

EGU General Assembly 2012
Programme Group Programme
EG – Europe in Geosciences

Tuesday, 24 April	2
CL1.17/EG1.....	2
EG4.....	4
Friday, 27 April	6
OS2.2/EG3/CL2.12.....	6

Tuesday, 24 April

CL1.17/EG1 – Reconstructing the climate of the last two millennia (including Hans Oeschger Medal Lecture) (co-organized) – Orals

Convener: J. Luterbacher | Co-Conveners: D. McCarroll, F. González-Rouco, E. Zorita, L. von Gunten

Room: 15

Chairperson: Eduardo Zorita

- 08:30–08:45 EGU2012-883
Z. Yuan
A Robust Reconstruction of Precipitation Variations of China Over Both a Short-term Scale and the Last Two Millennia
- 08:45–09:00 EGU2012-8892
B. Wilhelm, F. Arnaud, C. Giguet-Covex, P. Sabatier, C. Crouzet, and J.J. Delannoy
Two millennia of torrential activity reconstructed from alpine lake sediments: towards regional patterns of extreme precipitation changes
- 09:00–09:15 EGU2012-5833
H. Oerter, S. Kipfstuhl, and F. Wilhelms
Stable isotope records for the past 2000 years from ice cores in central Dronning Maud Land, Antarctica
- 09:15–09:30 EGU2012-2546
D. Guillot, B. Rajaratnam, and J. Emile-Geay
Multiproxy Paleoclimate Reconstruction Using Gaussian Graphical Models
- 09:30–09:45 EGU2012-7632
B. Christiansen and F. C. Ljungqvist
Bias and confidence intervals in climate reconstructions
- 09:45–10:00 EGU2012-7486
J.P. Werner, J. Luterbacher, and J.E. Smerdon
A pseudo proxy evaluation of pattern-based vs. localised climate field reconstructions

COFFEE BREAK

Chairperson: Juerg Luterbacher

- 10:30–11:30 EGU2012-14454
M.E. Mann
The Past as Prologue: Learning from the Climate Changes in Past Centuries (Hans Oeschger Medal Lecture)
- 11:30–11:45 EGU2012-3771
E. Zorita, R. Caballero, and S. Wagner
Global spatial patterns of natural and forced variability in the past millennium
- 11:45–12:00 EGU2012-448
J. Zhang and T. Wu
The impact of external forcings on climate during the past millennium: Results from transient simulation with BCC_CSM1.1

LUNCH BREAK

Chairperson: Jesus Fidel Gonzalez-Rouco

- 13:30–13:45 EGU2012-2035
H. Goosse and S. Dubinkina
Towards a reanalysis covering the last millennia
- 13:45–14:00 EGU2012-225
L. Fernández-Donado, J. F. González-Rouco, C. C. Raible, D. Barriopedro, J. Luterbacher, J. H. Jungclaus, D. Swingedouw, J. Servonnat, S. Tett, P. Brohan, E. Zorita, S. Wagner, C. M. Ammann, S. J. Phipps, D. Klocke, P. Yiou, and S. Lorenz
Forcings, temperature response and climate sensitivity in pre-PMIP3 last millennium simulations and reconstructions
- 14:00–14:15 EGU2012-7537
A. Hind, A. Moberg, R. Sundberg, H. Grudd, G. Brattström, R. Caballero, and **E. Zorita**
A GCM-reality intercomparison for the last millennium

- 14:15–14:30 EGU2012-12032
E. García-Bustamante, J. Luterbacher, E. Xoplaki, J. P. Werner, J. Jungclaus, E. Zorita, J.F. González-Rouco, L. Fernández-Donado, G. Hegerl, Q. Ge, Z. Hao, and S. Wagner
 Climate variability in China during the last millennium based on reconstructions and simulations
- 14:30–14:45 EGU2012-4794
S Wagner, E Zorita, J Luterbacher, and J Werner
 Added value of a regional climate model simulation of historical times over Europe
- 14:45–15:00 EGU2012-4725
F. Lehner, C. C. Raible, N. Merz, and T. F. Stocker
 Testing the robustness of proxy-based North Atlantic Oscillation reconstructions

CL1.17/EG1 – Reconstructing the climate of the last two millennia (including Hans Oeschger Medal Lecture) (co-organized) – Posters

Convener: J. Luterbacher | Co-Conveners: D. McCarroll, F. González-Rouco, E. Zorita, L. von Gunten

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Eduardo Zorita, Jesus Fidel Gonzalez-Rouco, Juerg Luterbacher

