

EGU General Assembly 2012
Programme Group Programme
ESSI – Earth & Space Science Informatics

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Monday, 23 April

ESSI1.2/OS4.7 – Informatics in Oceanography and Ocean Science (co-organized) – Orals

Convener: G. M. R. Manzella | Co-Conveners: D. M. A. Schaap, A. Alvarez

Room: 25

Chairperson: Dick Schaap

- 13:30–13:45 EGU2012-1163
G. Breitbach and H. Krasemann
Web Services as Building Blocks for an Open Coastal Observing System
- 13:45–14:00 EGU2012-1258
C.L. Chandler, R.C. Groman, M.D. Allison, P.H. Wiebe, D.M. Glover, and S.R. Gegg
Effective Management of Ocean Biogeochemistry and Ecological Data: the BCO-DMO Story
- 14:00–14:15 EGU2012-1638
M. Fichaut, **D. Schaap**, G. Maudire, and G.M.R. Manzella
SeaDataNet: Pan-European infrastructure for ocean and marine data management
- 14:15–14:30 EGU2012-1643
A. Novellino, D. Schaap, G.M.R. Manzella, S. Pouliquen, and P. Goringe
EMODnet Physical Parameters (EMODNet PP) Portal
- 14:30–14:45 EGU2012-4601
H. Glaves and **D. Schaap**
Geo-Seas - building a unified e-infrastructure for marine geoscientific data management in Europe
- 14:45–15:00 EGU2012-6399
R. Proctor, P. Blain, and S. Mancini
Oceans of Data : the Australian Ocean Data Network

ESSI1.6 – Laser Scanning: 3D Spatial Data, Analysis, and Infrastructures in Geosciences – Orals

Convener: B. Höfle | Co-Conveners: N. Pfeifer, B. Székely, A. Zipf

Room: 32

Chairperson: Bernhard Höfle

- 08:30–09:00 EGU2012-13998
C. Baru, R. Arrowsmith, C. Crosby, V. Nandigam, M. Phan, and C. Cowart
OpenTopography
- 09:00–09:15 EGU2012-6324
B. Höfle, M. Forbriger, C. Siart, and E. Nowaczinski
Fusion of terrestrial LiDAR and tomographic mapping data for 3D karst landform investigation
- 09:15–09:30 EGU2012-5081
M. A. Brovelli, L. Biagi, and G. Zamboni
DTMs: discussion of a new multi-resolution function based model
- 09:30–09:45 EGU2012-6665
M. Milenković, B. Székely, G. Mandlbürger, and N. Pfeifer
Characterization of artificial and natural roughness present in DTMs derived from Airborne Laser Scanning data
- 09:45–10:00 EGU2012-4372
T. Dewez and J. Costeraste
Global dynamic topography: geoscience communities requirements
- 10:00–10:05 **Wrap Up**

COFFEE BREAK

Chairperson: Balazs Szekely

- 10:30–11:00 EGU2012-8378
G. Mandlbürger, M. Pfennigbauer, F. Steinbacher, and N. Pfeifer
Potential of a novel airborne hydrographic laser scanner for capturing shallow water bodies
- 11:00–11:15 EGU2012-8299
F. Bretar, P. Mériaux, and C. Fauchard
How integrating 3D LiDAR data in the dike surveillance protocol: The French case

- 11:15–11:30 EGU2012-6411
K. Koenig and B. Höfle
 Laser Scanning for 3D Object Characterization: Infrastructure for Exploration and Analysis of Vegetation Signatures
- 11:30–11:45 EGU2012-5316
I. Davenport, K. Fieber, R. Gurney, J. Ferryman, J. Hacker, and J. Walker
 Extracting vertical foliage profiles of individual Eucalypt trees using last significant return airborne laser altimetry and on-site photography
- 11:45–12:00 EGU2012-11539
A. Ziinszky, W. Mücke, H. Lehner, C. Briese, and N. Pfeifer
 Vegetation mapping from medium-density discrete echo Airborne Laser Scanning data: a case study of the Lake Balaton wetlands

NH7.3/AS4.3/BG2.25/ESSI1.8/NP4.6/SSS5.24 – 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. Csizar, 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/ESS1.8/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. Arpaci, 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. Csizsar, 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

ESSI2.9 – Intelligent geo-Information Management in the Future Internet – Orals

Convener: Dr. Havlik | Co-Conveners: Z A Sabeur, S. Nativi, W. Schmidt

Room: 7

Chairperson: n.n.

15:30–15:45 EGU2012-14355

Z. A Sabeur, H Denis, and S Nativi

Advanced situation awareness with localised environmental community observatories in the Future Internet

15:45–16:00 EGU2012-7404

B. Stollberg

Development of a Mobile Application for Disaster Information and Response

16:00–16:15 EGU2012-13173

S. Fritz, P. Purgathofer, F. Kayali, M. Fellner, M. Wimmer, T. Sturn, G. Triebnig, S. Krause, F. Schindler, M. Kollegger, C. Perger, M. Dürauer, W. Haberl, L. See, and I. McCallum

Landspotting: Social gaming to collect vast amounts of data for satellite validation

16:15–16:30 EGU2012-12902

B Arbab-Zavar, A. Chakravarthy, and Z A Sabeur

Geospatial intelligence and visual classification of environmentally observed species in the Future Internet

16:30–16:45 EGU2012-12384

N. Dawes, M. Bavay, T. Egger, S. Sarni, A. Salehi, A. Davison, H. Jeung, K. Aberer, and M. Lehning

From sensor networks to connected analysis tools

16:45–17:00 EGU2012-14432

P. Slusallek, R. Jochem, K. Sons, and H. Hoffmann

Intelligent Visualization of Geo-Information on the Future Web

17:00–17:15 EGU2012-8430

M. Plieger

Automatic visualization of OpenDAP data resources using OGC services.

