

EGU General Assembly 2011
Programme Group Programme
ESSI – Earth & Space Science Informatics

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Monday, 04 April

ESSI13/GI-17 – Open standards and distributed architectures for the Observation Web: from the sensors to the user (co-organized) – Orals

Convener: Denis Havlik | Co-Conveners: Walter Schmidt, Zoheir Sabeur, Stefano Nativi, Juan M. Tirado

Room: 2

Chairperson: Denis Havlik, Walter Schmidt, Zoheir Sabeur

08:30–08:45 EGU2011-5218

Alief Nugraha, Andri Hendriyana, and Rachmat Sule

Speeding Up CRS-Stack Computation Using GPGPU

08:45–09:00 EGU2011-5407

Simon Cox, Bruce Simons, and Gavin Walker

Adoption of earth science informatics standards: key factors

09:00–09:15 EGU2011-12419

Marcel Ritter, Werner Bengler, Frank Steinbacher, Markus Aufleger, Joseph Stoeckl, Donna Delparte, Mike Folk, and Quincey Koziol

Using HDF5 for Cross Disciplinary Data Archival and Highly Performing Processing of Multi-Variant Observational and Computational Data with Simple or Complex Topology

09:15–09:30 EGU2011-13533

Thanasis Papaioannou, Sofiane Sarni, Karl Aberer, Mathias Bavay, Michael Lehning, Silvia Simoni, and Marc Parlange

Automated Model-driven Simulation and Visualization of Field Sensor Data

09:30–09:45 EGU2011-12300

Zoheir Sabeur, Joachim Wächter, Andreas Küppers, and Kym Watson

Large Environmental Sensor Observation Data and Knowledge Base for Collaborative Decision-support in Crises

09:45–10:00 EGU2011-327

John van de Vegte, Maarten Plieger, Rob Roebeling, Jan Fokke Meirink, Paul de Valk, Robert van Versendaal, Ian van der Neut, Henk kalle, Jasper Spit, and Arthur Knopper

Data access to the MSG Cloud Physical Properties (MSG-CPP) products

Tuesday, 05 April

ESSI7 – Earth System Modeling: Strategies and Software – Posters

Convener: Reinhard Budich | Co-Conveners: Dan Lunt

Hall XL | Display Time 08:00–19:30

Author in Attendance: 15:30–17:00

Chairperson: n.n.

- XL159 EGU2011-3358
Sven Kralisch, Peter Krause, and Christian Fischer
JAMS - a Software Framework for Integrated Environmental Modelling
- XL160 EGU2011-5803
Paolo Mazzetti, Stefano Nativi, Mattia Santoro, and Gary Geller
The GEO Model Web Initiative for Environmental Model Access Interoperability
- XL161 EGU2011-9753
Oliver Schmitz, Derek Karssenbergh, Kor de Jong, and Jean-Luc de Kok
Constructing integrated models: a scheduler to execute coupled components
- XL162 EGU2011-8459
Sarah Callaghan, Mark Morgan, Eric Guilyardi, Sophie Valcke, Charlotte Pascoe, Bryan Lawrence and the METAFOR Project Team
Supporting the climate community by providing common metadata for climate modelling digital repositories: the METAFOR project.
- XL163 EGU2011-10324
Alessandro Spinuso, Luca Trani, Malcolm Atkinson, and Michelle Galea
Infrastructure for Data-Intensive Seismology: Cross-correlation of distributed seismic traces through the ADMIRE framework
- XL164 EGU2011-11152
Raffaele Guarino and Mirko Albani
LTDP/FIRST Earth Science User Requirements
- XL165 EGU2011-8307
Lars Hoffmann, Paul Gibbon, Ole Kirner, and Stefan Versick
Simulation Laboratories for Climate Sciences and Environmental Research
- XL166 EGU2011-9128
Arnaud Caubel, Yann Meurdesoif, Alexis Canevet, Marie-Alice Foujols, Olivier Marti, Sebastien Masson, and Sophie Valcke
Parallel optimization of IPSL climate model
- XL167 EGU2011-12320
Claudio Schifani, Rudy Rossetto, and Iacopo Borsi
Open Source GIS tools for Water Resources Management
- XL168 EGU2011-6341
Thomas Jung, Sergey Danilov, Kerstin Fieg, Wolfgang Hiller, Jens Schroeter, Dmitry Sidorenko, and Qiang Wang
Towards a coupled climate model with a finite-element sea ice-ocean representation
- XL169 EGU2011-7726
Jon Hill and the Applied Modelling and Computation Group Team
Fluidity - an open-source, next-generation, fluid dynamics framework

ESSI11 – Real Use of Standards and Technologies - Live Demonstrations – Orals

Convener: John van de Vegte | Co-Conveners: David Arctur

Room: 19

Chairperson: John van de Vegte

- 15:30–15:45 EGU2011-1930
Maarten Plieger
Application of OGC standards at the Royal Netherlands Meteorological Institute (KNMI)
- 15:45–16:00 EGU2011-3453
David R. Maidment, Fernando Salas, **Enrico Boldrini**, Ben Domenico, and Stefano Nativi
Crossing the Digital Divide in the hydrology domain through standard based solutions
- 16:00–16:15 EGU2011-7896
Carlo Cipolloni, Loredana Battaglini, Valentina Campo, Roberta Carta, Maria Pia Congi, Daniela Delogu, Benedetto Porfidia, Mauro Roma, Renato Ventura, and Claudio Zonetti
The Portal of the Geological Survey of Italy: an example of interoperability architecture and services

- 16:15–16:30 EGU2011-2428
Jon Blower, Keith Haines, Alastair Gemmell, and Adit Santokhee
 ncWMS: a Web Map Service for the visualization of multidimensional gridded environmental data
- 16:30–16:45 EGU2011-9228
Gennadii Donchyts, Fedor Baart, and Bert Jagers
 The Shift to Open Standards in Integrated Environmental Modeling
- 16:45–17:00 EGU2011-13886
Wim Hugo
 A South African Platform for Data Systems: Practical Application of Standards

ESSI16 – Service-Oriented Architecture solutions for Earth Science applications and Long Term Data Access – Orals

Convener: Stefano Nativi | Co-Conveners: Pier Giorgio Marchetti, Ben Domenico, Wim Som de Cerff, Jacobs Clifford

Room: 19

Chairperson: Stefano Nativi, Wim J. Som de Cerff, Ben Domenico

- 10:30–10:45 EGU2011-4523
Bastian Schaeffer
 Web-Based Geoprocessing: Future Directions
- 10:45–11:00 EGU2011-3141
 Max Craglia, **Paolo Mazzetti**, Lorenzino Vaccari, and Stefano Nativi
 EuroGEOSS: The Initial Operating Capacity
- 11:00–11:15 EGU2011-11469
Denisa Rodila, Victor Bacu, Vlad Ardelean, Claudia Borlea, and Dorian Gorgan
 Geospatial Web Services Gridification in enviroGRIDS
- 11:15–11:30 EGU2011-11974
Rainer Haener, Joachim Waechter, Martin Hammitzsch, Matthias Lentholt, Zoheir Sabeur, and Stefan Poslad
 Event-Driven Service Oriented Architecture Foundations for Industrial and Natural Crises Management Scenarios
- 11:30–11:45 EGU2011-4498
Peter Baumann
 Towards Modular Service Definitions for Sensor, Simulation, and Statistics Data
- 11:45–12:00 EGU2011-4309
Lorenzo Bigagli, Mattia Santoro, Enrico Boldrini, and Fabrizio Papeschi
 A Brokering Solution for Geospatial Resources Retrieval

ESSI16 – Service-Oriented Architecture solutions for Earth Science applications and Long Term Data Access –

Posters

Convener: Stefano Nativi | Co-Conveners: Pier Giorgio Marchetti, Ben Domenico, Wim Som de Cerff, Jacobs Clifford

Hall XL | Display Time 08:00–19:30

Author in Attendance: 15:30–17:00

Chairperson: n.n.

- XL170 EGU2011-3532
Mattia Santoro, Gregoire Dubois, Jon Olav Skoien, Stephen Peedell, Cristiano Fugazza, Stefano Nativi, and Massimo Craglia
 Progress towards the setting up of a multidisciplinary infrastructure for ecological modeling with eHabitat
- XL171 EGU2011-13439
Kerstin Lehnert, Suzanne Carbotte, Vicki Ferrini, William Ryan, Robert Arko, and Sze-Ling Chan
 IEDA: Integrated Earth Data Applications to Support Access, Attribution, Analysis, and Preservation of Observational Data from the Ocean, Earth, and Polar Sciences
- XL172 EGU2011-10656
Linus Kamb, Laurent Frobert, Alessandro Spinuso, Luca Trani, Remy Bossu, and Torild van Eck
 NERIES Services Architecture
- XL173 EGU2011-4797
Estanislao Gonzalez, Gavin M. Bell, Luca Cinquini, Philip Kershaw, Stephan Kindermann, Michael Lautenschlager, Stephen Pascoe, and Dean Williams
 ESGF Node - A data infrastructure for data-intensive science
- XL174 EGU2011-10641
Thomas Klein, Barry Broman, Håkan Grudd, Jan Svensson, Martin Hultman, Zhengjian Zhao, Britt Frankenberg, and Joakim Langner
 SND-KM: Building the Swedish resource for climate and environmental data

