

EGU General Assembly 2012
Programme Group Programme
CL – Climate: Past, Present, Future

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Monday, 23 April

AS1.10 – The global monsoon system: variability and dynamics (co-listed) – Orals

Convener: J. Li | Co-Conveners: Dr Turner, A. Bracco, P. Terray

Room: 10

Chairperson: n.n.

- 15:30–15:45 EGU2012-3078
Y. Ming, M. Bollasina, and V. Ramaswamy
Anthropogenic aerosols and the weakening of the South Asian summer monsoon
- 15:45–16:00 EGU2012-5187
D. Folini, M. Frischknecht, and M. Wild
Recent changes in surface solar radiation and precipitation in India: sensitivity studies with ECHAM5-HAM
- 16:00–16:15 EGU2012-1999
J. Zhu, H. Liao, J. Li, and J. Feng
Impacts of interannual variation of the East Asian winter monsoon on aerosol concentrations over eastern China
- 16:15–16:30 EGU2012-2549
Y. Qian, M. Flanner, R. Leung, and W. Wang
Sensitivity studies on the impacts of Tibetan Plateau snowpack pollution on the Asian hydrological cycle and monsoon climate
- 16:30–16:45 EGU2012-3752
P. Knippertz, A. H. Fink, R. Schuster, J. Trentmann, J. M. Schrage, and C. Yorke
Ultra-Low Clouds over the Southern West African Monsoon Region
- 16:45–17:00 EGU2012-8256
A G Turner, B M Harris, and E J Highwood
Monsoon collapse following tropical super-volcanic eruptions

AS1.10 – The global monsoon system: variability and dynamics (co-listed) – Posters

Convener: J. Li | Co-Conveners: Dr Turner, A. Bracco, P. Terray

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Andrew Turner, Yun Qian and Jianping Li

- XY50 EGU2012-69
C. Lin, K. Yang, and J. Qin
Observed surface and upper-air wind speed changes over China since 1960
- XY51 EGU2012-1360
R. Mahmood and S. Li
Asian Black Carbon Influence on East Asian Summer Monsoons
- XY52 EGU2012-1398
X. Kuang
Regional Differences in the Seasonal Variation of the upper-tropospheric Jet
- XY53 EGU2012-1542
L. Yao-dong, S. Xiao-kang, Z. Shao-hong, and H. Liang
A Study on the Change of Precipitation Characteristics Before and After East Asian Summer Monsoon Onset
- XY54 EGU2012-1748
F. Zheng and J. Li
Impact of Preceding Boreal Autumn Antarctic Ozone on Spring Precipitation over South China
- XY55 EGU2012-3833
Z. Liantong
Interdecadal Change in SST Anomalies Associated with Winter Rainfall over South China
- XY56 EGU2012-3894
H. Hendon, **E. Lim**, and G. Liu
The role of air-sea interaction for prediction of Australian summer monsoon rainfall
- XY57 EGU2012-8994
Y. Song, Z. Li, and Y. Guan
Study on Precipitation Anomalies of North of China in April and Its relationship to Sea Surface Temperature Evolution
- XY58 EGU2012-8998
A G Turner and G Martin
The role of peninsular India in the South Asian monsoon

- XY59 EGU2012-10600
S. Shen and G. Leptoukh
Analysis of Regional Scale Vegetation Variations and the Asian Monsoon Climate
- XY60 EGU2012-10717
D. Rizou, H.A. Flocas, A. Bartzokas, and C.G. Helmis
The influence of Indian summer monsoon on the climatic regime of Eastern Mediterranean
- XY61 EGU2012-11886
MA. Reeve, Md. Abu Syed, PR. Hossain, G. Maainuddi, and N. Mamnun
Community level perceptions of the monsoon onset, withdrawal and climatic trends in Bangladesh
- XY62 EGU2012-13177
MA. Reeve and P-S. Chu
Monsoon definition discrepancies in Bangladesh
- XY63 EGU2012-13680
M.E. Silva and E.R.L. Silva
Climatic variability between SST and river discharge at Amazon region
- XY64 EGU2012-13950
H Yang, C Y Li, and J Pan
Cause and Anomalous Characteristics of the South China Sea Monsoon Trough Producing Heavy Rainfall in South China
- XY65 EGU2012-6768
A. Duan and M. Wang
Persistent Weakening Trend in the Spring Sensible Heat Source over the Tibetan Plateau and its Impact on the Asian Summer Monsoon
- XY66 EGU2012-7128
Y Luo, H Wang, R Zhang, W Qian, and Z Luo
Comparison of Rainfall Characteristics and Convective Properties of Monsoon Precipitation Systems over South China and Yangtze-and-Huai River Basin
- XY67 EGU2012-459
W. Yuan, R. Yu, M. Zhang, H. Chen, and J. Li
Subseasonal characteristics of diurnal variation in summer monsoon rainfall over central eastern China
- XY68 EGU2012-11200
J. Chen
Bimodal Variability of East Asian Summer Monsoon Viewed as Atmospheric Hydrological Cycle
- XY69 EGU2012-2301
T. Spengler and R.K. Smith
The dynamics of heat lows in a uniform flow
- XY70 EGU2012-8485
A. Hannachi
Isomap nonlinearity analysis and bimodality of the Asian summer monsoon
- XY71 EGU2012-3806
J. W. Kim
Changes in East Asian Winter Monsoon associated with the combined effect of ENSO and PDO
- XY72 EGU2012-3864
Z. Lin, R. Lu, and W. Zhou
Change in early-summer meridional teleconnection over the western North Pacific and East Asia around the late 1970s
- XY73 EGU2012-2590
H. Liu
Low-level Jets over Southeast China: Rainy Season Climatology During Summer 2003
- XY74 EGU2012-2383
W. Chen
Impacts of the duration of El Niño decaying phases on the western North Pacific anticyclone anomalies
- XY75 EGU2012-431
C. Wenhaji Ndomeni, C. Cagnazzo, S. Gualdi, S. Materia, A. Borrelli, and A. Navarra
Analysis of the Representation of the West-African Climate in a set of CMCC Climate Model Simulations
- XY76 EGU2012-1937
J. Feng and J. P. Li
Influence of El Niño Modoki on Spring Rainfall
- XY77 EGU2012-7811
S.-Y. Lee and **T.-Y. Koh**
Teleconnection between Australian winter temperature and Indian summer monsoon rainfall