Tuesday, 24 April

ESSI1.2/OS4.7 – Informatics in Oceanography and Ocean Science (co-organized) – Orals

Convener: G. M. R. Manzella | Co-Conveners: D. M. A. Schaap, A. Alvarez

Room: 25

Chairperson: Giuseppe Manzella

- 15:30–15:45 EGU2012-8644
G. Griffiths, J. Blower, X. Yang, T. Loubrieu, and **K. Haines**
Web-based visualisation of ocean data in MyOcean
- 15:45–16:00 EGU2012-9816
Y. Sagarminaga, I. Galparsoro, R. Reig, and J.A. Sánchez
Development of ITSASGIS-5D: seeking interoperability between Marine GIS layers and scientific multidimensional data using open source tools and OGC services for multidisciplinary research.
- 16:00–16:15 EGU2012-8517
S. Bainbridge
Cloud-based serviced-orientated data systems for ocean observational data - an example from the coral reef community
- 16:15–16:30 EGU2012-7935
A. Sokolov, P. Axe, S. Bock, S. Kaitala, O. H. Manscher, M. Rodriguez-Medina, R. Olsonen, I. Priha, and K. Tikka
Access to distributed marine databases on the Baltic Sea
- 16:30–16:45 EGU2012-10503
T. Hamre, S. Sandven, A. Leadbetter, V. Gouriou, D. Dunne, M. Grant, M. Treguer, and Ø. Torget
EUMIS - an open portal framework for interoperable marine environmental services
- 16:45–17:00 EGU2012-11036
E. Boldrini, B. Broeren, D. M. A. Schaap, S. Nativi, and G. M. R. Manzella
Revision and documentation of the CDI metadata model as a ISO 19115 profile
- 17:00–17:15 EGU2012-10663
C. Wosniok, G. Breitbach, and R. Lehfeldt
A Common Metadata System for Marine Data Portals
- 17:15–17:30 EGU2012-11439
T. Loubrieu, J. Dorandeu, V. Claverie, K. Cordier, Y. Barzic, O. Lauret, T. Jolibois, and J. Blower
MyOcean Information System : achievements and perspectives

ESSI1.2/OS4.7 – Informatics in Oceanography and Ocean Science (co-organized) – Posters

Convener: G. M. R. Manzella | Co-Conveners: D. M. A. Schaap, A. Alvarez

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Giuseppe Manzella

- XL116 EGU2012-12023
M. Ouberdous, C. Troupin, A. Barth, A. Alvera-Azcárate, and J.-M. Beckers
Diva software, a tool for European regional seas and Ocean climatologies production
- XL117 EGU2012-14020
A. Grigoriev and A.G. Zatsepin
Validation of numerical model of waters dynamics of the Black Sea (Russian zone)
- XL118 EGU2012-7018
H. Glaves, S. Miller, and D. Schaap
Mind the Gap: furthering the development of EU-US collaboration in marine geoscience.
- XL119 EGU2012-5662
C. Troupin, M. Ouberdous, A. Barth, A. Alvera-Azcarate, D. Sirjacobs, and J.-M. Beckers
Comparison between Optimal Interpolation (OI) and Data-Interpolating Variational Analysis (Diva) for the generation of analysis and error gridded fields
- XL120 EGU2012-13062
R. Arko, C. Chandler, P. Clark, A. Milan, and J. Mize
Rolling Deck to Repository (R2R): A "Linked Data" Approach for the U.S. Academic Research Fleet
- XL121 EGU2012-2521
A. Jovicic, A. Castelli, and Z. Kljajic
SEA ODC - An Implementation of Web Portal and B2B Services for Managing of Oceanographic Data Sets Collected in South-East Adriatic

- XL122 EGU2012-6247
A. Palazov, V. Slabakova, and V. Marinova
 Post-deployment evaluation of T-S data measured by Argo floats in the Black Sea: Regional approach
- XL123 EGU2012-8622
S.-H. Choi, S.-D. Kim, H.-W. Choi, S.-Y. Park, J.H. Oh, and S.-H. Baek
 Development of KORDI Ocean Data Portal Web Service for Integrated Data Service
- XL125 EGU2012-7083
A. Palazov, A. Stefanov, V. Marinova, and V. Slabakova
 Marine Web Portal as an Interface between Users and Marine Data and Information Sources
- XL126 EGU2012-10550
R. Fernandes, P.C. Leitão, F. Braunschweig, F. Lourenço, P. Galvão, and R. Neves
 Using Numerical Models in the Development of Software Tools for Risk Management of Accidents with Oil and Inert Spills

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

ESSI1.4 – New Data Paradigms, Modeling, and International Collaboration Strategies for Earth System Sciences (including Ian McHarg Medal Lecture) – Posters

Convener: D. K. Arctur | Co-Conveners: M. Ramamurthy, M. Petitdidier, B. Lawrence, S. Fiore, K. Lehnert, L. J. Slooten, D. Lunt