- XL175 EGU2011-13050
Richard Jones, Dan Cornford, Christoph Stasch, John Paul Gosling, and Jill Johnson
The reality of deploying models in service oriented architectures
- XL176 EGU2011-3356
Enrico Boldrini, Fabrizio Papeschi, Alessio Baldini, and Valerio Angelini
Extensions to the GI-cat geospatial discovery broker
- XL177 EGU2011-9620
Brian Wilson, Rahul Ramachandran, and Sunil Movva
Lightweight Advertising and Scalable Discovery of Earth Science Datasets, Services, Workflows and Events Using Broadcast Feeds
- XL178 EGU2011-4026
Ivan Marchesini, Lorenzo Amato, Vinicio Balducci, Dimitri Dello Buono, Giuseppe La Scaleia, Donato Maio, Mauro Rossi, Gabriele Tonelli, and Fausto Guzzetti
A spatial data infrastructure to disseminate information on geo-hydrological hazards and risk in Italy
- XL179 EGU2011-1270
Masoud Abdolahi
A Study of the Effect of Sprinkler Irrigation on the Soil Temperature Regime"Case study: Botany Park of Tehran University
- XL180 EGU2011-8405
Samantha Royston, Jonathan Lawry, and Kevin Horsburgh
Application of a linguistic decision tree model to sea level problems
- XL181 EGU2011-12098
Dmitri Chatskikh, Wilfried Mirschel, and Kristof Van Oost
Towards comprehensive tool support for dynamic GAEM (Geomorphic-AgroEcosystem Modelling) data management
- XL182 EGU2011-7113
Francesco D'Amore, Sergio Cinnirella, and Nicola Pirrone
Architecture solution for air quality management through a dedicated SDI
- XL183 EGU2011-9072
Albrecht Schmidt, Erwan Tréguier, Frédéric Schmidt, Saïd Moussaoui, and Nicolas Dobigeon
Non-negative Matrix Factorisation in Context

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

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

Room: 2

Chairperson: Rosa Lasaponara, Andrea Camia

- 13:30–13:45 EGU2011-14159
Martin Wooster, Patrick Freeborn, Ronan Paugam, Gareth Roberts, Weidong Xu, Stefania Amici, and Tim Lynham
Spectral Radiant Energy Emission Measurements of Vegetation Fires
- 13:45–14:00 EGU2011-13790
Daniela Stroppiana, Mirco Boschetti, **Pietro Alessandro Brivio**, and Luigi Boschetti
Mapping Areas Affected by Fires across Natural and Agricultural Ecosystems in Europe from Spectral Indices
- 14:00–14:15 EGU2011-12353
Wilfrid Schroeder, **Louis Giglio**, Ivan Csiszar, Evan Ellicott, and Christopher Justice
A look at 10 years of MODIS active fire data and the prospects for VIIRS
- 14:15–14:30 EGU2011-12734
Panagiota Papakosta, Sebastian Andreas Neuefeind, Steve Schaefer, and Daniel Straub
A probabilistic model of the influence of weather, geography and humans on wildfire occurrences in the Mediterranean
- 14:30–14:45 EGU2011-4945
Brian Lamb, **Natalie Wagenbrenner**, Jason Forthofer, Bret Butler, Kara Yedinak, Patrick O'Keefe, Dennis Finn, and Pete Robichaud
Development and evaluation of high-resolution wind simulation tools to improve fire weather forecasts
- 14:45–15:00 EGU2011-9162
Lasse Loeffe, Francisco Lloret, and Anselm Rodrigo
Non-linear response of European fire size to weather conditions

Chairperson: Mario Pereira, Ricardo Trigo

- 15:30–15:45 EGU2011-14158
Gernot Ruecker, Dieter Oertel, Eckehard Lorenz, Winfried Halle, Thomas Terzibaschian, Anja Hoffmann, and Joachim Tiemann
 High Resolution Active Fire Monitoring for Global Change Analysis by FireBIRD
- 15:45–16:00 EGU2011-11187
Clemens Wastl, Christian Schunk, and Annette Menzel
 Climate change impact on meteorological forest fire danger in the Alpine Space
- 16:00–16:15 EGU2011-10500
Guillermo Rein
 Climate Feedbacks on Smouldering Earth: Enchantment of Moisture deficit and self-heating of fossil and pre-fossil soils
- 16:15–16:30 EGU2011-12378
 Stefan Doerr and **Richard Shakesby**
 Do common fire-severity estimation parameters really tell us much about landscape susceptibility to enhanced hydrogeomorphological response?
- 16:30–16:45 EGU2011-9078
Richard Dupont, Brad Pierce, John Worden, Johnathan Hair, Marta Fenn, Paul Hamer, Murali Natarajan and the ARCTAS Team
 Reconstructing ozone chemistry from Asian wild fires using models, satellite and aircraft measurements during the ARCTAS campaign
- 16:45–17:00 EGU2011-13996
Andrea Camia, Jesús San-Miguel-Ayanz, Lara Vilar del Hoyo, and Tracy Durrant Houston
 Spatial and temporal patterns of large forest fires in Europe

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

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

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

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

- XY584 EGU2011-341
Ioannis Athanasiou, Dionisios Kalivas, George P. Petropoulos, and Vasiliki Kollias
 An intercomparison of burnt area estimates from key operational products: results from the analysis of Greek wildland fires
- XY585 EGU2011-14153
Facundo Oddi and Luciana Ghermandi
 Spatial structure of Fabiana imbricata shrublands in the NW Patagonia
- XY586 EGU2011-1797
Silvia Merino-de-Miguel, Margarita Huesca, Alberto Setzer, Fabiano Morelli, Silvia de Jesús, and Federico González-Alonso
 Spatial-temporal comparison between MODIS Burned Area and Thermal Anomalies Products during 2008 in Brazil
- XY587 EGU2011-2726
 Julian Campo, **Vicente Andreu**, Eugenia Gimeno-García, Oscar Gonzalez-Pelayo, and Jose Luis Rubio
 Medium term changes in the structure and organic matter content of a Mediterranean Rendzic Leptosol affected by repeated fires of different severities
- XY588 EGU2011-6388
Fortunato De Santis, Rosa Lasaponara, Antonio Lanorte, and Tiziana Montesano
 Satellite based estimation of Aerosols from forest fire
- XY589 EGU2011-6396
Emilio Chuvieco
 Monitoring global burned area trends from European satellites: the ESA FIRE CCI Project
- XY590 EGU2011-8762
Antonio Lanorte, Tiziana Montesano, Fortunato De Santis, and Rosa Lasaponara
 Estimating burn severity and vegetation recovery using satellite MODIS data
- XY591 EGU2011-6801
Fortunato De Santis, Rosa Lasaponara, and Antonio Lanorte
 Integrating Remote Sensing, Topographic Factors and Outputs from Meteorological Models for Real-Time Forest Fire Danger Estimation
- XY592 EGU2011-7900
Fortunato De Santis, Rosa Lasaponara, and Antonio Lanorte
 Estimating effectiveness of spectral index for burned area mapping

- XY593 EGU2011-8799
Antonio Lanorte
A comprehensive overview on the use of satellite remote sensing to characterize and map fuel types
- XY594 EGU2011-8208
Antonio Lanorte, Tiziana Montesano, Fortunato De Santis, and Rosa Lasaponara
Analysis of persistence in time series of VEGETATION data for monitoring burned areas
- XY595 EGU2011-9909
Antonio Lanorte, Maria Danese, Beniamino Murgante, and Rosa Lasaponara
Cluster Analysis for burned areas detection
- XY596 EGU2011-12706
Malik Amraoui, Carlos C.C. DaCamara, Teresa J. Calado, and Sofia L. Ermida
Maps of risk of fire over Mediterranean Europe
- XY597 EGU2011-9936
Natalie Arndt, Harald Vacik, Alexander Arpaci, and Hartmut Gossow
Mapping areas susceptible to forest fire along the wildland urban interface in selected regions of the mountain forests in Austria
- XY598 EGU2011-12615
Malik Amraoui, Margarida L.R. Liberato, Teresa J. Calado, Carlos C.C. DaCamara, Luis Pinto Coelho, and Ricardo M. Trigo
The impact of meteorological conditions on fire activity in Mediterranean Europe
- XY599 EGU2011-13369
Stephan Seeling, Sascha Nink, and Henning Buddenbaum
Supporting pre-fire planning and canopy fuel parameters estimation employing a forest information system and remote sensing data
- XY600 EGU2011-14001
Mário Pereira, Liliana Caramelo, and Ricardo Costa
Fire regime in Portugal: exploratory, trend and variability analysis
- XY601 EGU2011-13993
Luís Carvalheiro, Guilherme Chagas, Maria Orgaz, **Mário Pereira**, Liliana Caramelo, and Yoshiro Yamazaki
Modelling forest fire weather risk in Continental Portugal
- XY602 EGU2011-13989
Pedro Sousa, Ricardo Trigo, **Mário Pereira**, Célia Gouveia, and Liliana Caramelo
Modelling forest fire weather risk in Continental Portugal
- XY603 EGU2011-13987
Pedro Sousa, Ricardo Trigo, **Mário Pereira**, Célia Gouveia, and Liliana Caramelo
Regionalising Iberia fire regimes and links with large-scale meteorological variability
- XY604 EGU2011-13931
Nicolas Mari, **Giovanni Laneve**, Enrico Cadau, and Pablo Marzialetti
Fire damage assessment in Sardinia: the use of ALOS/PALSAR data for the management post fire affects
- XY605 EGU2011-1494
Carmen D. Vega Orozco, Mikhaïl Kanevski, Marj Tonini, and Marco Conedera
Geostatistics for Forest Fires: from variography to geosimulations
- XY606 EGU2011-6707
Emmanuel Da Ponte-Canova, Cristina Vega-Garcia, and Jesus Peman
On the relationship between wildfires and reforestations in Spain from 1988 to 2008
- XY607 EGU2011-9659
hendri hendri and the Timothy LOH 2),?Ram S.TIWAREE 2) and Khiam Jin LEE 2)?Han Soo LEE 3), and Takao YAMASHITA 3) Team
Towards an Integrated Fire Management Framework using Space-based Application in Asia and The Pacific
- XY608 EGU2011-9769
Christian Schunk, Bernhard Ruth, Michael Leuchner, Clemens Wastl, and Annette Menzel
Methods for the automated in-situ measurement of dead fine fuel moisture dynamics
- XY609 EGU2011-9470
Chris Eastaugh, Alexander Arpaci, and Harald Vacik
Methods of comparing fire danger indices
- XY610 EGU2011-6490
Stephen Clandillon and the Hervé Yesou (1) Team
GMES Emergency Response - Fire mapping experience within EO-based Rapid Mapping
- XY611 EGU2011-11992
Paolo Fiorucci, Luca Molini, and Antonio Parodi
Spatio-temporal relative humidity patterns and extreme wildfires in the Mediterranean