AS1.14 – Mid-latitude Cyclones and Storms: Diagnostics of Observed and Future Trends, and related Impacts (co-listed) – Orals

Convener: G.C. Leckebusch | Co-Conveners: U. Ulbrich, J. G. Pinto

Room: 7

Chairperson: G.C. Leckebusch

- 10:30–10:45 EGU2012-7909
U. Neu and the IMILAST Team
Intercomparison of mid latitude storm diagnostics (IMILAST) - project update
- 10:45–11:00 EGU2012-10246
O. Krueger, F. Feser, F. Schenk, and R. Weisse
Inconsistencies between long-term trends in storminess derived from the 20CR reanalysis and observations
- 11:00–11:15 EGU2012-11820
R. Osinski, P. Lorenz, T. Kruschke, M. Voigt, G. C. Leckebusch, U. Ulbrich, T. Hoffherr, and E. Faust
Properties of European Winter Storms in the ECMWF Ensemble Prediction System
- 11:15–11:30 EGU2012-8921
J. Hanley and R. Caballero
The role of large-scale atmospheric flow and Rossby wave breaking in the evolution of extreme wind storms over Europe
- 11:30–11:45 EGU2012-5386
T.M. Trzeciak, P. Knippertz, and J.S.R. Owen
Assessing model uncertainties in climate projections of severe, mid-latitude windstorms using seamless approach
- 11:45–12:00 EGU2012-5127
M.-S. Déroche, M. Choux, F. Codron, and P. Yiou
Extreme European Winter Storm: Detection And Characterization Of Events Impacting The Insurance Industry

AS1.14 – Mid-latitude Cyclones and Storms: Diagnostics of Observed and Future Trends, and related Impacts (co-listed) – Posters

Convener: G.C. Leckebusch | Co-Conveners: U. Ulbrich, J. G. Pinto

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: U. Ulbrich and J.G. Pinto

- XY78 EGU2012-13193
F. Schenk and E. Zorita
Long-term trends in Northern European Storminess since 1850
- XY79 EGU2012-1768
C. Welker and O. Martius
Variability of cyclones over the North Atlantic and Europe since 1871
- XY80 EGU2012-2655
T. Spengler and A.P. Ballinger
Arctic Cyclone Climatology: Present and Future
- XY81 EGU2012-3241
Y. Kaspi and T. Schneider
The role of stationary eddies in shaping mid-latitude storm track dynamics.
- XY82 EGU2012-3446
K. M. Grise and S.-W. Son
Interannual and Intraseasonal Variability of North American Storm Tracks
- XY83 EGU2012-4568
J.S.R Owen, P. Knippertz, and T.M. Trzeciak
Forecast quality and predictability of severe extra-tropical cyclones in operational forecasts
- XY84 EGU2012-5230
S. Fu
The Impacts of Eastward displacement of Convective Systems Over Tibetan Plateau on the Formation of Southwest Vortex
- XY85 EGU2012-6588
M. Reale and **P. Lionello**
Association between cyclones and severe precipitation in the Mediterranean region as reproduced by different tracking algorithms - a contribution to the IMILAST project
- XY86 EGU2012-9036
J. G. Pinto and the IMILAST Team
Explosive cyclone developments in era-interim under consideration of multiple tracking approaches
- XY87 EGU2012-12837
S.F. Kew, M.A. Sprenger and the IMILAST Team
Trends in Northern Hemispheric Cyclone Diagnostics

