heavy-metal contamination of the environment – Posters

Convener: J. A. Holden | Co-Conveners: B. D. Malamud, S. Oeztan

Hall X/Y | Display Time 08:00–17:00

Author in Attendance: 10:30–12:00

Chairperson: n.n.

- XY215 EGU2012-413
Ong MC, Menier D, Noor Azhar MS, Dupont V, and Révillon S
Occurrence and distribution of selected heavy metals in the surface sediments of South Brittany coastal waters: An assessment using pollution indicators
- XY216 EGU2012-2303
Me. Maanan, P. Fattal, M. Maanan, A-C Ruiz-Fernández, and M. Sahabi
Evaluation of the anthropogenic influx of metallic pollutants into the Oualidia lagoon, Morocco
- XY217 EGU2012-5541
M I Irfan and T Meisel
An integrated geochemical, geophysical and mineralogical study of river sediments in alpine area and soil samples near steel plant, in Austria

- XY218 EGU2012-2995
A. Poitevin, C. Lerouge, G. Wille, P. Bataillard, and L. Henneet
 Synchrotron x-ray and electron micro-probe study of contaminated dredged sediments.
- XY219 EGU2012-8738
A. musallam, M. El Tokhi, S. Al Abed, and B. Mahmoud
 Heavy Metals and Petroleum Hydrocarbons Contamination of Bottom Sediments of Gulf of Oman area, United Arab Emirates
- XY220 EGU2012-12000
E. Bagnato, M. Sprovieri, M. Bitetto, M. Bonsignore, S. Calabrese, V. Di Stefano, E. Oliveri, F. Parello, and S. Mazzola
 Distribution and air-sea exchange of mercury (Hg) in polluted marine environments
- XY221 EGU2012-12511
D. Mucke, R. Kumann, and S. Mucke
 Heavy-metal contamination of rivers by mining gallery waters during the flood in 2002 in Saxony/Germany and low-cost rapid analysis of contaminated river sediments by XRF
- XY222 EGU2012-12903
C. Hissler, R. Hostache, P. Matgen, Z. Tosheva, E. David, P. Bates, and P. Stille
 Combining multitracing and 2D-modelling to identify the dynamic of heavy metals during flooding.
- XY223 EGU2012-4108
V. Andreu, E. Gimeno, E. Fernandez-Despiau, and J.A. Pascual
 Incidence and distribution of heavy metals in soils of a Mediterranean coastal wetland (L'Albufera de Valencia, Spain)
- XY224 EGU2012-4925
M. Udatný, M. Mihaljevi?, Y. Kochergina, and O. Šebek
 Speciation of hazardous elements released from glass-works fly ash into soils.
- XY225 EGU2012-12329
D. Mucke
 Heavy-metal contamination of soils in Saxony/Germany by foundry fumes and low-cost rapid analyses of contaminated soils by XRF
- XY226 EGU2012-13357
M.J. de la Torre, C. Hidalgo, J. Rey, and J. Martínez
 Mineralogical characterization of tailing dams: incidence of abandoned mining works on soil pollution (Linares, Jaén)
- XY227 EGU2012-7112
A. Vanek, M. Komarek, and I. Galuskova
 Arsenic release from Fe/Mn oxide-rich (model) soils/sediments - A comparison of single extraction procedures
- XY228 EGU2012-4506
S. Oeztan and R.-A Duering
 Closed vessel microwave assisted extraction - An innovative method for determination of trace metals in plant materials
- XY229 EGU2012-8532
V. Ettler, V. Knytl, M. Komarek, L. Della Puppa, M. Mihaljevic, and O. Sebek
 Stability of amorphous hydrous manganese oxide in contrasting soils and implications for its use in chemical stabilization of metals/metalloids in contaminated soil environments
- XY230 EGU2012-12887
R. Abou Jaoudé, A. Pricop, I. Laffont-Schwob, P. Prudent, J. Rabier, V. Masotti, G. de Dato, and P. De Angelis
 Evaluating the potential use of Tamarix gallica L. for phytoremediation practices in heavy-metal polluted soils
- XY231 EGU2012-10430
P. Favas, J. Pratas, and M.N.V. Prasad
 Evaluation of the potential of Callitriche stagnalis for phytoremediation of uranium-contaminated waters: from field into the laboratory
- XY232 EGU2012-13654
 W. Xu, **L. Y. Li**, and J. R. Grace
 Aluminum colloid formation and its effect on co-precipitation of zinc during acid rock drainage remediation with clinoptilolite in a slurry bubble column
- XY233 EGU2012-6522
A. Abdaal, G. Jordan, P. Szilassi, J. Kiss, and G. Detzky
 Testing contamination risk assessment methods for toxic elements from mine waste sites
- XY234 EGU2012-6972
J. Choi, M.K Ji, H.S Yun, Y.T Park, E.D Gee, W.R Lee, and B.-H Jeon
 Inhibition of Sulfide Mineral Oxidation by Surface Coating Agents: Batch
- XY235 EGU2012-7070
P. Völgyesi, G. Jordan, and Cs. Szabo
 Long-term airborne contamination studied by attic dust in an industrial area: Ajka, Hungary