GM2.5 – Simplicity and complexity in evolution of coupled geomorphologic systems: concepts, models and applications (co-listed) – Orals

Convener: Margreth Keiler | Co-Conveners: Johnny Douvinet, Derek Karssenbergh, Arnaud Temme

Room: 21

Chairperson: Margreth Keiler & Arnaud Temme

13:30–13:45 EGU2011-10287

Kirsten v. Elverfeldt

After all, what does "far from equilibrium" mean?

13:45–14:00 EGU2011-4042

Thomas Euler

Self-organisation of fluvial obstacle marks

14:00–14:15 EGU2011-10714

Eric Masson

Toward a new system approach of catchment complexity

14:15–14:30 EGU2011-4371

Greg Hancock

Numerically modelling landscape evolution - how good can we get the predictions?

14:30–14:45 EGU2011-10614

Liran Goren and Sean Willett

Landscape characterization with DAC (DIVIDE AND CAPTURE), a new surface evolution model

14:45–15:00 EGU2011-13012

Sebastien Salvador-Blanes, Budiman Minasny, and Alex B. McBratney

Modelling soil formation at the profile scale

Chairperson: Johnny Douvinet & Derek Karssenberg

15:30–15:45 EGU2011-2092

Jantiene Baartman, Wouter Van Gorp, Arnaud J.A.M. Temme, and Jeroen M. Schoorl

Modelling sediment dynamics due to hillslope-river interactions: incorporating fluvial behaviour in landscape evolution model LAPSUS

15:45–16:00 EGU2011-2247

Lieven Claessens, Jeroen M. Schoorl, Peter H. Verburg, Lieke Geraedts, and Tom Veldkamp

Modelling interactions and feedback mechanisms between land use change and landscape processes

16:00–16:15 EGU2011-4064

Jose Munoz-Rojas, Javier de Pedraza Gilsanz, and Rosa M Carrasco González

Contesting the role of regional geomorphology in spatial planning through non-euclidian geometries and fuzzy clustering methodologies.

16:15–17:00 **Discussion and Poster Introduction****GM2.5 – Simplicity and complexity in evolution of coupled geomorphologic systems: concepts, models and applications (co-listed) – Posters**

Convener: Margreth Keiler | Co-Conveners: Johnny Douvinet, Derek Karssenberg, Arnaud Temme

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Derek Karssenberg & Margreth Keiler

A106 EGU2011-3034

Mike Kirkby

Langbein and Schumm revisited

A107 EGU2011-4019

David Dunkerley

Widespread Hortonian overland flow in deserts: is the classical argument applicable in the drylands of western New South Wales, Australia?

A108 EGU2011-1611

Diethard Sanders

Hitherto undescribed pattern of rock cliff/talus development: The 'breach concept'.

A109 EGU2011-12023

Margreth Keiler and Kirsten von Elverfeldt

Can we predict and control complex, self-organized systems?

A110 EGU2011-8181

Dave Favis-Mortlock

Early warning of emergent connectivity on an eroding hillslope

A111 EGU2011-12231

Derek Karssenberg

Early-warning signals in ecogeomorphology: the example of a hillslope system

A112 EGU2011-7139

Julia Eisl and Christian Scheidl

Flow process identification in torrent catchments by geomorphological parameters in the Austrian Alps

- A113 EGU2011-10442
Victor Clamote, Jose Nobre, and Ana Gomes
 Classification and study of geomorphologic forms present in Serra das Mesas (Sabugal, Portugal). A first approach to identify the processes associated.
- A114 EGU2011-141
Inga Voropaeva
 The structure and specific features of formation of floodplain wetlands in Amur Region
- A115 EGU2011-7683
Johnny Douvinet, Cyril Fleurant, Daniel Delahaye, Sebastien Caillaud, and Vincent Viel
 Cellular Automata and Agent-Based Models in response to different environmental problems: a review of French research over the last ten years
- A116 EGU2011-8836
Luca Ziliani, Nicola Surian, and Tom Coulthard
 Cellular automata modelling of future channel changes in a large gravel-bed river
- A117 EGU2011-10282
Arnaud Temme
 Form-process relations versus multi-process landscape evolution models
- A118 EGU2011-10271
Arnaud Temme, Jeroen Schoorl, and Lieven Claessens
 Strategies for the set-up of a multi-process landscape evolution model.
- A119 EGU2011-3277
Christopher Hackney, Prof. Stephen Darby, and Dr. Julian Leyland
 Modelling the effects of climate change and sea-level rise on the evolution of incised coastal gullies.
- A120 EGU2011-2100
 Domenico Capolongo, **Alberto Refice**, and Emanuele Giachetta
 Investigating valley spacing dynamics in linear mountain fronts through terrain numerical modeling
- A121 EGU2011-880
Tom Coulthard, Greg Hancock, and John Lowry
 Using a downscaled landscape evolution model to model plot scale soil erosion
- A122 EGU2011-12499
Niladri Gupta, Peter M. Atkinson, and Paul A. Carling
 A spatially distributed probabilistic model for forecasting river planform change of an alluvial mega-river
- A123 EGU2011-9598
Garry Willgoose and Greg Hancock
 Unique Challenges in Modelling Post-mining Landforms Using Landform Evolution Models
- A124 EGU2011-1304
 Jan Nyssen, Dominiek Vermeersch, Stijn Diependaele, Jo Palmers, **Matthias Vanmaercke**, and Jean Poesen
 Geomorphic processes on coal tips in Belgium
- A125 EGU2011-10467
Yulia Blinova and Andrey Bredikhin
 Assessment of geomorphic risks and attractiveness for recreational purposes

Wednesday, 06 April

ESSI1/AS4.17/CL4.8 – International Collaboration and Integration Strategies for Climate and other Geosciences Informatics (co-organized) – Orals

Convener: David Arctur | Co-Conveners: Monique Petitdidier, Bryan Lawrence, Sandro Fiore, Mohan Ramamurthy

Room: 2

Chairperson: n.n.

- 15:30–15:45 EGU2011-1218
Aryan van Engelen, Albert Klein Tank, Gerard van der Schrier, **Else van den Besselaar**, Conny Schiks, and Tanya Prozny
What's new in the European Climate Assessment & Dataset (ECA&D)?
- 15:45–16:00 EGU2011-13744
Glenn Rutledge, Dean Williams, Gilbert Compo, Suruanjana Saha, Cecelia Deluca, Jay Hnilo, and **Estanislao Gonzalez**
NOAA's National Climate Model Portal and the Reanalysis.org Project
- 16:00–16:15 EGU2011-8985
Misha Krassovski, Tom Boden, Bai Yang, and Barbara Jackson
AmeriFlux Site and Data Exploration System
- 16:15–16:30 EGU2011-2095
Konstantinos Kourtidis, Aristeidis Georgoulas, Evangelos Kosmidis, Fanis Despotakis, and Panayiotis Symeonidis
AMFIC - a web data base for hosting and easy retrieval of atmospheric data from satellites
- 16:30–16:45 EGU2011-2213
Raymond Sluiter
Spatial interpolation and dissemination of climate variables using GIS and OGC web services
- 16:45–17:00 EGU2011-3096
Andrew Riddick and Holger Kessler
The Open Environmental Modelling Platform concept - an approach to information fusion in geoscience and environmental modelling

ESSI13/GI-17 – Open standards and distributed architectures for the Observation Web: from the sensors to the user (co-organized) – Orals

Convener: Denis Havlik | Co-Conveners: Walter Schmidt, Zoheir Sabeur, Stefano Nativi, Juan M. Tirado