- XY88 EGU2012-4258
L. Xia, F. Feser, M. Zahn, and H. von Storch
A Study of Quasi-millennial Extratropical Cyclone Activity Using Tracking and Clustering Methods
- XY89 EGU2012-5257
S. Pfahl and H. Wernli
Quantifying the relevance of cyclones for precipitation extremes
- XY90 EGU2012-8222
S. L. Gray and H. F. Dacre
Quantifying the sensitivity of North Atlantic cyclone development to atmospheric precursor fields
- XY91 EGU2012-7040
K.M. Nissen, U. Ulbrich, **G.C. Leckebusch**, and N. Becker
Changes in Vb cyclone frequency and rainfall under anthropogenic climate change
- XY92 EGU2012-12234
G.C. Leckebusch, X.L. Wang, S.F. Kew, J. Grieger, M. Schuster, U. Ulbrich, and S. Gulev and the IMILAST team
Trends and interannual variability of extra-tropical cyclones derived from different diagnostic methods
- XY93 EGU2012-8776
A. Comellas, **A. Parodi**, Z. Fuchs, and L. Molini
Saturation fraction and gross moist stability in severely precipitating systems in the midlatitude Mediterranean environment
- XY94 EGU2012-6837
A. Troccoli, F. Zambon, KI Hodges, and M Marani
Storm surge frequency reduction in Venice under climate change

CL0 – Open Session on Climate: Past, Present and Future – Orals

Convener: D.-D. Rousseau | Co-Conveners: M.-A. Sicre

Room: 16

Chairperson: A.M. Sicre - D.D. Rousseau

- 08:30–08:45 EGU2012-6235
W. Gosnold
Repeat Temperature Measurements in Boreholes may Quantify Climate Forcing
- 08:45–09:00 EGU2012-11618
N. Zeng
Biomass burial and storage to reduce atmospheric CO₂
- 09:00–09:15 EGU2012-1546
H. Xu, J. Li, and J. Feng
The Asymmetry Relationship between the Winter NAO and Precipitation in Southwest China
- 09:15–09:30 EGU2012-3058
R.R. Kuechler, B. Beckmann, L. Dupont, and E. Schefuß
An apparent contradiction in plant-wax-specific isotopes: How can more rain favor aridity-adapted plants?
- 09:30–09:45 EGU2012-3247
U. Heikkilä and A. M. Smith
Production rate and climate influences on the variability of ¹⁰Be deposition in Greenland and in Antarctica
- 09:45–10:00 EGU2012-7789
N. Rimbu, G. Lohmann, G. König-Langlo, C. Necula, and M. Ionita
Intraseasonal to interannual oscillations of Antarctic climate as recorded at Neumayer polar station

COFFEE BREAK

Chairperson: D.D. Rousseau - A.M. Sicre

- 10:30–10:45 EGU2012-4465
M. Bar-Matthews
Greening of the Sahara - a paleo perspective on the history of water in the Middle East and North Africa
- 10:45–11:00 EGU2012-11777
F. Parrenin
Timing of Antarctic temperature and CO₂ Changes across the last deglaciation
- 11:00–11:15 EGU2012-1095
P. Morozova
Variations climate of East-European Plain and Caspian sea level during last 20000 years (on the basis of numerical simulations within the Paleoclimate Modeling Intercomparison Project)

- 11:15–11:30 EGU2012-7706
I. Hessler, L. Dupont, D. Handiani, S. Steinke, J. Groeneveld, U. Merkel, and A. Paul
 Have abrupt climate variations of the last glacial possibly been muted in the south-west African tropics by counteracting mechanisms?
- 11:30–11:45 EGU2012-1570
A.P. Karageorgis, E.K. Tripanas, T.D. Kanellopoulos, E. Koutsopoulou, I. Panagiotopoulos, W.R. Bryant, and N.C. Slowey
 The geochemical and sedimentary imprint on the continental margin of the NW Gulf of Mexico during the last 20 cal ka: glacial melt-water floods and geochemical proxies
- 11:45–12:00 EGU2012-12518
B. Parkes, A. Gadain, and J Latham
 Effects of marine cloud brightening on polar regions and the meridional heat flux