- Z43 EGU2012-1965
P.D. Breitenmoser, D. Frank, and S. Brönnimann
 Forward modeling of tree-ring data: a case study with a global network
- Z44 EGU2012-7605
J. A. Wassenburg, A. Immenhauser, D. K. Richter, J. Fietzke, D. Scholz, K. P. Jochum, D. F. C. Riechelmann, L. Schneider, and J. Esper
 Medieval climate anomaly and little ice age as recorded in speleothem and tree-ring data from the Middle Atlas in Morocco
- Z45 EGU2012-2570
A. Laskar, M. Yadava, and R. Ramesh
 A 4 kyr stalagmite oxygen isotopic record of the past Indian Summer Monsoon in the Andaman Islands
- Z46 EGU2012-9189
Y. Watanabe, M. Kita, T. Fukunaga, S. Sakai, T. Tagami, K. Takemura, and S. Yoden
 Geochemical data recorded in stalagmites from West and East Java, Indonesia
- Z47 EGU2012-4217
Dr Macdonald, Dr Chiverrell, Ms Hind, Ms Todd, and Dr Charman
 A multi-proxy reconstruction of millennial scale drought history for Northern England
- Z48 EGU2012-2844
H. Wu, T. Felis, M. Kölling, C. Giry, D. Scholz, and S. Scheffers
 Sub-seasonally resolved coral records of Caribbean sea surface conditions during the demise of the Maya civilization (~AD 800-1050)
- Z49 EGU2012-7123
M.P. Lüthi
 A 1600 year history of Alpine glacier equilibrium line altitude inferred from glacier length records, and the relation to summer temperature and radiation
- Z50 EGU2012-10969
F. Ott, B. Brademann, M. S?owi?ski, P. Dulski, B. Plessen, M. Blaszkiewicz, and A. Brauer
 Seasonal sub-layer variations of a varved record from the Czechowskie Lake, Poland
- Z51 EGU2012-7756
D. Schillereff, R. Chiverrell, N. Macdonald, and J. Hooke
 Lakes as recorders of extreme flows: a millennial-scale palaeoflood record from the English Lake District
- Z52 EGU2012-13364
I. Gil, L. Keigwin, F. Abrantes, and D. Hebbeln
 A late Holocene diatom record from the Laurentian Fan reveals the imprints of solar forcing over oceanic circulation changes
- Z53 EGU2012-8098
G. Rueda, A. Rosell-Melé, and R. Gyllencreutz
 Reconstructing climatic conditions in the Skagerrak during the last 2000 years using an organic biomarker approach
- Z54 EGU2012-13466
L. Pérez-Cruz, J.M. Bautista, and J. Urrutia-Fucugauchi
 High resolution multi-decadal climate record of the last 1200 years in the southern Gulf of California
- Z55 EGU2012-8320
J.J. Gómez-Navarro, J.P. Montávez, P. Jiménez-Guerrero, J.F. González-Rouco, E. García-Bustamante, J. Luterbacher, and E. Zorita
 Assessing the Physical Consistence of Several Gridded Reconstructions Over Europe Through a High-Resolution Climate Paleosimulation

- Z56 EGU2012-10764
M. Gagen, E Zorita, D McCarroll and the The Millennium project consortium. Team
Episodes of large unforced variability in European climate over the last millennium.
- Z57 EGU2012-4788
J. Franke, D. Frank, C. Raible, J. Esper, and S. Brönnimann
Spectral biases in climate proxies and reconstructions
- Z58 EGU2012-6392
P. Yiou, J. Servonnat, M. Yoshimori, D. Swingedouw, M. Khodri, and A. Abe-Ouchi
Stability of weather regimes during the last millennium from climate simulations
- Z59 EGU2012-11359
J.A. García-Valero, J.J. Gómez-Navarro, J.P. Montávez, P. Jiménez-Guerrero, R. Lorente-Plazas, R. Baró,
and E. Zorita
External forcing influence on Weather Types along the last Millennium
- Z60 EGU2012-13245
S. Hanhijärvi and A. Korhola
MuReMo: Reconstructing from proxy records of multiple resolutions assuming monotonic transfer functions

EG4 – Research on Flood Resilience and Europe – Orals

Convener: I. Tchiguirinskaia | Co-Conveners: D. Schertzer, S. Garvin

Room: D

Chairperson: S. Garvin

- 08:30–08:45 EGU2012-14316
B. Avril and et al.
Responses to Environmental & Societal Challenges for our Unstable Earth (RESCUE) foresight initiative
- towards a European response to grand challenges in sustainability research and learning
- 08:45–09:00 EGU2012-13902
J. Tourbier
A Methodology to Define Flood Resilience
- 09:00–09:15 EGU2012-14322
J. Mysiak
The importance of being resilient
- 09:15–09:30 EGU2012-10984
C. Kuhlicke and A. Steinführer
A capacity assessment towards more resilient societies
- 09:30–09:45 EGU2012-12052
I. White, P O'Hare, and N Lawson
Responsibilities for European risk management: the roles of the state, the insurance industry and the
individual in flood risk management
- 09:45–10:00 EGU2012-14353
C. Zevenbergen
Building Flood Resilience: From Theory to Practice