XY236 EGU2012-1058

P. Censi, L.A. Randazzo, S. D'Angelo, A. Cuttitta, and F. Saiano

REE incorporation and behaviour in aquatic turtles as a consequence of environmental exposure and biological processes

NH8.3 – Medical Geohazards and Geochemistry – Orals

Conveners: R. Crockett, P. Censi | Co-Conveners: G. Gillmore, M. L. Giannossi, Y. Erel, T. Darrah, L. Randazzo

Room: 8

Chairperson: P. Censi and R. Crockett

- 15:30–15:35 **Summary Oral Presentation: Urinary stone formation occurring at the interface of mineralogical and biological phases**
- 15:35–15:40 **Summary Oral Presentation: "Naturally occurring asbestos" (NOA) hazard in the Alps and Corsica, France: insights from geological mapping and petrological study**
- 15:40–15:45 **Summary Oral Presentation: Balneological Evaluation of the Tafadek Spring, Agadez Region, Niger Republic**
- 15:45–15:50 **Summary Oral Presentation: Environmental and indoor study of Radon concentration in San Joaquin area, Queretaro, Mexico**
- 15:50–15:55 **Summary Oral Presentation: Diagnosis of rare inherited glyoxalate metabolic disorders through in-situ analysis of renal stones**
- 15:55–16:00 **Summary Oral Presentation: The mathematical model of radon-222 accumulation in underground mines**
- 16:00–16:05 **Summary Oral Presentation: Dynamics of soil gas radon concentration in a high permeable soil based on a long-term high-resolution measurement series**
- 16:05–16:10 **Summary Oral Presentation: Study of a cave's air exchange pattern based on radon concentration and the time dependence of radon concentration in Pal-volgy Cave**
- 16:10–16:15 **Summary Oral Presentation: United role of radon decay products and nano-aerosols in radon dosimetry**
- 16:15–16:20 **Summary Oral Presentation: The role of natural ventilation in the exposure to radon in the Postojna Cave**
- 16:20–16:25 **Summary Oral Presentation: Erionite and other fibrous zeolites in volcanic environments: the need for a risk assessment in Italy**
- 16:25–16:30 **Summary Oral Presentation: Asbestos exposure during quarrying and processing of serpentinites: a case study in Valmalenco, Central Alps, Northern Italy**
- 16:30–16:35 **Summary Oral Presentation: Radon Emissions from Radium-Dial Watches**
- 16:35–16:40 **Summary Oral Presentation: Environmental monitoring and radiation protection in Skocjan Caves, Slovenia**
- 16:40–16:45 **Summary Oral Presentation: Medical Geology in the Middle East: Potential Health Risks from Mineralized Dust Exposure**
- 16:45–17:00 **Discussion**

NH8.3 – Medical Geohazards and Geochemistry – Posters

Conveners: R. Crockett, P. Censi | Co-Conveners: G. Gillmore, M. L. Giannossi, Y. Erel, T. Darrah, L. Randazzo

Hall X/Y | Display Time 08:00–17:00

Author in Attendance: 08:30–10:00

Chairperson: R. Crockett, P. Censi, G. Gillmore, M. Giannossi, Y. Erel, T. Darrah, L. Randazzo

XY237 EGU2012-417

J.M. Baumann and B. Affolter

Urinary stone formation occurring at the interface of mineralogical and biological phases

XY238 EGU2012-1668

M.B. Lyles, H.L. Fredrickson, A.J. Bednar, H.B. Fannin, D.W. Griffin, and T.M. Sobecki

Medical Geology in the Middle East: Potential Health Risks from Mineralized Dust Exposure