Room: 19

Chairperson: Juan M. Tirado, Stefano Nativi

- 10:30–10:45 EGU2011-4307
Lorenzo Bigagli, Stefano Nativi, Massimo Argenti, and Vincenzo Giannini
Sensor Web Application to Transport Infrastructures Monitoring
- 10:45–11:00 EGU2011-8689
Sven Schade, Paolo Mazzetti, Zoheir Sabeur, Denis Havlik, **Thomas Usländer**, Arne Berre, and Jose Lorenzo Mon
Towards a Multi-Style Service-Oriented Architecture for Earth Observations
- 11:00–11:15 EGU2011-12906
Mohan Ramamurthy, Tom Yoksas, Steve Emmerson, and Jeff Weber
Unidata: a community-driven facility for distributing real-time meteorological data
- 11:15–11:30 EGU2011-13469
Peter Taylor, Andrew Terhorst, and Simon Cox
RESTful Services for Sensor Data
- 11:30–11:45 EGU2011-13512
Denis Havlik
Environmental Application Scenarios for the Future Internet
- 11:45–12:00 EGU2011-417
Anton Bashev and **Denis Zhilin**
Open Geoscience Database for Geoscience Education

ESSI15 – Collaborative environments and semantic interoperability – Orals

Convener: Peter Fox | Co-Conveners: Sandro Fiore, PAOLO DIVIACCO, Bruce Wright, Jon Blower

Room: 19

Chairperson: Sandro Fiore

- 13:30–13:45 EGU2011-6013
Dominic Lowe and Simon Cox
 An extensible model for describing real world properties in observational contexts.
- 13:45–14:00 EGU2011-14052
Clemens Eisank, Lucian Dr?gu?, and Thomas Blaschke
 Towards semantic interoperability in digital geomorphological mapping
- 14:00–14:15 EGU2011-5963
Mattia Santoro, Paolo Mazzetti, Cristiano Fugazza, Stefano Nativi, and Massimo Craglia
 Enhancing Discovery Capabilities of SDIs with Semantic Queries
- 14:15–14:30 EGU2011-11702
Bernd Ritschel, Sabine Pfeiffer, and Björn Kopischke
 Geoscience use cases and the design of the ISDC Ontology
- 14:30–14:45 EGU2011-7664
 Andrea Leone, Celine Dondeynaz, Paolo Mainardi, Marco Giacomassi, **Cesar Carmona-Moreno**, and Daoyi Chen
 A Web-based knowledge management platform for practitioners in the water sector: AquaKnow.net
- 14:45–15:00 EGU2011-5831
Jan Willem Noteboom
 Effective metadata management of sensor networks using semantic wiki technology
- Chairperson: Jon Blower
- 15:30–15:45 EGU2011-12314
Steve Liang, Shawn Chen, Alec Huang, Leah Li, Rohana Rezel, and David Chang
 GeoCENS: Capturing the Long Tail of the Sensor Web
- 15:45–16:00 EGU2011-9516
Janet Fredericks
 Evolution of Sensor-Based Data Services for Collaborative Research
- 16:00–16:15 EGU2011-10534
David Arctur, Panagiotis (Peter) Vretanos, and Jeff Harrison
 Enabling collaborative editing with synchronization of distributed geospatial databases
- 16:15–16:30 EGU2011-11217
Andrew Milsted, Jeremy Frey, Jon Blower, and Adit Santokhee
 BlogMyData: A Virtual Research Environment for collaborative visualization of environmental data
- 16:30–16:45 EGU2011-8160
Bruce Wright and Philip Brohan
 Met Office exploitation of user-provided content
- 16:45–17:00 EGU2011-6362
Aidan Green
 A new user-generated weather observations website for the United Kingdom.

ESSI16 – Service-Oriented Architecture solutions for Earth Science applications and Long Term Data Access – Orals

Convener: Stefano Nativi | Co-Conveners: Pier Giorgio Marchetti, Ben Domenico, Wim Som de Cerff, Jacobs Clifford

Room: 2

Chairperson: n.n.

- 13:30–13:45 EGU2011-1388
Clifford Jacobs
 The Changing Research Data Paradigm in the United States of America
- 13:45–14:00 EGU2011-5587
Frank Toussaint, Peter Drakenberg, Heinke Höck, Stephan Kindermann, Michael Lautenschlager, Hans Luthardt, Martina Stockhause, and Hannes Thiemann
 Preservation and Long Term Access of Data at the World Data Centre for Climate
- 14:00–14:15 EGU2011-7854
Ruben F. Perez, Oscar Perez, Oscar Portela, Rosemarie Leone, Mirko Albani, and Vincenzo Beruti
 Technologies survey and analysis of current long term archiving systems in the context of Earth Observation
- 14:15–14:30 EGU2011-13413
 Eric Rozell, Peter Fox, Andrew Maffei, and **Stephan Zednik**
 A Framework for Earth Science Search Interface Development
- 14:30–14:45 EGU2011-9509
John S. Hughes, Daniel Crichton, Sean Hardman, Ronald Joyner, Chris Mattmann, Paul Ramirez, and Sean Kelly
 An Ontology Driven Information Architecture for Interoperable Disparate Data Sources

14:45–15:00 EGU2011-9649

Jonathan Yu, Peter Taylor, Simon Cox, and Gavin Walker
Validating water resources described in WaterML 2.0

Thursday, 07 April

ESSI1/AS4.17/CL4.8 – International Collaboration and Integration Strategies for Climate and other Geosciences Informatics (co-organized) – Posters

Convener: David Arctur | Co-Conveners: Monique Petitdidier, Bryan Lawrence, Sandro Fiore, Mohan Ramamurthy

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: David Arctur, Mauro Messerotti

- XL168 EGU2011-1599
Lisa Raymond, **Cynthia Chandler**, Roy Lowry, Ed Urban, Gwenaëlle Moncoiffe, Peter Pissierssens, and Cathy Norton
Data Publication: An Example of Data Repository and Library Cooperation
- XL169 EGU2011-12341
Andrew Maffei, Cynthia Chandler, Laura Stolp, Janet Fredericks, and Nancy Galbraith
Rolling Deck to Repository (R2R): A Controlled Vocabulary and Ontology Development Effort for Oceanographic Research Cruise Event Logging
- XL170 EGU2011-13450
Sarah Cornell and Cat Downy
Building a useful and usable data legacy from major interdisciplinary research programmes: the QUEST experience.
- XL171 EGU2011-3946
Jay Pearlman, Max Craglia, Francis Bertrand, Gregoire Dubois, Steffen Fritz, Gerimantas Gaigalas, **Stefano Nativi**, and Stefan Niemeyer
Interdisciplinary Approaches for Decision-making Information Across Forestry, Biodiversity and Drought
- XL172 EGU2011-2653
Giovanni Lapenta and Soteria Consortium
Progress within the SOTERIA FP7 EC-funded Consortium.
- XL173 EGU2011-9993
André Csillaghy, Robert Bentley, Abouadarham Jean, and Helio Team
The architecture of the e-Infrastructure HELIO
- XL174 EGU2011-13723
Jean Abouadarham, Peter Gallagher, Robert D. Bentley, Andre' Csillaghy, and The HELIO Team
A tool for Space weather science: The Heliophysics Features Catalogue
- XL175 EGU2011-13962
Mauro Messerotti, Alessandro Marassi, Andrej Santin, Valentina Alberti, Antonio Volpicelli, Chris Perry, Philip Richards, Robert D. Bentley, and The HELIO Team
The Heliophysics Event Catalogue (HEC): an advanced tool of the Heliophysics Integrated Observatory (HELIO) for space weather event characterisation
- XL176 EGU2011-13727
Hanna Sathiapal and The HELIO Team
HELIO-lab - From Backyard Observations to Heliospheric Science
- XL177 EGU2011-13939
Massimo Ramella and Giulia Iafrate
The astronomer's Virtual Observatory as a tool for students, teachers and amateur astronomers
- XL178 EGU2011-2488
Delia-Georgeta Dumitras, Cristina Ghinet, Stefan Marincea, Oana Gabriela Sebe, and Raluca-Mihaela Maftei
From the geological museum collections to teaching Earth Sciences
- XL179 EGU2011-314
Denis Zhilin
Neogeoscience and scientific education
- XL180 EGU2011-14057
Mauro Messerotti
Dissemination, education and public outreach: a roadmap for meteorology of space
- XL181 EGU2011-13726
Ann Jabro and Jay D. Jabro
Education and communication plans to address community misunderstanding of the Soil Vapor Extraction technique
- XL182 EGU2011-4502
Olga Malandraki and the SEPServer Team
Data Services and Analysis Tools for Solar Energetic Particle Events and Related Electromagnetic Emissions - SEPServer

- XL183 EGU2011-11214
Antonio Guerrero, Consuelo Cid, Elena Saiz, Yolanda Cerrato, and Jesus Aguado
Space Weather Service developed at UAH
- XL184 EGU2011-12445
Joerg-Micha Jahn and Heather A. Elliott
Predicting Space Weather With Pattern Recognition
- XL185 EGU2011-6086
Wim Som de Cerff, Maarten Plieger, Ge Verver, and Else van den Besselaar
The EURO4M web based Climate Information Bulletin environment
- XL186 EGU2011-6409
Sandro Fiore and Giovanni Aloisio
Metadata harvesting, map-enabled data access and distributed monitoring in the Climate-G testbed
- XL187 EGU2011-9387
Kevin Marsh
Climate Data from the BADC
- XL188 EGU2011-10391
Lizzie Froude, Kevin Hodges, and Robert Gurney
Storm Prediction Information for Decision Making at Sea