COFFEE BREAK

Chairperson: D. Schertzer

- 10:30–10:45 EGU2012-13924
S. Garvin and D. Kelly
Flood resilience technology, systems and tools
- 10:45–11:00 EGU2012-14347
C. Maksimovic
Next generation paradigm for urban pluvial flood modelling, prediction, management and vulnerability
reduction - Interaction between RainGain and Blue Green Dream projects
- 11:00–11:15 EGU2012-14282
Ph. Gourbesville
Urban flooding and Resilience: concepts and needs
- 11:15–11:30 EGU2012-14349
S. Schneiderbauer
Vulnerability and Resilience to Floods -Examples from Research in South Tyrol
- 11:30–11:45 EGU2012-7349
K. Beven, D. Leedal, J. Neal, P. Bates, N. Hunter, R. Lamb, and C. Keef
Flood resilience and uncertainty in flood risk assessment

11:45–12:00 EGU2012-14320

S. Fuchs

Communicating the unexpected - the fable of the lay foible and some other issues resulting from research in Alpine watersheds

EG4 – Research on Flood Resilience and Europe – Posters

Convener: I. Tchiguirinskaia | Co-Conveners: D. Schertzer, S. Garvin

Hall XL | Display Time 08:00–19:30

Author in Attendance: 15:30–17:00

Chairperson: I. Tchiguirinskaia

XL1 EGU2012-14352

J. Richard, A. Giangola-Murzyn, A. Gires, I Tchiguirinskaia, and D. Schertzer
Advanced GIS data assimilation interface for evaluation of flood resilient systems

XL2 EGU2012-12758

A. Giangola-Murzyn, A. Gires, J. Richard, I. Tchiguirinskaia, and D. Schertzer
Multi-Hydro: a multi module physically based model to evaluate effect of implementation of the flood resilience measure.

XL3 EGU2012-13221

A. Gires, A. Giangola-Murzyn, I. Tchiguirinskaia, D. Schertzer, and S. Lovejoy
Required spatial resolution of hydrological models to evaluate urban flood resilience measures

XL4 EGU2012-14324

S. Ochoa Rodriguez, J.A.E. ten Veldhuis, C. Maksimovic, D. Schertzer, and P. Willems
Scientific challenges for enhancing urban pluvial flood resilience

XL5 EGU2012-14351

C.T. Hoang, I. Tchiguirinskaia, D. Schertzer, and S. Lovejoy
Assessing the quality of rainfall data when aiming to achieve flood resilience

XL6 EGU2012-13606

D. Schertzer, I. Tchiguirinskaia, and S. Lovejoy
Multiscale Metrics to Assess Flood Resilience: Feedbacks from SMARTeST

XL7 EGU2012-12526

J.-L. Salagnac, **J Diez**, and J. Tourbier
From flood management systems to flood resilient systems: integration of flood resilient technologies

XL8 EGU2012-10774

J.J. Diez Gonzalez, M.D. Esteban, J.V. Monnot, J.S. López Gutiérrez, V. Negro Valdecantos, E.J. Calderón,
P. Márquez Paniagua, and J.M. Silvestre
Coastal Floods: Urban Planning as a Resilience System

XL9 EGU2012-11004

J.J. Diez Gonzalez, J.V. Monnot, P. Marquez Paniagua, P. Pámpanas, S. Paz Abuín, P. Prendes, O. Videra,
and U.P.M. SMARTeST team
Flood Resilient Technological Products

XL10 EGU2012-6421

N. Manojlovic, V. Gabalda, D. Antanaskovic, I. Gershovich, and E. Paschet
Flood Resilient Systems and their Application for Flood Resilient Planning

XL11 EGU2012-10968

R. Schinke, S. Golz, and **T. Naumann**
Consideration of flood resilience measures within damage assessment

Friday, 27 April

OS2.2/EG3/CL2.12 – Advances in understanding of the multi-disciplinary dynamics of the Southern European Seas (Mediterranean and Black Sea) (co-organized) – Orals