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: David Arctur

- XL127 EGU2012-10066
M. L. Allison, K. T. Gallagher, **S.M. Richard**, and V. B. Hutchison
Strategic Roadmap for the U.S. Geoscience Information Network
- XL128 EGU2012-2711
O. Raymond, **G. Duclaux**, E. Boisvert, C. Cipolloni, S. Cox, J. Laxton, F. Letourneau, S. Richard, A. Ritchie, M. Sen, J.-J. Serrano, B. Simons, and J. Vuollo
GeoSciML v3.0 - a significant upgrade of the CGI-IUGS geoscience data model
- XL129 EGU2012-1456
C. Trabant, T. Ahern, Y. Suleiman, R. Karstens, and B. Weertman
Easy access to geophysical data sets at the IRIS Data Management Center
- XL130 EGU2012-10136
L. Bydekerke, **C. Tote**, T. Jacobs, and S. Gilliams
Improved agriculture and forest management in Africa through the AGRICAB project
- XL131 EGU2012-8483
S. Bernonville, O. Goussev, S. Falke, F. Lindsay, C. S. Lynnes, W. Yang, P. Zhao, and J. Johnson
A Community-oriented CEOS Atmospheric Composition Portal (ACP)
- XL132 EGU2012-6355
L.M. de Vries, P. Trinchero, and J. Molinero
MCPHreeqc: Extending geochemical modelling with automatic stochastic simulations
- XL133 EGU2012-680
D. Jarecka, S. Arabas, M. Fijalkowski, and A. Gaynor
On the tradeoffs of programming language choice for numerical modelling in geoscience. A case study comparing modern Fortran, C++/Blitz++ and Python/NumPy.
- XL134 EGU2012-4166
D. E. Reusser, W. Buytaert, and C. Vitolo
RHydro - Hydrological models and tools to represent and analyze hydrological data in R
- XL135 EGU2012-8983
Y. L. Ekinici and E. Yi?itba?
GMinterp, A Matlab Based Toolkit for Gravity and Magnetic Data Analysis: Example Application to the Airborne Magnetic Anomalies of Biga Peninsula, NW Turkey
- XL136 EGU2012-12938
I. Sandric, P. Ursaru, D. Chitu, B. Mihai, and I. Savulescu
Web processing service for landslide hazard assessment
- XL137 EGU2012-3346
C. Gokceoglu, N. Yesiloglu-Gultekin, A.S. Keceli, E.A. Sezer, A.B. Can, and H. Bayhan
An Experimental Study on the Min-Image Production for Determination of Mineral Percentages
- XL138 EGU2012-6341
D. D'Alimonte, T. Kajiyama, and G. Zibordi
High-spatial resolution numerical simulations of in-water radiative transfer processes
- XL139 EGU2012-759
V Vilarrasa, S Olivella, O Silva, and J Carrera
Numerical Simulation of Non-Isothermal CO2 Injection Using the Thermo-Hydro-Mechanical Code CODE_BRIGHT
- XL140 EGU2012-3979
L. Gross, C. Altinay, J. Fenwick, and L. Gao
Combining Numerical and Symbolic Computing in Python
- XL141 EGU2012-4837
K. Glushak, S. Legutke, H.-D. Hollweg, J. Wegner, H. Widmann, K. Fieg, M. Lautenschlager, M. Giorgetta, J. Jungclaus, and C. Reick
The German contribution to the IPCC/AR5 (CMIP5)
- XL142 EGU2012-5601
M. Schubert-Frisius, K. Meier-Fleischer, P. Lenzen, K. Keuler, H.-J. Panitz, M. Büchner, and S. Legutke
CORDEX experiments with the RCM 'CCLM' using the DKRZ modelling environment IMDI
- XL143 EGU2012-7739
I. Santos, **D. Dalimonte**, and J.P Santos
Sky-Radiance Models for Monte Carlo Radiative Transfer Applications
- XL144 EGU2012-8625
D. Sidorenko, T. Rackow, T. Semmler, T. Jung, Q. Wang, S. Danilov, J. Schröter, and D. Barbi
Coupled FESOM/ECHAM5 setup, strategies and solutions
- XL145 EGU2012-9124
G. Föll, T. Weigelt, S. Kindermann, M. Lautenschlager, and F. Toussaint
Web Services and Handle Infrastructure - WDCC's Contributions to International Projects
- XL146 EGU2012-12983
J. Donners, N. Audiffren, and J.-M. Molines
Towards petascaling of the NEMO ocean model

- XL147 EGU2012-13199
P. Grzempowski, B. Kontny, J. Bogusz, and A. K?os
 Using GIS for calculation and visualization of the velocity field

ESSI1.6 – Laser Scanning: 3D Spatial Data, Analysis, and Infrastructures in Geosciences – Posters

Convener: B. Höfle | Co-Conveners: N. Pfeifer, B. Székely, A. Zipf

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XL148 EGU2012-5743
N. Slatcher, M. R. James, and G. Hunter
 Optimising terrestrial LIDAR field deployment
- XL149 EGU2012-9864
I. Nichersu, I. Grigoras, A. Constantinescu, M. Mierla, and C. Tifanov
 Processing and utilization of LiDAR data as a support for a good management of DDBR
- XL150 EGU2012-10798
S. Ghuffar, B. Székely, A. Roncat, A. Pocsai, and N. Pfeifer
 An investigation of landslide deformation using range flow motion constraint applied on LiDAR data
- XL151 EGU2012-11709
C. Bewes, I. Hartmeyer, M. Keuschnig, and L. Schrott
 Semi-automatic discontinuity extraction from rock faces with LIDAR and Photogrammetry. A comparison validated by geotechnical data.
- XL152 EGU2012-12954
A. Vre?ko, G. Kovacs, T. Podobnikar, and B. Székely
 The Effects of the Terrain Variation and Changed Parameters of the Moving Window on the LIDAR DEM Spectrum
- XL153 EGU2012-13722
P. Dorninger, Z. Koma, and B. Székely
 The influence of control parameter estimation on large scale geomorphological interpretation of pointclouds
- XL154 EGU2012-442
N. Kamp
 Using High-Resolution Airborne LiDAR-Data for Landslide Mapping in the Eastern Alps
- XL155 EGU2012-2578
Y. S. Hayakawa
 Morphological analysis of waterfall cliff face by terrestrial laser scanning
- XL156 EGU2012-5131
G. Gattolin, M. Franceschi, A. Breda, G. Teza, and N. Preto
 Three dimensional modeling of depositional geometries. A case study from Tofane Group (Dolomites, Italy).
- XL157 EGU2012-9200
T. Knudsen and S. L. Kokkendorff
 Updating a national scale LiDAR based height model
- XL158 EGU2012-9495
A. Mayr, M. Rutzinger, M. Bremer, C. Wiegand, K. Klinger, and C. Geitner
 Analysis of shallow landslides by morphometry parameters derived from terrestrial laser scanning point clouds
- XL159 EGU2012-9742
Zs. Koma, A. Pocsai, B. Székely, P. Dorninger, A. Zámolyi, and A. Roncat
 Analysis of multitemporal laserscanned DTMs of an active landslide (Doren, Western Austria) using a robust plane-fitting segmentation
- XL160 EGU2012-11485
M. Forbriger, B. Höfle, C. Siart, K. Schitteck, and O. Bubenzer
 High-resolution Terrestrial Laser Scanning (TLS) on cushion peatlands - a case study from the Peruvian Andes