CL0 – Open Session on Climate: Past, Present and Future – Posters

Convener: D.-D. Rousseau | Co-Conveners: M.-A. Sicre

Hall Z | Display Time 08:00–19:30

Author in Attendance: 15:30–17:00

Chairperson: A.M. Sicre - D.D. Rousseau

- Z204 EGU2012-4276
K. Chromá, R. Brázdil, H. Valášek, and L. Dolák
 Hydrometeorological extremes and their impacts derived from taxation records for south-eastern Moravia (Czech Republic) in the period 1751-1900
- Z205 EGU2012-7417
A.-I. Partanen, A. Laakso, H. Kokkola, and H. Korhonen
 Climatic effects of sea spray geoengineering simulated by ECHAM5 model
- Z206 EGU2012-7007
J. Piskozub and T. Neumann
 Dim waters: side effects of geoengineering using ocean albedo modification
- Z207 EGU2012-8513
 T. Kruger and **P. Renforth**
 Engineering challenges of ocean alkalinity enhancement
- Z208 EGU2012-5135
P. Köhler, J. Abrams, C. Völker, D.A. Wolf-Gladrow, and J. Hartmann
 Impact of geoengineering with olivine dissolution on the carbon cycle and marine biology
- Z209 EGU2012-4966
P. Köhler, C. Völker, X. Zhang, G. Knorr, and G. Lohmann
 Combined impact of shifts in Southern Ocean westerlies and Antarctic sea ice during LGM on atmospheric CO₂
- Z210 EGU2012-1143
S. Sarkar and A. K. Gupta
 Century scale climatic rhythms in the equatorial Indian Ocean during the late Quaternary: Faunal and geochemical proxies from the Maldivian Archipelago
- Z211 EGU2012-3880
B.-K. Khim, J. Heo, C. Shimada, M. Uchida, K. Ikehara, and R. Tada
 Surface-water exchange between the East Sea/Japan Sea and neighboring seas during the last glacial and deglacial periods: geochemical and diatom signatures
- Z212 EGU2012-6681
M. Escorza-Reyes, L. Pérez-Cruz, J. Urrutia-Fucugauchi, and D. Salas-de-León
 Oceanographic and climatic record for the last 18 ka BP in marine sediments from Pescadero Basin, Gulf of California
- Z213 EGU2012-7547
J. Pecho, P. Faško, V. Bližňák, P. Kajaba, J. Košálová, O. Bochníček, and L. Lešková
 Long-term variability and changes in thunderstorm induced extreme precipitation in Slovakia over 1951-2010
- Z214 EGU2012-8016
M. Juckes, C. Pascoe, E. Guilyardi, B.N. Lawrence, and E. Da Costa
 Exploring the CMIP5 multi-model archive with structured meta-data
- Z215 EGU2012-10463
A. Stickler, R. Allan, M. A. Valente, B. Tinz, and S. Brönnimann
 The Data Rescue @ Home Project
- Z216 EGU2012-2926
 S. S. Drijfhout, G.-J. van Oldenborgh, and **A. A. Cimadoribus**
 Footprint of the AMOC in future temperature change as simulated by CMIP3 and CMIP5 model ensembles.

- Z217 EGU2012-11972
J. Nagy, J. Bartholy, R. Pongracz, and L. Hufnagel
Analysis of regional climate change impacts on European terrestrial wild mammal's living territory in the 21st century based on ENSEMBLES simulations
- Z218 EGU2012-1438
P. Berrisford, P. Kallberg, S. Kobayashi, D. Dee, S. Uppala, A. J. Simmons, P. Poli, and H. Sato
The Atmospheric Energy and Hydrological Cycles in ECMWF Reanalyses
- Z219 EGU2012-9209
S. Jung and D. Kroon
Quantifying rates of change in ocean conditions with implications for timing of sea level change
- Z220 EGU2012-12823
J Latham, B Parkes, A. Gadian, and S Salter
Controlled Hurricane Weakening Via Marine Cloud Brightening
- Z221 EGU2012-3835
T. Khodzher
Cryolithic zone and Arctic shelf under conditions of climate changes as exemplified by the Kara Sea basin
- Z222 EGU2012-12581
J. Weckström, A. Korhola, M. Väiranta, H. Seppä, M. Luoto, E.-S. Tuittila, M. Leppäranta, K. Kahilainen, J. Saarinen, and H. Heikkinen
Climate change on arctic environment, ecosystem services and society (CLICHE)
- Z223 EGU2012-1959
A. Stickler, S. Brönnimann, M. A. Valente, A. Sterin, S. Jourdain, J. Guzman, R. Allan, and D. Dee
Digitisation of Historical Observations for ERA-CLIM
- Z224 EGU2012-12334
J. J. Barrott, C. C. Day, R. N. E. Barton, A. Bouzouggar, and G. M. Henderson
Speleothem Reconstruction of Moroccan Climate: from the Strait to the Sahara

CL1.1 – Progress in understanding Neoproterozoic pan-glaciations (potential Snowball Earth episodes) (posters only) – Posters

Convener: A. Voigt | Co-Conveners: D.S. Abbot, T. Bosak, F. Macdonald, Y. Donnadieu