XY239 EGU2012-13974

K Nghargbu, T Latour, I Ponikowska, and E Kurowska

Balneological Evaluation of the Tafadek Spring, Agadez Region, Niger Republic

XY240 EGU2012-8624

D.E. Jacob, B. Grohe, B. Hoppe, B.B. Beck, and R. Tessadri

Diagnosis of rare inherited glyoxalate metabolic disorders through in-situ analysis of renal stones

XY241 EGU2012-5740

A. Cavallo and B. Rimoldi

Erionite and other fibrous zeolites in volcanic environments: the need for a risk assessment in Italy

- XY242 EGU2012-5753
A. Cavallo and B. Rimoldi
Asbestos exposure during quarrying and processing of serpentinites: a case study in Valmalenco, Central Alps, Northern Italy
- XY243 EGU2012-7931
F. Cagnard, D. Lahondère, O. Blein, A. Lahfid, and G. Wille
"Naturally occurring asbestos"
- XY244 EGU2012-2343
V. Debevec Gerjevič and P. Jovanovič
Environmental monitoring and radiation protection in Škocjan Caves, Slovenia
- XY245 EGU2012-4829
K. Z. Szabó, Á. Horváth, Gy. Jordán, and Cs. Szabó
Dynamics of soil gas radon concentration in a high permeable soil based on a long-term high-resolution measurement series
- XY246 EGU2012-4912
H. E. Nagy, A. Horvath, Gy. Jordan, Cs. Szabo, and A. Kiss
Study of a cave's air exchange pattern based on radon concentration and the time dependence of radon concentration in Pál-völgy Cave (Budapest, Hungary)
- XY247 EGU2012-6980
A. Gregorič, M. Smerajec, and J. Vaupotič
The role of natural ventilation in the exposure to radon in the Postojna Cave
- XY248 EGU2012-9950
M. Smerajec and J. Vaupotič
United role of radon decay products and nano-aerosols in radon dosimetry
- XY249 EGU2012-9044
G. Gillmore and R. Crockett
Radon Emissions from Radium-Dial Watches.
- XY250 EGU2012-12235
A. Klimshin
The mathematical model of radon-222 accumulation in underground mines
- XY251 EGU2012-13500
A. Kotsarenko, G. Hernandez Silva, N.A. Hinojo Alonso, **V. Yutsis**, V. Grimalsky, S. Koshevaya, and J. Martínez Reyes
Environmental and indoor study of Radon concentration in San Joaquin area, Querétaro, México

NH9.2 – Social capacity building: an emerging field of research and practice for Europe – Orals

Convener: C. Kuhlicke | Co-Conveners: A. Steinführer

Room: 1

Chairperson: C. Kuhlicke, A. Steinführer

- 15:30–15:45 EGU2012-4093
M. Buchecker and E. Maidl
Effects of risk communication on natural hazards on real estate owners' risk perception and risk behaviour
- 15:45–16:00 EGU2012-8809
I. Stanciugelu, V. Frunzaru, I. Armas, A. Duntzer, and S. Stan
Social Amplification of Risk and Crisis Communication Planning - Case Study
- 16:00–16:15 EGU2012-5591
C. Bianchizza, D. Del Bianco, L. Pellizzoni, and A. Scolobig
Interventionist and participatory approaches to flood risk mitigation decisions: two case studies in the Italian Alps
- 16:15–16:30 EGU2012-10710
S. Schneiderbauer, L. Pedoth, and M. Zebisch
Integrating social capacity into risk reduction strategies
- 16:30–16:45 EGU2012-6295
B. Komac, M. Zorn, R. Ciglič, and A. Steinführer
Understanding European education landscape on natural disasters - a textbook research
- 16:45–17:00 EGU2012-6902
M. Evers
Collaborative modelling for interactive participation in urban flood risk management

NH9.2 – Social capacity building: an emerging field of research and practice for Europe – Posters