ESSI2 – Informatics in Oceanography – Orals

Convener: Giuseppe M.R. Manzella | Co-Conveners: Dick M. A. Schaap, Sissy Iona

Room: 19

Chairperson: Giuseppe Manzella

- 10:30–10:45 EGU2011-1802
Dick Schaap and SeaDataNet Consortium
SeaDataNet: Development of a Pan-European infrastructure for ocean and marine data management
- 10:45–11:00 EGU2011-2098
Stefano Salon, Giorgio Bolzon, Anna Teruzzi, Paolo Lazzari, Simone Campagna, and Federico Ficarelli
E-Infrastructures for the operational forecasts of the biogeochemical state of Mediterranean Sea: experiences from DORII and MyOcean projects
- 11:00–11:15 EGU2011-3529
Helen Graves, Dick Schaap and the Geo-Seas Consortium Partners Team
Geo-Seas - building a unified e-infrastructure for marine geoscientific data infrastructure in Europe
- 11:15–11:30 EGU2011-3939
Stephen Miller, Helen Graves, Suzanne Carbotte, Robert Arko, Cynthia Chandler, Dru Clark, Aaron Sweeney, and Karen Stocks
Rolling Deck to Repository: Opportunities for US-EU Collaboration
- 11:30–11:45 EGU2011-6797
Cristina Tronconi and Vega Forneris
Realization of European interoperability in Ocean Science via the CNR-ISAC informatic infrastructure, based upon open-source technology implemented on a Grid environment.
- 11:45–12:00 EGU2011-11957
David Mills, Kathryn Keeble, Rodney Forster, Simon Keeble, Stephen Malcolm, and Jon Rees
The EMECO Marine Data Tool - an 'on-line' data integration and synthesis information system for marine environmental assessments

ESSI2 – Informatics in Oceanography – Posters

Convener: Giuseppe M.R. Manzella | Co-Conveners: Dick M. A. Schaap, Sissy Iona

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Dick Schaap

- XL189 EGU2011-1803
Marco Gambetta and **Giuseppe M.R. Manzella**
Implementation of quality control procedures by means of
- XL190 EGU2011-1827
Roger Proctor
Australian initiatives in marine information infrastructure
- XL191 EGU2011-8578
Cynthia Chandler, Molly Allison, Robert Groman, Patrick West, Stephan Zednick, and Andrew Maffei
Developing an Ontology for Ocean Biogeochemistry Data

- XL192 EGU2011-10279
Matteo Vinci, **Alberto Brosich**, Alessandro Altenburger, Fabio Brunetti, Alessandra Giorgetti, Stefano Kuchler, and Elena Partescano
Real-time system to automatic harvesting of several marine data types, granting interoperability and resilience, using ISO and OGC standards
- XL193 EGU2011-10647
Angelos Lykiardopoulos, Gilbert Maudire, Konstantinos Kalkavouras, Valérie Harscoat, Marc Coriou, and Athanasia Iona
Monitoring large computer networks and distributed services - The SeaDataNet Project Experience
- XL194 EGU2011-9671
Md Sumon Shahriar, Paulo De Souza, and Greg Timms
Smart Information Retrieval for Marine Sensor Data
- XL195 EGU2011-11549
Charles Troupin, Jean-Marie Beckers, Damien Sirjacobs, Michel Rixen, Pierre Brasseur, Jean-Michel Brankart, Alexander Barth, Aida Alvera-Azcárate, Arthur Capet, Mohamed Ouberdous and the DIVA Team
Advanced Data Interpolating Variational Analysis. Application to climatological data.
- XL196 EGU2011-11545
Pekka Alenius, Riikka Hietala, Kimmo Tikka, Seppo Kaitala, Sanna Kujansuu, Riitta Olsonen, Ilkka Priha, and Mikko Virkkunen
Quality comes first in system design
- XL197 EGU2011-13326
Charles Troupin, Jean-Marie Beckers, Mohamed Ouberdous, Alexander Barth, Marie-Eve Toussaint and the SeaDataNet Team
Overview and progresses of the SeaDataNet regional climatologies
- XL198 EGU2011-10889
Maureen Pagnani, Richard Lampitt, Kate Larkin, Sue Hartman, Jon Campbell, Athanasios Gkritzalis, Corinne Pebody, Henry Ruhl, David Billett, Veit Hühnerbach, Doug Masson, Svein Østerhus, Ingunn Skjelvan, Kostas Nittis, Vasilis Lykousis, Leonidas Perivoliotis, Dimitris Kassis, George Petihakis, Vanessa Cardin, Manuel Bensi, Fabio Brunetti, Alessandra Giorgetti, Roberto Bozzano, Sara Pensieri, Doug Wallace, Johannes Karstensen, Christian Berndt, Imants Priede, Anne Holford, Tomasz Niedzielski, Lee Hastie, Alan Jamieson, Laurent Coppola, Christian Tamburini, Dominique Lefèvre, Anne Robert, Sylvie Pouliquen, Thierry Carval, Sylvain Ghiron, Octavio Llinás-González, Andrés Cianca, Oscar Melicio, Carlos Santos, Anibal Medina, Pericles Silva, Ivanice Monteiro, Melchor González-Dávila, and Magdalena Santana-Casiano
The EuroSITES open ocean observatory network: the data managers' perspective

ESSI8 – Uncertainty in Environmental Data and Models – Orals

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

Room: 19

Chairperson: n.n.

- 13:30–13:45 EGU2011-13514
Sarah Cornell
Social perspectives on environmental risk and uncertainty
- 13:45–14:00 EGU2011-11580
Jon Olav Skøien, Grégoire Dubois, Phuong Truong, Dan Cornford, and Michael Shulz
Uncertainty propagation in assessing ecosystems similarities - an example application using eHabitat
- 14:00–14:15 EGU2011-5932
Kristin Vogel, Carsten Riggelsen, and Frank Scherbaum
Learning Ground Motion Models from Data using Bayesian Networks
- 14:15–14:30 EGU2011-7767
Johan deHaan, Maarten Sneep, and Pepijn Veeffkind
Retrieval algorithms for TROPOMI - improving error estimates of retrieved quantities by using Optimal Estimation with explicit a priori data
- 14:30–14:45 EGU2011-1880
Lindsay Collins, Ken Carslaw, Graham Mann, Kirsty Pringle, and Dominick Spracklen
A systematic approach to computer model evaluation, using a global aerosol model
- 14:45–15:00 EGU2011-11001
Wouter Dorigo, Robert Parinussa, Klaus Scipal, Yi Liu, Richard de Jeu, and Wolfgang Wagner
Error characterisation of global active and passive microwave soil moisture data sets
- Chairperson: n.n.
- 15:30–15:45 EGU2011-9677
Heiko Mueller, Qing Liu, Quan Bai, Corne Kloppers, and Andrew Terhorst
Enabling Assessment and Propagation of Information Quality in the South Esk Hydrological Sensor Web

- 15:45–16:00 EGU2011-5384
Lucy Bastin, Matthew Williams, John Paul Gosling, Phuong Truong, Dan Cornford, Gerard Heuvelink, and Frederic Achard
 Web Based Expert Elicitation of Uncertainties in Environmental Model Inputs
- 16:00–16:15 EGU2011-8339
Judith Versteegen, Floor van der Hilst, Derek Karssenberg, and André Faaij
 Communicating Uncertainty in Spatial Decision Support Systems - a Case Study of Bioenergy-Crop Potentials in Mozambique
- 16:15–16:30 EGU2011-3230
Didier G. Leibovici, Amir Pourabdollah, and Mike Jackson
 Meta-propagation of Uncertainties for Scientific Workflow Quality Management in Interoperable Spatial Data Infrastructures
- 16:30–16:45 EGU2011-10149
Siegbert Kunz and Kym Watson
 A Spatial Information Infrastructure for linking environmental and health data: the approach to information fusion including uncertainty handling in the EO2HEAVEN project
- 16:45–17:00 EGU2011-5554
Lydia E. Gerharz, Benjamin Proß, Christoph Stasch, and Edzer Pebesma
 A Web-based Uncertainty-enabled Information System for Urban Air Quality Assessment

ESSI8 – Uncertainty in Environmental Data and Models – Posters

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

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Dan Cornford

- XL199 EGU2011-769
Euan Macrae, Clare Bond, and Zoe Shipton
 Quantification of uncertainty in geoscience interpretation: a statistical analysis of the factors that affect interpretational ability
- XL200 EGU2011-2965
Antonia K. Runge, Frank Scherbaum, and Carsten Riggelsen
 Quantification of expert knowledge for PSHA using graphical tools
- XL201 EGU2011-2642
Christopher Moseley, Claus Döring, Bernd Ahrends, and Oleg Panferov
 Uncertainties in regional climate scenarios data and their effect on results of impact models in forestry
- XL202 EGU2011-3372
Rachel Lowe, David Stephenson, Trevor Bailey, Tim Jupp, Richard Graham, and Adrian Tompkins
 Communicating probabilistic climate-sensitive disease risk forecasts
- XL203 EGU2011-13186
Dan Cornford, Richard Jones, Alexis Boukouvalas, and Remi Barillec
 Statistical Issues of Managing Uncertainties in Environmental Models
- XL204 EGU2011-13126
Dan Cornford, Edzer Pebesma, Stefano Nativi, Matthew Williams, Christoph Stasch, Richard Jones, and Lydia Gerharz
 Realising the Uncertainty Enabled Model Web
- XL205 EGU2011-4077
Kerry Gallagher, Thomas Bodin, Malcolm Sambridge, Dominik Weiss, Malin Kylander, and David Large
 Inference of abrupt changes in noisy data records using Bayesian transdimensional changepoint models
- XL206 EGU2011-5057
Matthias Vanmaercke, Jean Poesen, Faruk Ocakoglu, Mahmood Arabkhedri, and Maria Radoane
 How long should we measure to obtain reliable average catchment sediment yields?
- XL207 EGU2011-11108
 Mohamar Ouedraogo, **Aurore Degré**, Eléonore Beckers, and Charles Debouche
 A methodology to assess the exactness of Stream Network modeling process on agricultural watersheds
- XL208 EGU2011-10893
Philipp Weihs and the actiniflux Team
 The influence of the spatial resolution of topographic input data on the accuracy of 3-D UV actinic flux and irradiance calculations
- XL209 EGU2011-7018
Nadine Goris and Hendrik Elbern
 Singular vector based uncertainties of initial values and emissions for the ZEPTEP-2 campaign
- XL210 EGU2011-2566
Maurice Cox, Alistair Forbes, Nigel Fox, Peter Harris, Graham Machin, and Michael de Podesta
 Metrological issues in producing gridded temperature data sets