ESSI2.4 – Full lifecycle of data and large scale data analytics – Orals

Convener: C. Jacobs | Co-Conveners: S. Fiore, G. Aloisio, D. K. Arctur, P. Fox, B. Lawrence

Room: 25

Chairperson: Cliff Jacobs, Giovanni Aloisio

- 08:30–08:45 EGU2012-11999
M. Mayernik, K. Kelly, M. Marilino, and M. Wright
 Bridging data lifecycles: tracking data use via data citations

- 08:45–09:00 EGU2012-3020
J. van de Vegte and W.J. Som de Cerff
Preserving & Serving 150 years of KNMI data
- 09:00–09:15 EGU2012-11863
R. Cook, W. Michener, D. Vieglaiss, A. Budden, and R. Koskela
DataONE: A Distributed Environmental and Earth Science Data Network Supporting the Full Data Life Cycle
- 09:15–09:30 EGU2012-7045
L. Wyborn
Why the Petascale era will drive improvements in the management of the full lifecycle of earth science data.
- 09:30–09:45 EGU2012-12278
S. Worley and D. Schuster
Data Reuse and Transparency in the Data Lifecycle
- 09:45–10:00 EGU2012-10855
M. Juckes, V. Balaji, B.N. Lawrence, M. Lautenschlager, S. Denvil, G. Aloisio, P. Kushner, and D. Waliser
ExArch: Climate analytics on distributed exascale data archives
- 10:00–10:15 EGU2012-13278
V. D. Mihon, V. Colceriu, F. Bektas, K. Allenbach, M. Gvilava, and D. Gorgan
Spatial Data Exploring by Satellite Image Distributed Processing

ESSI2.5 – Metadata, Data Models, and Semantics – Orals

Convener: A. Woolf | Co-Conveners: S J D Cox, L. Bigagli, P. Diviacco, J.D. Blower

Room: 25

Chairperson: n.n.

- 10:30–10:45 EGU2012-2097
P. Diviacco
Addressing contrasting cognitive models in scientific collaboration
- 10:45–11:00 EGU2012-14029
J. Echterhoff, **I. Simonis**, and R. Atkinson
Time Varying Feature Data
- 11:00–11:15 EGU2012-6437
P. Fox and A. Maffei
Facilitating Next Generation Science Collaboration: Respecting and Mediating Vocabularies with Information Model Driven Semantics in Ecosystems Assessments.
- 11:15–11:30 EGU2012-8327
J. Eberle, S. Hese, and C. Schmullius
Linking from Earth Observation Data and Products to executable web-based Algorithms based on Metadata
- 11:30–11:45 EGU2012-12859
E. Rozell, H. Wang, P. West, S. Zednik, and P. Fox
Configurable User Interface Framework for Data Discovery in Cross-Disciplinary and Citizen Science
- 11:45–12:00 EGU2012-8945
X. Yang, J. Blower, D. Cornford, J. Maso, A. Zabala, L. Bastin, V. Lush, and P. Diaz
A Data Quality Information Model for Earth Observation
- 12:00–12:15 EGU2012-10415
M. Lutz, C. Portele, S. Cox, and K. Murray
Code lists for interoperability - Principles and best practices in INSPIRE

ESSI2.6 – Uncertainty in Environmental Data and Models – Orals

Convener: D. Cornford | Co-Conveners: G. Heuvelink, E. Pebesma, S. Nativi

Room: 25

Chairperson: Dan Cornford

- 13:30–13:45 EGU2012-13402
J. D. Brown
Approaches for quantifying and removing conditional biases from hydrologic ensemble predictions
- 13:45–14:00 EGU2012-4421
L.E. Gerharz, C. Autermann, H. Hopmann, C. Stasch, and E. Pebesma
Uncertainty visualisation in the Model Web

- 14:00–14:15 EGU2012-10330
J. Radoux and P. Bogaert
Size effect on the polygon-based estimation of user's, producer's and overall accuracies
- 14:15–14:30 EGU2012-9319
A. K. Steiner and the RO Trends Intercomparison Team
Assessing Structural Uncertainty in Climate Data Records from GPS Radio Occultation
- 14:30–14:45 EGU2012-6509
R. Jones, D. Cornford, and A. Boukouvalas
Sensitivity Analysis in the Model Web
- 14:45–15:00 EGU2012-10374
B.R. Denby, J. Horálek, F. de Leeuw, and P. de Smet
Uncertainty assessment in European air quality mapping and exposure studies
- 15:00–15:15 EGU2012-1580
M. J. Smith, D. W. Purves, M. C. Vanderwel, V. Lyutsarev, and S. Emmott
Towards accounting for all known sources of uncertainty in earth system models: fully data-constraining a global terrestrial carbon model

Wednesday, 25 April

ESSI1.4 – New Data Paradigms, Modeling, and International Collaboration Strategies for Earth System Sciences (including Ian McHarg Medal Lecture) – Orals

Convener: D. K. Arctur | Co-Conveners: M. Ramamurthy, M. Petitdidier, B. Lawrence, S. Fiore, K. Lehnert, L. J. Slooten, D. Lunt

Room: 25

Chairperson: n.n.