Hall Z | Display Time 08:00–19:30

Author in Attendance: 13:30–15:00

Chairperson: Aiko Voigt, Dorian S. Abbot

- Z1 EGU2012-125
D.S. Abbot, A. Voigt, M. Branson, D. Pollard, D. Koll, R.T. Pierrehumbert, G. Le Hir, D. Randall, and Y. Donnadieu
SNOWMIP2: Comparing simulation of the deep Snowball and the nearly deglaciating Snowball among GCMs
- Z2 EGU2012-960
A. Voigt and D. S. Abbot
On the stability of low-latitude sea-ice edges in a comprehensive coupled climate model
- Z3 EGU2012-1263
F.A. Macdonald, A.D. Rooney, F.O. Dudas, and D Selby
Osmium and Strontium Isotope Tests of a Sturtian-Rapitan Snowball Earth
- Z4 EGU2012-1571
J. Yang and Y. Hu
Supergreenhouse Warming during the Snowball Earth Aftermath
- Z5 EGU2012-4984
A.T. Brasier, A.P. Martin, A.R. Prave, V.A. Melezhik, D. Condon, and A.E. Fallick
Carbon isotopes of ICDP FAR-DEEP Hole 3A: alteration or a signal from atmospheric methane oxidation at the onset of the first Huronian glaciation?
- Z6 EGU2012-6633
A.J. Campbell, **E.D. Waddington**, and S.G. Warren
Possible refugium for surface life on Snowball Earth in a nearly-enclosed sea
- Z7 EGU2012-6686
B. Light, T. Black, R. Carns, R. Brandt, R. Dadic, and **S. Warren**
Albedo of cold sea ice with precipitated salt on the tropical ocean of Snowball Earth: field measurements and laboratory experiments
- Z8 EGU2012-6756
R. Dadic, P. Mullen, M. Schneebeli, R.E. Brandt, M. Fitzpatrick, R. Carns, and S.G. Warren
Albedo of bare ice near the Trans-Antarctic Mountains as an analogue of sea-glaciers on the tropical ocean of Snowball Earth
- Z9 EGU2012-9313
R. Boyle
A mechanism for Snowball Earth triggering animal evolution

- Z10 EGU2012-9318
I. Gyollai, F. Popp, D. Mader, and Ch. Koeberl
 Diagenesis, weathering and paleoenvironmental conditions from postglacial diamictite/cap carbonate transition layers of the Otavi Group (NW-Namibia)
- Z11 EGU2012-10277
S.A. Kasemann, A.R. Prave, A.E. Fallick, and K.-H. Hoffmann
 Calcium isotopes and environmental conditions in the aftermath of a Cryogenian glaciation
- Z12 EGU2012-11137
Y. Ashkenazy, H. Gildor, M. Losch, D. Schrag, and E. Tziperman
 Ocean circulation under snowball earth conditions
- Z13 EGU2012-12481
M. Macouin, R.I.F. Trindade, M. Ader, E. Font, L.C. Vieira, J.J. Alvaro, G. Jiang, B. Pokrovsky, and P. Affaton
 The Rock Magnetic Signature of the Neoproterozoic Glaciation's Aftermath

CL1.2 – Modelling paleoclimates from the Cretaceous to the Holocene: learning from numerical experiments and model-data comparisons – Orals

Convener: M. Kageyama | Co-Conveners: D. Lunt, A Paul, M. Kucera

Room: 15

Chairperson: Masa Kageyama

- 15:30–15:45 EGU2012-7601
J. Blöhdorn, W. Park, M. Latif, and S. Flögel
 Mid-Cretaceous Ocean Circulation in the Kiel Climate Model
- 15:45–16:00 EGU2012-4743
R. Caballero, M. Huber, and J. Hanley
 Transition to a climate state qualitatively different from modern in NCAR CCSM simulations of the Eocene
- 16:00–16:15 EGU2012-10692
N. Sagoo, PJ Valdes, and R Flecker
 Early Eocene perturbed parameter simulations: multiple methods of proxy-model comparison
- 16:15–16:30 EGU2012-3292
U. Salzmann, A.M. Dolan, A.M. Haywood, A. Abe-Ouchi, F. Bragg, W.-L. Chan, M.A. Chandler, D.J. Lunt, B. Otto-Bliesner, and N. Rosenbloom
 Assessing data and model uncertainties in modelling Pliocene warm terrestrial climates
- 16:30–16:45 EGU2012-6121
G. Jung, M. Prange, and M. Schulz
 Mountain uplift and the evolution of the African rainbelt in the late Neogene
- 16:45–17:00 EGU2012-9231
T. Kleinen and V. Brovkin
 The carbon cycle during recent interglacials

CL1.2 – Modelling paleoclimates from the Cretaceous to the Holocene: learning from numerical experiments and model-data comparisons – Posters

Convener: M. Kageyama | Co-Conveners: D. Lunt, A Paul, M. Kucera

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- Z14 EGU2012-7117
J. D. Annan and J. C. Hargreaves
 How cold was the Last Glacial Maximum?
- Z15 EGU2012-13101
M. Kageyama, P. Braconnot, L. Bopp, A. Caubel, M.-A. Foujols, E. Guilyardi, J. Lloyd, F. Lombard, V. Mariotti, O. Marti, T. Roy, and M.-N. Woillez
 Mid-Holocene and Last Glacial Maximum climate simulations with the IPSL model: new features with the IPSLCM-5A version
- Z16 EGU2012-6857
J. C. Hargreaves, J.D. Annan, R. Ohgaito, A. Paul, and P. Bartlein
 Reliability and Skill of Climate Models.
- Z17 EGU2012-13342
T.L. Edwards, J.C. Rougier, and M. Collins
 Assimilating palaeoclimate reconstructions into GCM simulations for climates of the Mid-Holocene and Last Glacial Maximum