Convener: S. Somot | Co-Conveners: M. Gregoire, E. Özsoy, A. Pascual

Room: 5

Chairperson: S. Somot, E. Ozsoy

- 13:30–13:45 EGU2012-787
M. Bensi, V. Cardin, and M. Ga?i?
 Thermohaline variability and mesoscale activities observed at the E2M3A deep site in the south Adriatic Sea
- 13:45–14:00 EGU2012-12099
A. Gogou*, A. Sanchez-Vidal*, S. Stavrakakis, X. Durrieu de Madron, A.M. Calafat, M. Stabholz, S. Psarra, M. Canals, S. Heussner, I. Stavrakaki, and E. Papathanassiou
 Carbon Flux to the Deep in three open sites of the Southern European Seas
- 14:00–14:15 EGU2012-11948
I. Bouloubassi, A. Gogou, S. Stavrakakis, A. Sanchez-Vidal, and M. Grégoire
 Downward biogenic fluxes in the SW Black Sea: dynamics of their compositional and temporal patterns
- 14:15–14:30 EGU2012-178
S. Karimova
 Satellite observations of eddies in the Baltic, Black and Caspian seas
- 14:30–14:45 EGU2012-2755
A. Pascual, J. Bouffard, S. Ruiz, B. Buongiorno Nardelli, and R. Escudier
 Recent advances on mesoscale variability in the Western Mediterranean Sea: complementarity between satellite altimetry and other sensors
- 14:45–15:00 EGU2012-4692
A. Peliz
 Alboran jets, gyres and eddies in a 20-year high resolution simulation
- Chairperson: M. Gregoire, A. Pascual
- 15:30–15:45 EGU2012-6229
J. Soto-Navarro, S. Somot, F. Sevault, J. Beuvier, F. Criado-Aldeanueva, J. García-Lafuente, and A. Sánchez-Román
 Study of the exchange flow through the Strait of Gibraltar with the NEMOMED8 Ocean Circulation Model: model validation, interannual variability and trends.
- 15:45–16:00 EGU2012-12311
C. Dubois, F. Sevault, and S. Somot
 Impact of the heat and salt content in the Atlantic on the Western Mediterranean Deep Water masses formation
- 16:00–16:15 EGU2012-11230
A. Elizalde and U. Mikolajewicz
 Resolving explicitly the Black Sea in the Mediterranean Sea simulations using a fully coupled atmosphere-ocean model.
- 16:15–16:30 EGU2012-11614
A. Theocharis, G. Krokos, and G. Korres
 An internal mechanism driving decadal oscillations of the thermohaline circulation and properties in the Eastern Mediterranean
- 16:30–16:45 EGU2012-4437
G. Mattia, M. Vichi, M. Zavatarelli, and P. Oddo
 The wind-driven response of the Mediterranean sea biogeochemistry to the Eastern Mediterranean Transient. A numerical model study.
- 16:45–17:00 EGU2012-11669
L. Velea, R. Bojariu, and T. Chronis
 Evaluation of air-sea exchange over Black Sea from a regional climate simulation

OS2.2/EG3/CL2.12 – Advances in understanding of the multi-disciplinary dynamics of the Southern European Seas (Mediterranean and Black Sea) (co-organized) – Posters