- 08:30–08:45 EGU2012-13563
M. L. Allison, R. Atkinson, D.K. Arctur, S. Cox, I. Jackson, **S. Nativi**, and L.A. Wyborn
International Convergence on Geoscience Cyberinfrastructure
- 08:45–09:00 EGU2012-3100
P. Mazzetti and S. Nativi
Addressing sustainable contributions to GEO/GEOSS from Science and Technology Communities: the EGIDA Methodology
- 09:00–09:15 EGU2012-13370
K. Lehnert and J. Klump
The Geoscience Internet of Things
- 09:15–09:30 EGU2012-2019
M. Stockhause, H. Höck, M. Kurtz, M. Lautenschlager, and F. Toussaint
Federated Quality Control Procedure for CMIP5 / IPCC-AR5 Data
- 09:30–09:45 EGU2012-5663
N. Bonora, M. Benito, I. Abou El-Magd, P. Mazzetti, and C. Ndong
Networking environmental metadata: a pilot project for the Mediterranean Region
- 09:45–10:00 EGU2012-13615
B. L. Bye
International funding of geoscience: The development of collaborative funding mechanisms of GEOSS

COFFEE BREAK

Chairperson: n.n.

- 10:30–10:45 EGU2012-7451
W. Hugo
Massive Meta-Data: A New Data Mining Resource
- 10:45–11:00 EGU2012-2840
I. Honkonen, S. von Althan, A. Sandroos, P. Janhunen, and M. Palmroth
Parallel grid library with adaptive mesh refinement for development of highly scalable simulations
- 11:00–12:00 EGU2012-14465
P. Fox
The Changing Conduct of Geoscience in a Data Intensive World (Ian McHarg Medal Lecture)

EOS6/ESSI2.3 – Modern Geoinformatics and Education (co-organized) – Orals

Convener: M. Zhilin

Room: 25

Chairperson: n.n.

- 13:30–13:45 EGU2012-10824
M. Zhilin
Novices and Experts in Geoinformatics: the Cognitive Gap.
- 13:45–14:00 EGU2012-2390
S. Nativi
Lowering Entry Barriers for Multidisciplinary Cyber(e)-Infrastructures
- 14:00–14:15 EGU2012-13196
C. Baru, L. Allison, P. Fox, C. Keane, R. Keller, and S. Richard
GET21: Geoinformatics Training and Education for the 21st Century Geoscience Workforce
- 14:15–14:30 EGU2012-11224
P. Fox
Bringing Data Science, Xinformatics and Semantic eScience into the Graduate Curriculum

- 14:30–14:45 EGU2012-2221
V. Gershenzon, O. Gershenzon, M. Sergeeva, V. Ippolitov, and O. Targulyan
 UniScan technology for innovative laboratory at a university for acquisition data from space in real-time
- 14:45–15:00 EGU2012-12363
T. Stefanut, D. Gorgan, G. Giuliani, and P. Cau
 Earth Observation oriented teaching materials development based on OGC Web services and Bashyt generated reports

ESSI2.12 – Real Use of Standards and Technologies - Live Demonstrations – Orals

Convener: J. van de Vegte | Co-Conveners: D. K. Arctur, M. Santoro

Room: 7

Chairperson: John van de Vegte

- 15:30–15:45 EGU2012-2989
I. Simonis, N. Alameh, and G. Percivall
 Real World Data and Service Integration: Demonstrations and Lessons Learnt from the GEOSS Architecture Implementation Pilot Phase Four
- 15:45–16:00 EGU2012-3268
S. Richard, L. Allison, R. Clark, C. Coleman, and G. Chen
 US Geoscience Information Network, Web Services for Geoscience Information Discovery and Access
- 16:00–16:15 EGU2012-5734
J. de Jesus, P. Walker, and M. Grant
 Creating OGC Web Processing Service workflows using a web-based editor
- 16:15–16:30 EGU2012-10995
M. Santoro, G. Dubois, M. Schulz, J.O. Skøien, S. Nativi, S. Peedell, and E. Boldrini
 Enhancements of the “eHabitat
- 16:30–16:45 EGU2012-12250
M. Hammitzsch, S. Reißland, and M. Lendholt
 A Walk through TRIDEC's intermediate Tsunami Early Warning System
- 16:45–17:00 EGU2012-12911
J.D. Blower, G. Griffiths, X. Yang, T. Loubrieu, and K. Haines
 Web-based visualisation of ocean data in MyOcean using Web Map Services
- 17:00–17:15 EGU2012-13490
J. Merka, T. Narock, and A. Szabo
 On the main standards driving the Virtual Magnetospheric and Heliospheric Observatories and their benefits to users

ESSI2.12 – Real Use of Standards and Technologies - Live Demonstrations – Posters

Convener: J. van de Vegte | Co-Conveners: D. K. Arctur, M. Santoro

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: David Arctur

- XL45 EGU2012-3213
I. Demir, W.F. Krajewski, R. Goska, R. Mantilla, L.J. Weber, and N. Young
 Iowa Flood Information System: Towards Integrated Data Management, Analysis and Visualization
- XL46 EGU2012-5546
M. Plieger, J. vd Vegte, J.F. Meirink, and R. Roebeling
 Visualization of cloud physical properties derived from Meteosat using OGC Web Map Services.
- XL47 EGU2012-6543
J. Gasperi
 Interoperability And Value Added To Earth Observation Data
- XL48 EGU2012-11266
A. Bröring, S. Sankaran, S. Jirka, and A. Wytzisk
 A Sensor Observation Service Extension for the GeoServices REST API
- XL49 EGU2012-12733
M. Rautenhaus and A. Dörnbrack
 A web service based tool to plan atmospheric research flights
- XL50 EGU2012-13464
B. Domenico and J. Weber
 Demonstration of Data Interactive Publications
- XL51 EGU2012-13873
 M. Craglia, **L. Vaccari**, M. Santoro, and S. Nativi
 Integrated brokering framework for multi-disciplinary research