- Z18 EGU2012-5982
J.-Y. Peterschmitt, S. Denvil, M. Morgan, A. Bhardwaj and the PMIP 3 Participants Team
The PMIP 3 Database
- Z19 EGU2012-12803
A Abe-Ouchi, R Ohgaito, A Oka, M Chikamoto, JC Hargreaves, M Yoshimori, and A Timmerman
Why climate models often fail to reproduce the Atlantic Meridional Overturning Circulation at the Last Glacial Maximum
- Z20 EGU2012-12520
D.M. Roche and M. Kageyama
PMIP-3 Last Glacial Maximum : sensitivity to ice-sheets boundary conditions in the iLOVECLIM climate model
- Z21 EGU2012-12610
I. Cvijanovic, J. C. H. Chiang, P. L. Langen, and E. Kaas
Global energy budget changes and the role of tropical SSTs in the southward ITCZ shifts
- Z22 EGU2012-2857
R. Banderas, J. Álvarez-Solas, and M. Montoya
Glacial abrupt climate change as a result of internal oscillations
- Z23 EGU2012-9518
M.-N. Woillez, M. Kageyama, and G. Krinner
Simulating the impact of abrupt AMOC changes on vegetation and carbon stocks with the ORCHIDEE/IPSL models
- Z24 EGU2012-9871
A M De Boer, A J Watson, N R Edwards, and K I C Oliver
A multi-variable box model approach to the ocean carbon cycle during the last glacial
- Z25 EGU2012-13121
N. Herold, Q.Z. Yin, M.P. Karami, and A. Berger
Modelling the warm interglacials: analogues of MIS1
- Z26 EGU2012-12530
C. Simmons, L.A. Mysak, and H.D. Matthews
The role of Antarctic Ice Shelves in Holocene CO₂ concentrations: A study using the University of Victoria Earth System Climate Model
- Z27 EGU2012-13382
B. Risebrobakken, C. Andersson, E. L. McClymont, and L. Jensen
The Nordic Seas in the Pliocene: A hot spot or not?
- Z28 EGU2012-10653
A.M. Haywood, D.J. Hill, A.M. Dolan, U. Salzmann, H.J. Dowsett, M.M. Robinson, B. Otto-Bliesner, N. Rosenbloom, M.A. Chandler, D.J. Lunt, S.J. Pickering, and PlioMIP Participants
Large scale features of the Pliocene climate: Results from the PlioMIP experiments
- Z29 EGU2012-6436
M. Willeit and A. Ganopolski
On the effect of orbital forcing on mid-Pliocene vegetation: results from an Earth system model of intermediate complexity.
- Z30 EGU2012-9269
C. Contoux, A. Jost, P. Sepulchre, and G. Ramstein
Modelling the mid-Pliocene Warm Period with the IPSL GCM: contribution to PlioMIP and feedback mechanisms from the presence of mega-lakes
- Z31 EGU2012-9358
G. Knorr, M. Butzin, G. Lohmann, and A. Micheels
A new mechanism for the global temperature rebound during the Mid Miocene climate transition
- Z32 EGU2012-6119
A. Goldner, M. Huber, and R. Caballero
Is Antarctic Glaciation an Important Component of Earth System Sensitivity?
- Z33 EGU2012-11650
DA Carozza and **LA Mysak**
Methane and environmental change during the Paleocene-Eocene thermal maximum (PETM): Modeling the PETM as a multistage event
- Z34 EGU2012-12084
J. Buzan, A. Goldner, and M. Huber
Comparison of heat stress metrics with modern, future, and past greenhouse climates

CL1.8 – Paleoenvironmental, tectonic and human evolution across the Levant-Anatolia Regions – Orals

Convener: F. Anselmetti | Co-Conveners: T. Litt, M. Stein

Room: 13

Chairperson: Thomas Litt

- 13:30–13:45 EGU2012-4505
T. Felis, N. Rambu, S. Al-Rousan, H. Kuhnert, G. Lohmann, M. Kölling, and J. Pätzold
 Sub-seasonally resolved coral records of northern Red Sea - eastern Mediterranean climate during the Holocene and the last interglacial
- 13:45–14:00 EGU2012-8794
D. Fleitmann, H. Cheng, R.L. Edwards, S. Badertscher, and O. Tüysüz
 Late to middle Pleistocene climate variability recorded in stalagmites from Sofular Cave, Northern Turkey
- 14:00–14:15 EGU2012-3611
M. Stein and Y. Kushnir
 Abrupt aridities in the Levant-Sahel linked with solar activities
- 14:15–14:30 EGU2012-4526
M. Stockhecke, F. S. Anselmetti, M. Sturm, and the PALEOVAN scientific party
 Sediments of Lake Van - a high-resolution archive of changing climate, volcanic events and seismic activity in Eastern Anatolia for the last 500'000 yrs
- 14:30–14:45 EGU2012-7875
N. Pickarski, G. Heumann, and T. Litt
 Long continental pollen record of the last ca. 500 ka in eastern Anatolia - First palynological results from Lake Van cores obtained in 2010
- 14:45–15:00 EGU2012-3131
K.M. Grant, E.J. Rohling, C. Bronk Ramsey, M. Bar-Matthews, C. Satow, M. Medina-Elizalde, and A.P. Roberts
 New chronology for Red Sea sea-level record reveals phase relationship between changes in polar climate and ice volume