Convener: S. Somot | Co-Conveners: M. Gregoire, E. Özsoy, A. Pascual

Hall X/Y | Display Time 08:00–17:00

Author in Attendance: 10:30–12:00

Chairperson: S. Somot

- XY365 EGU2012-901
V.V. Fomin, V.B. Zalesny, N.A. Diansky, and A.V. Gusev
Black and Azov Sea circulation numerical modelling on the basis of splitting technique
- XY366 EGU2012-2606
I. Vilibic, S. Matijevic, and J. Sepic
Long-term changes in the middle Adriatic oceanographic properties
- XY367 EGU2012-2809
A. Sanchez-Roman, J. Garcia-Lafuente, R. Sanchez-Leal, J. Delgado, J. Soto-Navarro, and C. Naranjo
Seasonal and Inter-annual signals in the Mediterranean Outflow observed in Espartel Sill (western Strait of Gibraltar) during the last decade
- XY368 EGU2012-3036
P. Censi, M. Raso, F. Saiano, and P. Zuddas
HOW Zr/Hf AND Gd ANOMALY SIGNATURES CAN DEPICT SOLID-LIQUID INTERACTIONS IN SEAWATER
- XY369 EGU2012-3655
G. Korotaev, Yu. Ratner, A. Kholod, M. Martynov, M. Ivanchik, S. Denmyshev, V. Dorofeev, V. Knysh, V. Moiseenko, A. Kybryakov, T. Churilova, and V. Suslin
Variability of the Black Sea from My Ocean Black Sea Monitoring and Forecasting Center Products
- XY370 EGU2012-3972
V.S. Arkhipkin, E.A. Malyarenko, and G.V. Surkova
Analysis of storm waves on the Caspian Sea
- XY371 EGU2012-4188
V. Dorofeyev, T. Oguz, G. Korotaev, and L. Sukhikh
Hindcast and Forecast of the Black Sea Ecosystem on the Basis of 3D Interdisciplinary Model
- XY372 EGU2012-4244
D. Boutov and **A. Peliz**
Atmospheric forcing and Sea Surface Temperature response in the Gulf of Cadiz-Alboran Sea system in a 20 years simulation
- XY373 EGU2012-4300
E. Clementi, **M. Zavatarelli**, P. Oddo, G. Volpe, S. Colella, and V. Djurdjevic
Validation of a 3D coupled physical-biogeochemical model in the Adriatic Sea
- XY374 EGU2012-4423
S. Ruiz, L. Renault, B. Garau, and J. Tintoré
Underwater glider observations and modeling of an abrupt mixing event in the upper ocean
- XY375 EGU2012-4432
A.I. Kubryakov, G.K. Korotayev, F.-X. Thoorens, O. Liungman, and C. Ambjorn
New tool for the Black Sea environmental safety: BlackSea Track Web
- XY376 EGU2012-4751
G. Surkova, A. Kislov, and P. Koltermann
Large-scale atmospheric circulation and extreme wind events during the Black sea storms
- XY377 EGU2012-4877
B. Petelin, V. Malacic, A. Malej, M. Kukar, and I. Kononenko
Multi-level Association Rules and Directed Graphs for the Lagrangian Analysis of the Mediterranean Ocean Forecasting System (MFS)
- XY378 EGU2012-5633
F.N. Gippius and V.S. Arkhipkin
Hydrological regime of the Black Sea waters: numerical modeling
- XY379 EGU2012-5643
A. K. Stips, E. Garcia Gorriz, and G. Lessin
Linear trends or regime shifts: statistical analysis of data and biogeochemical model simulations for the last 50 years in the Aegean Sea
- XY380 EGU2012-6016
B. L'Hévéder, L. Li, F. Sevault, and S. Somot
Interannual variability of deep convection in the Gulf of Lions in a Atmosphere-Ocean Regional Climate Model for the Mediterranean area.
- XY381 EGU2012-6292
S. Riha and A. Peliz
An Idealized Isopycnal 2-Layer Model of the Alboran Sea
- XY382 EGU2012-7200
T. Churilova and V. Suslin
Black Sea spectral bio-optical models based on satellite data and their applications for assessment of spatial and temporal variability in waters transparency, chlorophyll a content and primary production
- XY383 EGU2012-7591
R. Balbín, A. Aparicio, J.L. López-Jurado, and M.M Flexas
Interannual variability of Dissolved Oxygen values around the Balearic Islands

- XY384 EGU2012-8476
A. Aparicio, J.L. López-Jurado, R. Balbín, J. Jansá, and B. Amengual
 IBAMar 2.0: 36 years sampling on the Western Mediterranean Sea
- XY385 EGU2012-8932
E. Padorno, R. Aznar, E. Álvarez-Fanjul, S. Somot, F. Sevault, M. Déqué, M. Herrmann, G. Jordá, M. Marcos, and D. Gomis
 Impact of climate change scenarios in the Mediterranean Sea from a regional ocean model
- XY386 EGU2012-9349
M. Adani, G. Korres, P. Oddo, and N. Pinardi
 Coupling OGCM and Wave model through the drag coefficient
- XY387 EGU2012-12232
C. Naranjo, J. García-Lafuente, G. Sannino, J.C. Sanchez-Garrido, J. Soto-Navarro, E. Bruque, S. Sammartino, A. Sanchez-Roman, and C. Calero
 The WMDW path from its formation place to the Gibraltar gateway.
- XY388 EGU2012-7836
 R. Soczka Mandac and **B. Bogunovi?**
 Spatial and temporal variability of R1 in the Bay of Koper (Gulf of Trieste)
- XY389 EGU2012-4851
G. Sannino and A. Carillo
 Effect of explicit tides in an eddy resolving Mediterranean model with increased resolution at Gibraltar.
- XY390 EGU2012-12855
 A. Capet, J.M Beckers, A. Barth, and **M. Grégoire**
 Interannual variability of Black Sea's hydrodynamics and connection to atmospheric patterns: model study.
- XY391 EGU2012-716
N. Sokolikhina, E. Semenov, and E. Sokolikhina
 Meteorological and Synoptic Aspects of the Novorossiysk Bora Forming and Evolution