XL52 EGU2012-13943
D. Misev and P. Baumann
Optimizability of OGC Standards Implementations - a Case Study

Thursday, 26 April

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

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

Room: 1

Chairperson: Joachim Wächter

- 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/ESSI1.7 – 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

EOS6/ESSI2.3 – Modern Geoinformatics and Education (co-organized) – Posters

Convener: M. Zhilin

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- A1 EGU2012-786
A. Bashev
 Open Geoscience Database
- A2 EGU2012-3207
I. Demir and W.F. Krajewski
 Information Communication using Knowledge Engine on Flood Issues

ESSI2.4 – Full lifecycle of data and large scale data analytics – Posters

Convener: C. Jacobs | Co-Conveners: S. Fiore, G. Aloisio, D. K. Arctur, P. Fox, B. Lawrence

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: David Arctur

- XY403 EGU2012-2115
S. Fiore and G. Aloisio
 The Ophidia Project: Towards Large Scale Climate Data Analytics
- XY404 EGU2012-13136
 F. Laliberté, P. Kushner, **M. Juckes**, and S. Denvil
 Can the ExArch framework facilitate the computation of stormtracks statistics in a petabyte archive?
- XY405 EGU2012-11785
J. P. Iannacone, C. Iasio, F. Ronchetti, S. Schneiderbauer, and A. Corsini
 Analysis of morpho-dynamics of South Tyrol, using filtered Permanent Scatterers.
- XY406 EGU2012-3216
I. Demir and W.F. Krajewski
 A Web-based Data Intensive Visualization of Real-time River Drainage Network Response to Rainfall
- XY407 EGU2012-2935
A. Leadbetter, S. Callaghan, R. Lowry, G. Moncoiffé, S. Donnegan, S. Pepler, N. Cunningham, P. Kirsch, L. Ault, P. Bell, R. Bowie, K. Harrison, B. Smith-Haddon, A. Wetherby, D. Wright, and M. Thorley
 Data publication activities in the Natural Environment Research Council
- XY408 EGU2012-13502
R. Jacob, X. Xu, J. Krishna, S. Mickelson, T. Tautges, M. Wilde, K. Peterson, J. Yin, M. Haley, and D. Brown
 Parallel Analysis Tools for Ultra-Large Climate Data Sets
- XY409 EGU2012-1552
B. Domenico and J Weber
 Data Interactive Publications

- XY410 EGU2012-12206
M. Pirchiner, M.S. Assumpção and the IAG-USP Seismology Group Team
Lifecycle of Seismological Data at IAG-USP
- XY411 EGU2012-13773
A. Griffith, S. Dosemagen, and J. Warren
Complete data lifecycles and citizen science integration via The Public Laboratory
- XY412 EGU2012-7060
R. Woodcock and **L. Wyborn**
Working Towards New Transformative Geoscience Analytics Enabled by Petascale Computing
- XY413 EGU2012-9594
R. Signell and P. Fox
Report on GeoData 2011 Workshop - Data Life Cycle, Integration and Citation
- XY414 EGU2012-11058
J. Schopf
The Production Data Approach for Full Lifecycle Management
- XY415 EGU2012-12035
F. Fetterer, M. Parsons, **M. Ramamurthy**, J. Moore, and M. Serreze
Arctic to Archive: Life Cycle Data Support Services for Arctic Research Data
- XY416 EGU2012-13029
I. McCallum, H.P. Plag, and S. Fritz
Data Citation Standard: A Means to Support Data Sharing, Attribution, and Traceability
- XY417 EGU2012-13360
N. Ritchey
Lessons Learned from the Application of NOAA's "What to Archive"

ESSI2.5 – Metadata, Data Models, and Semantics – Posters

Convener: A. Woolf | Co-Conveners: S J D Cox, L. Bigagli, P. Diviacco, J.D. Blower

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY418 EGU2012-13275
D. Valentine, P. Taylor, and I. Zaslavsky
WaterML, an Information Standard for the Exchange of in-situ hydrological observations
- XY419 EGU2012-7761
X. Qin, **R.D. Müller**, J. Cannon, T.C.W Landgrebe, and C. Heine
The GPLates Geological Information Model and Markup Language
- XY420 EGU2012-1021
B. D. Gutknecht and M. R. Alvers
GoEarth - performance and challenges of a semantic search engine for CCS literature
- XY421 EGU2012-2943
A. Leadbetter, R. Lowry, and O. Clements
The NERC Vocabulary Server: Version 2.0
- XY422 EGU2012-7374
M. Ebner, M. Schiegl, W. Stöckl, and H. Heger
From printed geological maps to web-based service oriented data products - strategies, foundations and problems.
- XY423 EGU2012-5872
M. Nagni, S. Ventouras, and G. Parton
Implementation of UML Schema to RDBM
- XY424 EGU2012-14005
K. Schleidt, S. Cox, S. Grellet, D. Lowe, M. Lutz, C. Portele, A. Sarretta, and S. Ventouras
Observations and Measurements Design Patterns within INSPIRE
- XY425 EGU2012-11652
S. Zednik, G. Leptoukh, C. Lynnes, and **P. Fox**
A Quality Label Presentation of Product Quality for Aerosol Satellite Data Products
- XY426 EGU2012-12801
A. Zabala, **J Masó**, and X. Pons
Inheritance rules for Hierarchical Metadata Based on ISO 19115
- XY427 EGU2012-8085
A. Zielinski, U. Bügel, L. Middleton, S. E. Middleton, and L. Tokarchuk
Multilingual Analysis of Twitter News in Support of Mass Emergency Events