CL1.8 – Paleoenvironmental, tectonic and human evolution across the Levant-Anatolia Regions – Posters

Convener: F. Anselmetti | Co-Conveners: T. Litt, M. Stein

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Moti Stein

- Z35 EGU2012-503
D. Cukur, S. Krastel, D. Winkelmann, and T. Litt
 Structural and stratigraphic analysis of the Lake Van, Eastern Turkey: An integration of high resolution seismic and drilling data
- Z36 EGU2012-626
E. Damcı, M.N Çağatay, S. Krastel, N. Öretmen, D. Cukur, U.B. Ülgen, Z. Erdem, T. Litt, F.S. Anselmetti, and K.K. Eriş
 Lake Level Changes of Lake Van over the Last 400 ka: Evidence from Deltas in Seismic Reflection Data and ICDP Drilling
- Z37 EGU2012-5874
M. Sumita, H.-U. Schmincke, and Paleovan scientific team
 Temporal framework of Lake Van sediments provided by single crystal $^{40}\text{Ar}/^{39}\text{Ar}$ dating of tephra layers
- Z38 EGU2012-5954
M. Sumita, H.-U. Schmincke, and Paleovan scientific team
 Volcanic, tectonic and climate forcing of the system Nemrut-Süphan-Lake Van: dating Late Glacial lake level changes of Lake Van more precisely, tectonic uplift of lake sediments and paleoclimate proxies derived from land deposits
- Z39 EGU2012-6402
O. Kwiecien, M. Stockhecke, G. H. Haug, and R. Kipfer
 Glacial/interglacial and MIS3 climate variability recorded in Lake Van, eastern Anatolia
- Z40 EGU2012-4881
H. Baumgarten, T. Wonik, and S. Hunze
 Paleogeophysical characterization of a climate archive based on downhole logging in the ICDP project PALEOVAN
- Z41 EGU2012-8666
M-E Randlett, M. Stockhecke, O. Kwiecien, and C. Schubert
 Biomarker analysis in 500 kyrs sediment record of Lake Van - potential implications for paleoclimate in eastern Anatolia
- Z42 EGU2012-4681
Y. Tomonaga, M.S. Brennwald, and R. Kipfer
 Noble gases in the sediment pore water as proxies for physical transport processes and past environmental conditions in Lake Van (Turkey)

- Z43 EGU2012-6276
F. Barlas Simsek and M.N. Cagatay
Late Holocene High Resolution Multi-Proxy Climate and Environmental Records From Lake Van, Eastern Turkey
- Z44 EGU2012-5143
I. Neugebauer, A. Brauer, M.J. Schwab, U. Frank, and P. Dulski
Micro-facies analyses of late Holocene sediments from the Ein Gedi site (Dead Sea)
- Z45 EGU2012-3652
A. Torfstein, S.L. Goldstein, M. Stein, and Y. Enzel
Abrupt changes in Levant precipitation during the last glacial from Dead Sea lake levels
- Z46 EGU2012-7185
E. Eckmeier, R. Yeshurun, M. Weinstein-Evron, E. Mintz, and E. Boaretto
Radiocarbon dating of the Early Natufian at el-Wad Terrace, Mount Carmel, Israel
- Z47 EGU2012-7876
V. Schiebel, T. Litt, N. Nowaczyk, M. Stein, and V. Wennrich
A new 10,000 year pollen record from Lake Kinneret (Israel) - first results
- Z48 EGU2012-4110
H. von Suchodoletz, D. Faust, and M. Menz
The Late Quaternary fluvial dynamics of the Marneuli depression in eastern Georgia
- Z49 EGU2012-9131
D Palchan, M Stein, Y Erel, A Almogi-Labin, and S.L. Goldstein
Fine detritus material in Red Sea cores as indicator of dust transport and regional climate conditions during MIS6/5 and MIS2/1 transitions
- Z50 EGU2012-11825
R. Reber, N. Akçar, V. Yavuz, D. Tikhomirov, C. Vockenhuber, P.W. Kubik, and C. Schlüchter
Paleoclimate in north-east Anatolia during the Quaternary deduced from glacial archives
- Z51 EGU2012-10267
B. Lazar, M. Stein, A. Agnon, and Y. Shaked
Freshwater on the route of hominids "out of Africa" during the last interglacial revealed by U-Th in northern Red Sea fossil reefs