Convener: C. Kuhlicke | Co-Conveners: A. Steinführer

Hall X/Y | Display Time 08:00–17:00

Author in Attendance: 13:30–15:00

Chairperson: A. Steinführer, C. Kuhlicke

- XY252 EGU2012-1170
M. Buchecker and S. Menzel
Effects of stakeholder involvement in river management
- XY253 EGU2012-4362
P. Pipan
Public participation in reconstruction after the earthquakes in Friuli (Italy) and the Upper Soca Valley (Slovenia) in 1976, 1998, and 2004
- XY254 EGU2012-5627
S. Tapsell and S. McCarthy
Social vulnerability assessment: a growing practice in Europe?
- XY255 EGU2012-8353
C. Begg and G. Walker
Social capacity building towards flood risk resilience in England: The impact of shifts in risk governance
- XY256 EGU2012-10095
M. Bründl and L. Stoffel
IFKIS - ten years of experience with the intercantonal early warning and crisis information system as a good-practice example for local capacity building
- XY257 EGU2012-11686
e. moulin and j-f. deroubaix
The integration of the risk in the governance of urban projects: a key issue for a resilient city
- XY258 EGU2012-12131
J. Luther, V. Meyer, C. Kuhlicke, S. Scheuer, and H. Unnerstall
Improving Flood Risk Maps as a Capacity Building Activity: Fostering Public Participation and Raising Flood Risk Awareness in the German Mulde Region (project RISK MAP)
- XY259 EGU2012-11648
M. Supramanaim and M. Di Masso
Three different lenses for social capacity building: Bridging the gap between practice and theory
- XY260 EGU2012-10865
C. Begg, C. Kuhlicke, A. Steinführer, and J. Luther
Social Capacity Assessment for communities and organisations in the CapHaz-Net context
- XY261 EGU2012-12170
I. Arma?, R.Z. Cre?u, and I. St?nciugelu
Psychological Factors Linked to Risk Perception
- XY262 EGU2012-11561
A. Masi, M. Mucciarelli, L. Chiauuzi, G. De Costanzo, and G. Loperte
Emergency preparedness activities during an ongoing seismic swarm: the experience of the 2011-2012 Pollino (Southern Italy) sequence
- XY263 EGU2012-13675
W. Biernacki, **J. Dzia?ek**, and A. Bokwa
Social attitudes towards floods in Poland - spatial differentiation
- XY264 EGU2012-4542
G Walker and F Tweed
A framework for profiling the characteristics of risk governance in diverse European natural hazard contexts

NH9.3 – The Costs of Natural Hazards – Orals

Convener: H. Kreibich | Co-Conveners: L. Bouwer, R. Schwarze

Room: 8

Chairperson: H. Kreibich

- 08:30–08:45 EGU2012-4474
V. Meyer, N. Becker, V. Markantonis, R. Schwarze, J.C.J.M. van den Bergh, L. M. Bouwer, P. Bubeck, P. Ciavola, A.H. Thieken, E. Genovese, C. Green, S. Hallegatte, H. Kreibich, Q. Lequeux, C. Viavattene, I. Logar, E. Papyrakis, C. Pfurtscheller, J. Poussin, V. Przyluski and the Costs of Natural Hazards (CONHAZ) Team
Cost assessment of natural hazards in Europe - state-of-the-art, knowledge gaps and recommendations
- 08:45–09:00 EGU2012-14091
J. Mysiak, I. Galarraga, A. Garrido, E. Interwies, C. van Bers, V. Vandenberghe, F. Farinosi, S. Foudi, S. Görlitz, N. Hernández-Mora, M. Gil, and C. Grambow
The value of knowing better - Losses from natural hazards

- 09:00–09:15 EGU2012-5022
B.F. Prah, D. Rybski, J.P. Kropp, O. Burghoff, and H. Held
Stochastic Modeling of Empirical Storm Loss in Germany
- 09:15–09:30 EGU2012-11563
E. Genovese, V. Przyluski, and S. Hallegatte
What do costs really tell us? Lessons from Xynthia windstorm in France
- 09:30–09:45 EGU2012-165
M. Bostenaru Dan
Decision making based on analysis of benefit versus costs of preventive retrofit versus costs of repair after earthquake hazards
- 09:45–10:00 EGU2012-5784
D. Molinari, G.T. Aronica, F. Ballio, N. Berni, and C. Pandolfo
Flood damage data gathering: procedures and use

COFFEE BREAK

Chairperson: L. Bouwer

- 10:30–10:45 EGU2012-7518
B. Merz, H. Kreibich, and U. Lall
What are the important flood damage-influencing parameters? A data mining approach
- 10:45–11:00 EGU2012-1869
C. Pfurtscheller, B. Lochner, and **A. Brucker**
Estimating regional long-term economic consequences of natural hazards - a case study of the 2005 flood event in Tyrol (Austria)
- 11:00–11:15 EGU2012-1142
F.F. Hattermann, **S. Huang**, O. Burghoff, W. Willems, H. Österle, M. Büchner, and Z. Kundzewicz
Modeling flood damages under climate change - a case study for Germany
- 11:15–11:30 EGU2012-3004
N. Saint-Geours, F. Grelot, J.-S. Bailly, and C. Lavergne
Flood damage maps: ranking sources of uncertainty with variance-based sensitivity analysis
- 11:30–11:45 EGU2012-12377
P. Brémond and F. Grelot
What amount of flood damages miss assessment methods by neglecting induced damages on activity?
- 11:45–12:00 EGU2012-1848
P. Bubeck, H. Kreibich, W.J.W. Botzen, and J.C.J.H. Aerts
Spatial and temporal spread of flood mitigation measures implemented by private households along the Rhine and their effectiveness