- XL211 EGU2011-9630
Greg Timms, Ben Howell, Paulo de Souza, Claire D'Este, Daniel Smith, Ross Atkins, and Chris Sharman
 Automated Assessment and Visualisation of Measurement Uncertainties in a Low-Cost Marine Sensor Network
- XL212 EGU2011-7137
Richard Wartenburger, Alexander Stickler, and Stefan Brönnimann
 Quality Control of Selected Historical Radiosonde Observations from 1948-1966
- XL213 EGU2011-8871
David Huard and Diane Chaumont
 Bayesian uncertainty analysis of climatological changes in IDF curves
- XL214 EGU2011-7428
Nikos Gianniotis, Carsten Riggelsen, and Frank Scherbaum
 Ensembles of Ground Motion Models
- XL215 EGU2011-9504
Anja Vrežko and Tomaž Podobnikar
 Error Assessment of DEM generated from Contours

ESSI11 – Real Use of Standards and Technologies - Live Demonstrations – Posters

Convener: John van de Vegte | Co-Conveners: David Arctur

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: David Arctur

- XL216 EGU2011-1402
Michael Schick
 End user image access using OGC WMS/WCS standards
- XL217 EGU2011-1531
Jaap Schellekens, Maarten Plieger, Martijn Schaap, and Ab Veldhuizen
 The use of OPeNDAP in the generation of climate scenarios by multiple institutes in The Netherlands.
- XL218 EGU2011-2733
Ben Domenico and Stefano Nativi
 Status Update on OGC Standards for CF-netCDF
- XL219 EGU2011-4486
Peter Baumann
 Boosting Scalability of OGC Standards on Massive Data Sets Through Database Technology
- XL220 EGU2011-7777
Ag Stephens, Stephen Pascoe, and Philip Kershaw
 Useful extensions to the OGC Web Processing Service based on a Python client/server implementation
- XL221 EGU2011-8288
Ed Hartnett
 Recent Development in NetCDF Libraries and Formats
- XL222 EGU2011-9528
Janet Fredericks, Julie Bosch, Eric Bridger, and Tony Cook
 Using OpenGeospatial Consortium Sensor Web Enablement Frameworks to Assess Quality Controlled Data

ESSI12 – Earth science on distributed infrastructures and in HPC (including Ian McHarg Medal Lecture) – Posters

Convener: Horst Schwichtenberg | Co-Conveners: Paolo Mazzetti, Sandro Fiore, Mohan Ramamurthy

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Horst Schwichtenberg, Paolo Mazzetti, Mohan Ramamurthy, Sandro Fiore

- XL223 EGU2011-10411
George Zodiatis, Daniel Hayes, Stavros Stylianou, Iacovos Constantinou, Andria Karaolia, Ermis Koufou, Stavros Michael, and Elena Zhuk
 Towards a new generation of BYTHOS system for data management in the Mediterranean and Black Sea
- XL224 EGU2011-11385
Dorian Gorgan, Pierluigi Cau, Karim Abbaspour, Ann van Griensven, Lukasz Kokoszkiwicz, Gregory Giuliani, Anthony Lehmann, Nicolas Ray, and Karel Charvat
 Environment Oriented Applications in enviroGRIDS Portal
- XL225 EGU2011-2937
Emanouil Atanassov, Aneta Karaivanova, Todor Gurov, Sofiya Ivanovska, Mariya Durchova, and Georgi Gadzhev
 SA of a Multi-scale Atmospheric Composition Model on the Grid

- XL226 EGU2011-13194
Antonio S. Cofino, Carlos Blanco Real, and Valvanuz Fernández Quiruelas
Aggregation of Grid and HPC resources for running huge experiments in climate and weather prediction
- XL227 EGU2011-10767
Viera Sipkova and Ladislav Hluchy
Workflows for simulating meteorological phenomena using the WRF model
- XL228 EGU2011-10504
Eva Pajorova and Ladislav Hluchy
Visualization tool and its integration in a gateway
- XL229 EGU2011-9811
Yun-Pin Sun, Hsin-Yen Chen, and Chuan-Yao Lin
e-Science Application on EUAsiaGrid: gLite based WRF simulation
- XL230 EGU2011-6798
Marcin Krotkiewski and Marcin Dabrowski
High-performance unstructured 3D modeling on modern clusters with thousands of CPUs.
- XL231 EGU2011-11082
Linus Kamb, Laurent Frobert, Alessandro Spinuso, Luca Trani, Remy Bossu, and Torild van Eck
NERIES Data Portal - Integrated Access to Distributed Diverse Data Archives
- XL232 EGU2011-12880
David Weissenbach, Julien Roch, and Eric Clévéde
Using grid infrastructure to explore the deep Earth elastic structure.
- XL233 EGU2011-3715
Yuan Ho, Tom Yoksas, and Julien Chastang
Unidata's Integrated Data Viewer (IDV) : Overview and Examples
- XL234 EGU2011-7579
Philip Kershaw, Jon Blower, Alistair Gemmell, Stephen Pascoe, and Ag Stephens
Building a Web Based Environment for the Intercomparison of Distributed Environmental Science Data: Challenges in Access Control and Security
- XL235 EGU2011-7758
Gerard Devine, Bryan Lawrence, Charlotte Pascoe, Rupert Ford, Paul Slavin, and Metafor Team
The CMP5 questionnaire: web-based metadata collection for climate modelling
- XL236 EGU2011-9280
Alastair Gemmell, Jon Blower, Phil Kershaw, Stephen Pascoe, and Ag Stephens
MashMyData: a gateway for scientific visualization and intercomparison of secure, distributed data
- XL237 EGU2011-3416
Monique Petitdidier and Horst Schwichtenberg
Grid in Geosciences

ESSI13/GI-17 – Open standards and distributed architectures for the Observation Web: from the sensors to the user (co-organized) – Posters

Convener: Denis Havlik | Co-Conveners: Walter Schmidt, Zoheir Sabeur, Stefano Nativi, Juan M. Tirado

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Denis Havlik, Walter Schmidt, Zoheir Sabeur, Juan M. Tirado, Stefano Nativi

- XL238 EGU2011-11506
Daniel Higuero, Juan M. Tirado, and Jesus Carretero
Distributing Data to Scientific Communities
- XL239 EGU2011-13591
Alessandro Oggioni, Dario Manca, Paola Carrara, Monica Pepe, and Mauro Bastianini
SOS in action: various fields of application
- XL240 EGU2011-13639
Denis Havlik, Andrea E. Rizzoli, Alexander Kaufmann, Gerald Schimak, Marcello Donatelli, Jiří Hřebíček, Giuseppe Avellino, Tomas Pariente Lobo, and Pascal Dihé
Distributed meta-information generation and semantic search for environmental resources in TaToo
- XL241 EGU2011-8879
Asher Flaws, Kai-Uwe Hess, Burkhard Schillinger, and Donald Bruce Dingwell
Tomoview: Fast, low-memory-usage software for 3-d imaging and analysis
- XL242 EGU2011-9422
Walter Schmidt, Maria Teresa Capria, and Gérard Chanteur
Europlanet-RI IDIS - Virtual Observatory for Planetary Research
- XL243 EGU2011-10055
Alessio Baldini and the GIIDA Working Group Team
The GIIDA project Initial Operating Capacity

- XL244 EGU2011-13770
Peter Kutschera, Denis Havlik, and Mihai Bartha
 OGC SWE compliant implementation of the model web in the climate change domain

ESSI14 – Metadata and Data Models, and Markup Languages – Orals

Convener: Andrew Woolf | Co-Conveners: Stefano Nativi, Simon Cox

Room: 19

Chairperson: A. Woolf, S. Cox, S. Nativi

- 17:30–17:45 EGU2011-10348
Christian Malewski, Ingo Simonis, Simon Cox, and Andrew Terhorst
 An Alternative Sensor Description Mark-Up Language
- 17:45–18:00 EGU2011-3380
Gil Ross
 Understanding the WMO BUFR standard in ISO/OGC terms (and v.v).
- 18:00–18:15 EGU2011-12475
Charlotte Pascoe, Marie-Pierre Moine, Allyn Treshansky, Gerard Devine, Sebastien Denvil, Michel Kolasinski, and Rupert Ford
 A Common Information Model paired with scientific Controlled Vocabularies for Climate Models and Statistical Downscaling
- 18:15–18:30 EGU2011-13113
Kerstin Lehnert
 Metadata Standards for Sample-Based Observations
- 18:30–18:45 EGU2011-9823
Baptiste Cecconi, Michel Gangloff, Christian Jacquy, Nataliya Bourrel, Nicolas André, Stéphane Erard, Sandrine Vinatier, Jérôme Berthier, Pierre Le Sidaner, and Cédric Leyrat
 Europlanet-IDIS Data model: a Data Model for a Planetology Virtual Observatory
- 18:45–19:00 EGU2011-3368
Spiros Ventouras and Bryan N. Lawrence
 Streamlining the Metadata Objects for Linking Environmental Sciences