- XY428 EGU2012-11682
T. Loubrieu, J.C. Donnart, S. Bregent, J. Blower, and G. Griffith
 Oceanotron server for marine in-situ observations : a thematic data model implementation as a basis for the extensibility
- XY429 EGU2012-13652
R. Kottmann, V. Ratmeyer, A. Pop Ristov, and A. Boetius
 Collaborative web-based annotation of video footage of deep-sea life, ecosystems and geological processes

ESSI2.6 – Uncertainty in Environmental Data and Models – Posters

Convener: D. Cornford | Co-Conveners: G. Heuvelink, E. Pebesma, S. Nativi

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Dan Cornford

- XY430 EGU2012-2951
K. Vogel, C. Riggelsen, N. Kuehn, and F. Scherbaum
 Graphical Models as Surrogates for Complex Ground Motion Models
- XY431 EGU2012-4148
D. E. Reusser, H.V. Senaratne, L. Gerharz, T. Sterzel, T. Nocke, and M. Wrobel
 User preferences for the presentation of uncertainties on web platforms for climate change information
- XY432 EGU2012-4401
L.E. Gerharz, E. Pebesma, and B. Denby
 Assessing uncertain human exposure to ambient air pollution using environmental models in the Web
- XY433 EGU2012-4617
B. Gräler and C. Stasch
 Flexible Representation of Spatio-Temporal Random Fields in the Model Web
- XY434 EGU2012-5947
T Krueger
 Uncertainty in the frequency distribution of water quality parameters: comparing three Bayesian approaches
- XY435 EGU2012-6367
S. Bell, D. Cornford, L. Bastin, and M. Molyneux
 Uncertainty in User-contributed Weather Data
- XY436 EGU2012-10900
S. Krähenmann and B. Ahrens
 Spatial gridding of daily maximum and minimum 2-m temperatures backed with satellite observations
- XY437 EGU2012-7806
A. K. Runge and F. Scherbaum
 The Quantification of Consistent Subjective Logic Tree Branch Weights for PSHA
- XY438 EGU2012-10332
 M. Hermkes, N. Kuehn, C. Riggelsen, and **K. Vogel**
 Information Sharing Between Ground Motion Models from Different Regions via Dirichlet Process Priors
- XY439 EGU2012-10352
V. Lush, J. Lumsden, J. Masó, P. Díaz, and I. McCallum
 GEO Label: User and Producer Perspectives on a Label for Geospatial Data
- XY440 EGU2012-8362
J. Masó, P. Díaz, M. Ninyerola, E. Sevillano, and X. Pons
 GEOSS Clearinghouse Quality Metadata Analysis

ESSI2.7 – Service Architecture challenges for multi-disciplinary systems – Orals

Convener: S. Nativi | Co-Conveners: W. Som de Cerff, B. Domenico

Room: 7

Chairperson: S. Nativi, W. Som de Cerff

- 15:30–15:45 EGU2012-1227
C. Jacobs
 A vision for, and progress towards EarthCube
- 15:45–16:00 EGU2012-13942
P. Baumann
 Towards Direct Manipulation and Remixing of Massive Data: The EarthServer Approach
- 16:00–16:15 EGU2012-5263
A. Patterson
 Using SOA Patterns to promote understanding across disciplines

- 16:15–16:30 EGU2012-6081
M.G. Schultz, R.B. Husar and the GEO Air Quality Community of Practice Team
 Status and Roadmap of the Global Air Quality Data Network
- 16:30–16:45 EGU2012-6124
H.-P. Plag, G. Foley, S. Jules-Plag, G. Ondich, and J. Kaufman
 The GEOSS User Requirement Registry (URR): A Cross-Cutting Service-Oriented Infrastructure Linking
 Science, Society and GEOSS
- 16:45–17:00 EGU2012-8651
S. Pascoe, R. Wilkinson, and P. Kershaw
 Benchmarking OPeNDAP services for modern ESM data workloads
- 17:00–17:15 EGU2012-12873
R.D. Bentley, D. Berghmans, and A. Csillaghy
 A Collaborative Research Environment for Heliophysics

ESSI2.7 – Service Architecture challenges for multi-disciplinary systems – Posters

Convener: S. Nativi | Co-Conveners: W. Som de Cerff, B. Domenico

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY441 EGU2012-5220
L. Bigagli, M. Santoro, R. Roncella, and P. Mazzetti
 A web service for service composition to aid geospatial modelers
- XY442 EGU2012-5282
 L. Bigagli, **F. Papeschi**, P. Mazzetti, and S. Nativi
 GeoViQua: quality-aware geospatial data discovery and evaluation
- XY443 EGU2012-5744
J. Pearlman, S. Nativi, M. Craglia, J. Huerta, JM Rubio-Iglesias, and JJ Serrano
 Advances in Multi-disciplinary Interoperability
- XY444 EGU2012-6057
H.-P. Plag
 A Geo-Label for Geo-Referenced Information as a Service for Data Users and a Tool for Facilitating Societal
 Benefits of Earth Observations
- XY445 EGU2012-6168
S. Nativi, L. Vaccari, K. Stock, L. Diaz, and M. Santoro
 The EuroGEOSS Advanced Operating Capacity
- XY446 EGU2012-8836
S. Longo, S. Nativi, C. Leone, S. Migliorini, and L. Mazari Villanova
 Italian Polar Metadata System
- XY447 EGU2012-9808
A. Spinuso, L. Trani, L. Frobert, and T. Van Eck
 Towards a single seismological service infrastructure in Europe
- XY448 EGU2012-11286
 I. Garcia Gil, **R. Perez Moreno**, O. Perez Navarro, and R. Leone
 Architecture analysis for European Long-Term Archiving EO systems
- XY449 EGU2012-11495
I. Garcia Gil, R. Perez Moreno, O. Perez Navarro, V. Platania, D. Ozerov, and R. Leone
 Using dCache in Archiving Systems oriented to Earth Observation
- XY450 EGU2012-12742
B. Cecconi, S. Erard, M. Gangloff, P. Le Sidaner, J. Berthier, N. Bourrel, N. André, and C. Jacquey
 Europlanet-IDIS: Towards a Planetary Virtual Observatory Prototype