NH9.3 – The Costs of Natural Hazards – Posters

Convener: H. Kreibich | Co-Conveners: L. Bouwer, R. Schwarze

Hall X/Y | Display Time 08:00–17:00

Author in Attendance: 13:30–15:00

Chairperson: R. Schwarze

- XY265 EGU2012-4496
M. Bründl
EconoMe-Develop - a calculation tool for multi-risk assessment and benefit-cost-analysis
- XY266 EGU2012-7014
P. Pigeon
Challenges related with risk governance in France : panarchy and the need for multi-scale social capacity building.
- XY267 EGU2012-1231
S. Zhao and G Gao
Characteristics of the Main Meteorological Disasters in China During 1951-2008
- XY268 EGU2012-2075
M. Choffet, J. Demierre, M. Imhof, and M. Jaboyedoff
Impact of a hailstorm on a building portfolio. Analysis of Cost structure and modeling of hail event consequences
- XY269 EGU2012-8269
N. Hernández-Mora, A. Garrido, and **M. Gil**
The socioeconomic impacts of the 2004-2008 drought in the Ebro river basin (Spain): A comprehensive and critical assessment

- XY270 EGU2012-7663
B. Jongman, H. Kreibich, P.D. Bates, A.P.J. de Roo, J.I. Barredo, A. Gericke, H. Apel, J. Neal, J.C.J.H. Aerts, and P.J. Ward
 Comparative flood damage model assessment: Towards a European approach
- XY271 EGU2012-1918
H. Kreibich, S. Meyer, and B. Diekkrüger
 Further development of FLEMOps for the modelling of damage to residential buildings caused by high groundwater levels
- XY272 EGU2012-5838
T. C. Do and H. Kreibich
 Flood loss assessment in Can Tho City, Vietnam
- XY273 EGU2012-7452
P.J. Ward, J.C.J.H. Aerts, H. De Moel, and J.K. Poussin
 How are flood risk estimates affected by the choice of return-periods?
- XY274 EGU2012-5532
A. Beckers, S. Detrembleur, B. J. Dewals, L. Gouverneur, S. Dujardin, P. Archambeau, S. Erpicum, and M. Pirotton
 Relative impacts of climate and land use changes on future flood damage along River Meuse in Wallonia
- Hall X/Y | Display Time 08:00–17:00**
 Author in Attendance: 15:30–17:00
 Chairperson: R. Schwarze
- XY275 EGU2012-3999
S. A. Arévalo, S. Reichel, M. Schindewolf, and J. Schmidt
 Muddy floods in Saxony: occurrence, damages and costs
- XY276 EGU2012-3158
 O. Petrucci and **L. Vranken**
 Determination of natural and socio-economic factors affecting landslide damage: an econometric approach using empirical evidence from the Calabria Region (Southern Italy)
- XY277 EGU2012-2080
I. Arma?
 Landslide risk assessment for individual buildings. A case study from the Prahova Subcarpathians, ROMANIA
- XY278 EGU2012-6406
B. Schwendtner, M. Papathoma-Köhle, and T. Glade
 Loss estimation of future debris flow events in alpine areas-The application of a vulnerability analysis method in Martell Valley (South Tyrol, Italy)
- XY279 EGU2012-18
H.Z. Abidin, I. Gumilar, H. Andreas, and Y. Fukuda
 Assessment of the Economic Losses Resulting from Land Subsidence in Bandung Basin, Indonesia
- XY280 EGU2012-11687
A. Kontogianni, C. Tourkolias, M. Voutsoukas, and M. Skourtos
 The social cost of coastal erosion. Using cultural theory to enrich the interpretation of stated preference data.
- XY281 EGU2012-1186
S. Latchman and M. Simic
 Incorporating Uncertainty in Ground Motion into Damage Estimation Calculations
- XY282 EGU2012-1184
S. Latchman and M. Simic
 Quantifying the Variability in Damage of Structures as a Result of Geohazards
- XY283 EGU2012-11245
M. Bostenaru-Dan
 Modelling the costs of natural hazards in games