ESSI14 – Metadata and Data Models, and Markup Languages – Posters

Convener: Andrew Woolf | Co-Conveners: Stefano Nativi, Simon Cox

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: A. Woolf, S. Cox, S. Nativi

- XL245 EGU2011-1855
Jordi Sorribas, Paolo Diviacco, Karien De Cauwer, Marie Paule Corre, and Alessandro Busato
 Ontology System for Survey Event characterization on Research Vessels
- XL246 EGU2011-6862
Marcus Ebner, Martin Schiegl, Werner Stöckl, Ralf Schuster, and Christoph Janda
 A SKOS based thesaurus of the Geological Survey of Austria exposed through an Open Linked Data Web-Service
- XL247 EGU2011-7097
Fabian Euchner, Marco Pagani, Damiano Monelli, Vitor Silva and the GEM Model Facility Team
 NRML: The Natural Hazards' Risk Markup Language
- XL248 EGU2011-9161
Carlo Cipolloni and Marco Pantaloni
 The harmonize and interoperability skill of the geologic data of the Geological Survey of Italy
- XL249 EGU2011-10505
Jens Klump and Robert Huber
 WorldML vs. YaML - On the scope and purpose of mark-up languages
- XL250 EGU2011-13462
 Peter Danecek, **Luca Postpischl**, and Andrea Morelli
 The development of a comprehensive format for the representation of seismic tomography models
- XL251 EGU2011-13479
Rob Atkinson
 Management of Data Models in Multidisciplinary Applications
- XL252 EGU2011-13589
Roberto Lucchi and Marten Hogeweg
 Sharing geospatial resources with Geoportal Server

ESSI15 – Collaborative environments and semantic interoperability – Posters

Convener: Peter Fox | Co-Conveners: Sandro Fiore, PAOLO DIVIACCO, Bruce Wright, Jon Blower

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Paolo Diviaco

- XL253 EGU2011-1812
Paolo Diviaco, Jordi Sorribas Cervantes, and Alessandro Busato
Supporting team-work in the Geosciences using web based mind maps and collaborative tools.
- XL254 EGU2011-1814
Paolo Diviaco, Roy Lowry, and Adam Leadbetter
Collaborative work and tools towards wide scientific community driven metadata model and vocabulary building. The case of the EU GeoSeas project.
- XL255 EGU2011-1893
Paolo Diviaco, Cyril Pshenichny, Roberto Carniel, and Boris Behncke
A case study on the use of event bushes as a formal representation for Computer Supported Collaborative Work in the GeoSciences
- XL256 EGU2011-2057
Tayebeh Kiani and Mohammad-Reza Kiani
Ontology of geological units
- XL257 EGU2011-2143
Adam Leadbetter, Oliver Clements, and Roy Lowry
Emerging standards in vocabulary server access methods
- XL258 EGU2011-3095
Oliver Clements, Adam Leadbetter, and Roy Lowry
Production of a search and browse interface for an environmental science thesaurus
- XL259 EGU2011-4146
Vladimir Nazarov, Ravil Nazirov, Alexander Abakumov, Oleg Batanov, Fedor Korotkov, Anton Ledkov, Anton Melnik, Nikolay Sanko, and Alexey Tretiakov
E-collaboration in Russian science space missions: conceptions of evolution.
- XL260 EGU2011-5320
Rob Atkinson and Paul Box
Infrastructure requirements for use of authoritative data in neogeography applications
- XL261 EGU2011-2691
Xiaogang Ma, Emmanuel John M. Carranza, Chonglong Wu, and Freek D. van der Meer
Combining ontology and data visualization techniques to generate interactive map legends for online geological maps
- XL262 EGU2011-13148
Tom Narock, Jan Merka, and Adam Szabo
Towards a Unified Heliophysics Data Environment: Semantic Interoperability and Knowledge Discovery
- XL263 EGU2011-13742
Manuela Núñez, Laura Díaz, Carlos Granell, and Joaquín Huerta
Web 2.0 Broker: a tool for massive collection of user information
- XL264 EGU2011-12513
William Pozzi, Juergen Vogt, Cristiano Fugazza, Mattia Santoro, Stefano Nataivi, Michael Piasecki, and **Stefan Niemeyer**
Semantics of European Drought Regional Implementation and its Extension to Africa

OS4.4 – Physical and biogeochemical ocean modelling: development, assessment, and applications (co-listed) –

Orals

Convener: David Ham | Co-Conveners: Thierry Penduff, Sergey Danilov, Stephen M. Griffies, Marina Levy

Room: 6

Chairperson: David Ham

- 10:30–10:45 EGU2011-2699
Sergey Danilov, Qiang Wang, Dmitry Sidorenko, and Jens Schroeter
Large-scale ocean modeling on unstructured meshes: current status and perspectives
- 10:45–11:00 EGU2011-259
Colin Cotter
The Holy Grail for unstructured grid ocean modelling: a finite element pair on triangles without spurious modes
- 11:00–11:15 EGU2011-385
Sean Vitousek and Oliver Fringer
Physical vs. Numerical Dispersion in Nonhydrostatic Ocean Modeling

- 11:15–11:30 EGU2011-7786
Julien Le Sommer, Francesco d'Ovidio, and Gurvan Madec
 Parameterization of subgrid stirring in eddy resolving ocean models.
- 11:30–11:45 EGU2011-9223
Matthieu Leclair and Gurvan Madec
 Éœz-coordinate, an Arbitrary Lagrangian-Eulerian coordinate separating high and low frequency motions
- 11:45–12:00 EGU2011-1517
Jarle Berntsen
 A perfectly balanced method for estimating the internal pressure gradients in sigma-coordinate ocean models

LUNCH BREAK

Chairperson: Thierry Penduff

- 13:30–13:45 EGU2011-849
Flora MacTavish, Colin Cotter, and Matthew Piggott
 An idealised model of the restratification after open ocean deep using an unstructured mesh
- 13:45–14:00 EGU2011-955
Hannah Hiester, Matthew Piggott, and Peter Allison
 The use of adaptive meshes in ocean modelling: considerations from simulations of the lock-exchange flow
- 14:00–14:15 EGU2011-3396
Marion Meinvielle, Pierre Brasseur, Jean-Michel Brankart, Bernard Barnier, Thierry Penduff, and Jean-Marc Molines
 Optimal adjustment of atmospheric forcing parameters for long term simulations of the global ocean circulation
- 14:15–14:30 EGU2011-3499
Chuanyu Liu, Armin Koehl, and Detlef Stammer
 Estimating Eddy Induced Tracer Mixing Parameters through Global Ocean Data Assimilation Synthesis
- 14:30–14:45 EGU2011-12242
Matthias Hofmann and Miguel Angel Morales Maqueda
 Changing mid-latitude westerlies and their impact to Southern Ocean eddies in a coarse resolution ocean model.
- 14:45–15:00 EGU2011-3957
Hiroaki Tatebe, Masao Kurogi, Tatsuo Suzuki, Yukio Tanaka, Hiroyasu Hasumi, Masayoshi Ishii, and Masahide Kimoto
 Long-term modulations of mesoscale eddy activities in the Kuroshio-Oyashio confluence zone represented in a high-resolution coupled model, and further model development toward better predictions

Chairperson: Marina Lévy

- 15:30–15:45 EGU2011-8451
Gennady Chepurin, James Carton, Scott C. Doney, and Ivan Lima
 Impact of Improved Ocean Physical State Estimates on Simulated Interannual Air-Sea CO₂ Flux Variations
- 15:45–16:00 EGU2011-4782
Diego Santaren and Nicolas Gruber
 The relative benefit of different observations for constraining parameters of a marine biogeochemistry/ecological model
- 16:00–16:15 EGU2011-12283
Wolfgang Koeve and Heiner Dietze
 Evaluating coupled ecosystem ocean circulation models: can we trust the concept of preformed nutrients?
- 16:15–16:30 EGU2011-9451
Olaf Duteil, Iris Kriest, Samar Khatiwala, and Andreas Oschlies
 Coupling of a complex biogeochemical model with the Transport Matrix Method : quantification of the impact of margin iron input on the ecosystem.
- 16:30–16:45 EGU2011-9317
Michael Lange, Tony Field, Cheng-Chien Liu, Jon Hill, and Gerard Gorman
 Fast and accurate multi-spectral optics in an ocean model
- 16:45–17:00 EGU2011-13525
Mattheus P. Ueckermann and Pierre F.J. Lermusiaux
 High Order Schemes for Biogeochemical Ocean Dynamics

Friday, 08 April

ESSI1/AS4.17/CL4.8 – International Collaboration and Integration Strategies for Climate and other Geosciences Informatics (co-organized) – Orals

Convener: David Arctur | Co-Conveners: Monique Petitdidier, Bryan Lawrence, Sandro Fiore, Mohan Ramamurthy

Room: 19

Chairperson: n.n.