ESSI2.9 – Intelligent geo-Information Management in the Future Internet – Posters

Convener: Dr. Havlik | Co-Conveners: Z A Sabeur, S. Nativi, W. Schmidt

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY451 EGU2012-12534
B. L. Bye, I. McCallum, and J. Maso
 GEO label: The General Framework for Labeling and Certification
- XY452 EGU2012-13158
 C.B. Geyer and **D. Havlik**
 Mobile VGI applications for the Future Internet

- XY453 EGU2012-10157
F. Zander and S. Kralisch
 RBIS - An Environmental Information System
- XY454 EGU2012-9942
C. Lussana, M. Ranci, and F. Uboldi
 A Quality-Control-Oriented Database for a Mesoscale Meteorological Observation Network
- XY455 EGU2012-10174
D. Gaitanaru, A. Priceputu, and C.R. Gogu
 Geospatial Data Management Platform for Urban Groundwater

ESSI2.10 – Earth science on Cloud, HPC and Grid – Orals

Convener: H. Schwichtenberg | Co-Conveners: P. Mazzetti, M. Petitdidier

Room: 25

Chairperson: n.n.

- 13:30–13:45 EGU2012-11142
S. Brewer and G. Sipos
 European grid services for global earth science
- 13:45–14:00 EGU2012-7192
E. Floros
 The StratusLab cloud distribution: Use-cases and support for scientific applications
- 14:00–14:15 EGU2012-14149
A. Parodi and the DRIHM Team
 DRIHM: Distributed Research Infrastructure for HydroMeteorology
- 14:15–14:30 EGU2012-12913
V. Anantharaj, B. Mayer, F. Wang, J. Hack, D. McKenna, and R. Hartman-Baker
 Scientific workflow and support for high resolution global climate modeling at the Oak Ridge Leadership Computing Facility
- 14:30–14:45 EGU2012-3989
E. Bonomi and B. Z. Heilmann
 A Cloud-Computing Service for Environmental Geophysics and Seismic Data Processing
- 14:45–15:00 EGU2012-4491
P. Löwe, J. Klump, and J. Thaler
 The FOSS GIS Workbench on the GFZ Load Sharing Facility compute cluster
- 15:00–15:15 EGU2012-8141
I. Epicoco, M. Mirto, S. Mocavero, and G. Aloisio
 A Distributed Infrastructure for Ensemble Experiments

ESSI2.10 – Earth science on Cloud, HPC and Grid – Posters

Convener: H. Schwichtenberg | Co-Conveners: P. Mazzetti, M. Petitdidier

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY456 EGU2012-11838
H. Schwichtenberg
 Earth Science community support in the EGI-Inspire Project
- XY457 EGU2012-12892
M. Petitdidier and H. Schwichtenberg
 Earth Science applications on Grid -advantages and limitations
- XY458 EGU2012-1634
M. Paepen
 Grid enabled Service Support Environment for multi-mission EO Processing
- XY459 EGU2012-12134
D. Rodila, V. Bacu, and D. Gorgan
 Geospatial Applications on Different Parallel and Distributed Systems in enviroGRIDS Project
- XY460 EGU2012-4585
K. I. Kholodkov, I. M. Aleshin, V. N. Koryagin, A. N. Shogin, and O. V. Sukhoroslov
 Implementation of probabilistic approach in solving inverse problems as a grid-backed web service.
- XY461 EGU2012-12128
V.C Manea, M. Manea, M. Pomeran, L. Besutiu, and L. Zlagnean
 High Performance Computing in Solid Earth Sciences

- XY462 EGU2012-11976
M. Schoeppner, W. Plastino, A. Budano, M. De Vincenzi, and F. Ruggieri
 Estimation of the time-dependent radioactive source-term from the Fukushima nuclear power plant accident using atmospheric transport modelling
- XY463 EGU2012-8381
I. Epicoco, S. Mocavero, A. Murli, and G. Aloisio
 NEMO Oceanic Model Optimization
- XY464 EGU2012-7530
W. Som de Cerff, H. Schwichtenberg, A. Gemünd, S. Claus, J. Reichwald, S. Denvil, P. Mazetti, and S. Nativi
 Services development toolkit for Open Research Data (Promarket)
- XY465 EGU2012-13008
B. Wilson, G. Manipon, and H. Hua
 Large-Scale, Parallel, Multi-Sensor Data Fusion in the Cloud
- XY466 EGU2012-10569
S. Kindermann, F. Schintke, and B. Fritzsche
 A Collaborative Data Management Infrastructure for Climate Data Analysis
- XY467 EGU2012-14370
J. Raciazek, M. Petitdidier, A. Gemuend, and H. Schwichtenberg
 Earth System Grid and EGI interoperability
- XY468 EGU2012-4835
P. J. Kershaw, M. Curtis, and E. Pechorro
 CEMS: Building a Cloud-Based Infrastructure to Support Climate and Environmental Data Services

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

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 Alps
- 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. Marzolff, 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

Friday, 27 April

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. Drögu?, 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.