- 15:30–15:45 EGU2011-571
A Babatunde Rabi
African Geospace Society: Example of Continental-Wide Collaboration in Africa
- 15:45–16:00 EGU2011-4992
Monique Petitdidier, Charles Barton, Boubakar Barry, Victor Chukwuma, and Les Cottrell
eGY-Africa - better Internet connectivity to reduce the digital divide
- 16:00–16:15 EGU2011-13510
Tom Yoksas, Raj Pandya, Abudulai Adams-Forgor, Patricia Akweongo, Vanja Dukic, Mary Hayden, Tom Hopson, Benjamin Lamprey, Roberto Mera, Sylwia Trazka and the UCAR Africa Initiative Team
The UCAR Africa Initiative - Overview and Update
- 16:15–16:30 EGU2011-2181
Stefano Nativi, Steffen Fritz, Russ Lefevre, Paolo Mazzetti, and Stuart Marsh
EGIDA: Coordinating Earth and Environmental cross-disciplinary projects to promote GEOSS
- 16:30–16:45 EGU2011-6514
Joan Maso
GeoViQua: Making quality easy for the Global Earth Observation System of System
- 16:45–17:00 EGU2011-13502
Patrick West, **Gregory Leptoukh**, Stephan Zednik, Chris Lynnes, Suraiya Ahmad, Jianfu Pan, and Peter Fox
Experiences Developing a Semantic Representation of Product Quality, Bias, and Uncertainty for a Satellite Data Product

ESSI12 – Earth science on distributed infrastructures and in HPC (including Ian McHarg Medal Lecture) – Orals

Convener: Horst Schwichtenberg | Co-Conveners: Paolo Mazzetti, Sandro Fiore, Mohan Ramamurthy

Room: 19

Chairperson: Horst Schwichtenberg, Sandro Fiore,

- 10:30–10:45 EGU2011-13736
Jean-pierre Antikidis
Wide Area Grid technology as a new way to conceive integrated Earth Observation satellite systems: The e-CORCE case
- 10:45–11:00 EGU2011-14022
Roberto Cossu, Li Santi, f. Cesarini, and r. Rautenhaus
Community Specific Visualization tools in the GENESI-DEC environment
- 11:00–11:15 EGU2011-699
Victor Ioan Bacu, Denisa Rodila, Lukasz Kokoszkiewicz, Elham Rouholahnejad, Danut Mihon, Ann van Griensven, Karim Abbaspour, and Dorian Gorgan
Calibration and Execution of SWAT Models over GRID Architecture
- 11:15–11:30 EGU2011-3548
Valerio Angelini, Paolo Mazzetti, and Michele Pierri
Modelling Climate Change Effects on Species Distribution using a Cloud Computing Infrastructure
- 11:30–11:45 EGU2011-6813
Marcin Krotkiewski and Marcin Dabrowski
Efficient 3D stencil computations and geometric multigrid on modern GPUs
- 11:45–12:00 EGU2011-7988
Stephen Pascoe, Philip Kershaw, Martin Juckes, and Bryan Lawrence
Ensuring a unified user experience in a federated portal architecture: experiences of the CMIP5 archive

LUNCH BREAK

Chairperson: Mohan Ramamurthy, Paolo Mazzetti

- 13:30–13:45 EGU2011-4928
Stephan Zednik, Gregory Leptoukh, Peter Fox, Chris Lynnes, and Jianfu Pan
 Experiences Developing a User-centric Presentation of Provenance for a Web-based Science Data Analysis Tool
- 13:45–14:00 EGU2011-6444
Sandro Fiore and Giovanni Aloisio
 Monitoring, registry, browsing and access functionalities in the Dash-G system
- 14:00–15:00 EGU2011-14213
Monique Petitdidier
 Anywhere Anytime Managing New Technologies in Geosciences (Ian McHarg Medal Lecture)

OS4.4 – Physical and biogeochemical ocean modelling: development, assessment, and applications (co-listed) –

Posters

Convener: David Ham | Co-Conveners: Thierry Penduff, Sergey Danilov, Stephen M. Griffies, Marina Levy

Halls X/Y | Display Time 08:00–17:00

Author in Attendance: 10:30–12:00

Chairperson: Sergey Danilov

- XY424 EGU2011-11577
David Ham
 Automated adjoints: towards a robust method for generating adjoint ocean models
- XY425 EGU2011-5139
Ricardo Matano and Elbio Palma
 The upstream spreading of bottom-trapped plumes
- XY426 EGU2011-954
Simon Funke, Chris Pain, Stephan Kramer, and Matthew Piggott
 A wetting and drying algorithm for non-hydrostatic models with combined pressure/free-surface
- XY427 EGU2011-11728
Dmitry Sidorenko, Qiang Wang, Sergey Danilov, and Jens Schröter
 FESOM under Coordinated Ocean-ice Reference Experiment forcing
- XY428 EGU2011-13465
Qiang Wang, Dmitry Sidorenko, Xuezhu Wang, Claudia Wekerle, Sergey Danilov, and Jens Schröter
 Global FESOM simulations under the framework of interannual Coordinated Ocean-ice Reference Experiments (CORE-II)
- XY429 EGU2011-3432
Raphael Dussin, Mélanie Juza, Bernard Barnier, Jean-Marc Molines, Thierry Penduff, and Gilles Garric
 Impact of vertical resolution in an eddy-permitting Ocean Global Circulation Model forced with ERA-Interim
- XY430 EGU2011-3586
Karen Guihou, Yann Ourmieres, and Bruno Zakardjian
 Assessment of a NEMO-based downscaling experiment for the North-Western Mediterranean region: impacts on the Northern Current and comparison with ADCP data and altimetry products.
- XY431 EGU2011-931
Xi Lu
 Numerical study of the water exchange in the Western Baltic Sea
- XY432 EGU2011-1383
Moritz Mathis and Thomas Pohlmann
 A Projected Forecast of Hydrodynamic Conditions in the North Sea Using Bias Corrected Atmospheric Forcing Data
- XY433 EGU2011-2575
Yangchun Li and Yongfu Xu
 Sensitivity of the uptake of bomb ^{14}C to the air-sea exchange scheme in the Pacific Ocean model
- XY434 EGU2011-4059
Yongfu Xu and Qi Ba
 Tritium uptake in the ocean general circulation model of the Pacific Ocean
- XY435 EGU2011-4519
Young-Gyu Park
 North Pacific Intermediate Water from two NOAA/GFDL coupled models, CM2G and CM2M
- XY436 EGU2011-13554
Robin Matthews
 Observational Datasets for Ocean Acidification Modelling
- XY437 EGU2011-6851
Ana Cordeiro Pires, Rita Nolasco, Jesus Dubert, and Alfredo Rocha
 Assessing future climate change in the Iberian Upwelling System using a multi-model mean ensemble

- XY438 EGU2011-2234
Igor Shulman, Mark Moline, Bradley Penta, Stephanie Anderson, Matthew Oliver, and Steven Haddock
 Modeling and observations of coupled bio-optical, bioluminescent and physical properties.
- XY439 EGU2011-10376
Jon Hill, Ekaterina Popova, David Ham, Matthew Piggott, and Meric Srokosz
 Ocean ecosystem modelling in an adaptive mesh model: a performance evaluation
- XY440 EGU2011-8379
Thomas Slawig, Malte Prieß, and Slawomir Koziel
 Surrogate-based optimization of parameters in a marine ecosystem model
- XY441 EGU2011-8735
James While, Ian Totterdell, and Mathew Martin
 Assimilation of pCO₂ data into a global biogeochemical model
- XY442 EGU2011-6626
Steve Jones, Corinne Le Quéré, and Christian Rödenbeck
 Global Interpolation of Surface Ocean pCO₂
- XY443 EGU2011-7792
Marion Fraysse, Christel Pinazo, Vincent Faure, and Ivane Pairaud
 3D coupled physical and biogeochemical modelling approach: limitation on biological productions by the different nutrients in Marseilles coastal area.
- XY444 EGU2011-1959
Moacyr Araujo, Nathalie Lefrère, Nadège Bouchonneau, Carlos Noriega, and Marcus Silva
 Simulating the tropical Atlantic air-sea CO₂ exchange with a Regional high resolution ocean modeling system
- XY445 EGU2011-7866
Marcus Silva, Nadège Bouchonneau, Carlos Noriega, Nathalie Lefèvre, and Moacyr Araujo
 Modeling biogeochemical cycles in the Southwestern tropical Atlantic
- XY446 EGU2011-5698
Victor Gorchakov, Vladimir Ryabchenko, Nikolay Diansky, and Svetlana Pugalova
 Modeling the seasonal and inter-annual variability of physical and ecosystem characteristics in the upper layer of the Central-Eastern North Atlantic
- XY447 EGU2011-5122
Rosa Reboreda, Jesus Dubert, Rita Nolasco, Martinho Marta-Almeida, Henrique Queiroga, Carlos Rocha, and Nuno Cordeiro
 Three-dimensional modeling of phytoplankton and zooplankton seasonal distribution in the Iberian upwelling system
- XY448 EGU2011-1569
Ruoying He, Dennis McGillicuddy, Donald Anderson, Bruce Keafer, and Yizhen Li
 Predicting Coastal Circulation and Harmful Algal Blooms in the Gulf of Maine: From Ensemble Seasonal Forecasting to Data Assimilative Hindcasting
- XY449 EGU2011-1202
Robert McEwan, Maeve Lohan, Nataliya Stashchuk, and Vasiliy Vlasenko
 Modelling nutrient distributions in a large-scale river plume