CL1.14 – Palaeoclimate records in lakes – Orals

Convener: N. Fagel | Co-Conveners: M.-F. Loutre

Room: 13

Chairperson: Nathalie Fagel

- 15:30–15:45 EGU2012-12536
N.D. Stansell, D.T. Rodbell, B.G. Mark, and C.M. Sedlak
A ~13,000 year history of glacial variability in the tropical Andes recorded in lake sediments from the Peruvian Andes
- 15:45–16:00 EGU2012-5785
M. Czymzik, A. Brauer, P. Dulski, and U. von Grafenstein
Solar modulation of Mid- to Late Holocene flood frequency in detrital layers from varved sediments of Lake Ammersee (southern Germany)
- 16:00–16:15 EGU2012-5523
M. Mathis, P. Sorrel, S. Klotz, and H. Oberhänsli
Holocene climate variability in lake Sonkul sediments (Kyrgyzstan, Central Asia) based on vegetation changes
- 16:15–16:30 EGU2012-2482
H. Niemann, A. Stadnitskaia, S. B. Wirth, A. Gilli, F. S. Anselmetti, J. S. Sinninghe Damsté, S. Schouten, E. C. Hopmans, and M. F. Lehmann
Bacterial GDGTs in Holocene sediments and catchment soils of a high-alpine lake: application of the MBT/CBT-paleothermometer
- 16:30–16:45 EGU2012-2486
S.B. Wirth, L. Glur, A. Gilli, and F.S. Anselmetti
FloodAlp! - The Holocene flood history of the Central Alps reconstructed from multiple lacustrine sediment records
- 16:45–17:00 EGU2012-2507
E. Dietze, B. Wünnemann, K. Hartmann, B. Diekmann, S. Opitz, M. Paprotzki, M. Runge, S. Yang, and G. Lockot
Windows into the past: On-shore high-stand sediments from lake Donggi Cona, NE Tibetan Plateau

CL1.14 – Palaeoclimate records in lakes – Posters

Convener: N. Fagel | Co-Conveners: M.-F. Loutre

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Marie-France Loutre

- Z52 EGU2012-311
N. Ogretmen, M.N. Cagatay and the PaleoVan Scientific Team
Paleoenvironmental Changes In Lake Van During the Late Glacial-Holocene
- Z53 EGU2012-392
I.S. Kirichenko, S.M. Zhmodik, N.A. Nemirovskaya, D.K. Belyanin, T.N. Svetlyakova, O.M. Khlistov, A.S. Zhmodik, and N.S. Karmanov
Micromapping of uranium and phosphorus in the lake Baikal sediments (Academicheskiiy Ridge, St8; St11)
- Z54 EGU2012-329
O.N. Tumanov, L.B. Nazarova, L.A. Frolova, and L.A. Pestryakova
Benthic bioindicators from the lakes of Northern Yakutia (Siberia, Russia) in paleoclimatic research
- Z55 EGU2012-1493
H. Reddad, I. Etabaai, H. Benhardouze, O. Benhardouz, M. Taeib, F. Thevenon, and B. Damnati
Paleofire activity in North Africa during the last 21 ka inferred from a charcoal record from lake Ifrah (Middle atlas - Morocco): climatic implications.
- Z56 EGU2012-7344
E. Støren and S.O. Dahl
Holocene glacier fluctuations recorded in eastern Jotunheimen, southern Norway
- Z57 EGU2012-10928
H. Guyard, G. St-Onge, R. Pienitz, P. Francus, B. Zolitschka, G.K.C. Clarke, S. Hausmann, V.P. Salonen, P. Lajeunesse, G. Ledoux, and M. Lamothe
Dynamics and evolution of subglacial to postglacial environments inferred from Pingualuit Crater Lake sediments (Nunavik, Canada)
- Z58 EGU2012-13979
V. Sacré, **N. Fagel**, S. Schmidt, D. Alvarez, A. Araneda, and R. Urrutia
Last millenium environmental changes in Lake Bertrand sediments, Chilean Patagonia
- Z59 EGU2012-7602
I. Kalugin, A. Darin, G. Tretyakov, D. Rogozin, S. Khromykh, L. Kholodova, and N. Maksimova
Geochemical anomalies in carbonate lacustrine sediments as seasonal and centennial environmental proxy for continental climate conditions in South Siberia during the last 2450 yrs.
- Z60 EGU2012-12280
G.J. Tye, J. Sherriff, A.P. Palmer, I. Candy, and D.C. Schreve
The expression of MIS 11 palaeoclimate in a lacustrine record: An annually resolved archive from Marks Tey, eastern England
- Z61 EGU2012-7519
N. Höbig, E. Martinelli, S. Motella, A.M. Michetti, F. Livio, W. Tinner, K. Reicherter, and L. Castelletti
Late Glacial to Holocene environmental variabilities: A new multi-proxy paleolimnological study of sedimentary sequences from Como (northern Italy)
- Z62 EGU2012-7139
M. Sarnthein and C. Spötl
Speculations on the spatial setting and temporal evolution of a fjord-style lake
- Z63 EGU2012-5108
T. A. Neubauer, O. Mandic, M. Harzhauser, and H. Hrvatovi?
The Middle Miocene lacustrine mollusc fauna of the Kupres Basin: palaeobiogeography, palaeoecology, and taxonomic implications (Dinaride Lake System, Bosnia and Herzegovina)
- Z64 EGU2012-6174
N. Boesche and M. Trauth
Provenance Analysis of Surface Sediments in the Chew Bahir Basin (Ethiopia) using Remote Sensing Data
- Z65 EGU2012-12233
E. Støren, Ø. Paasche, S.O. Dahl, A. Nesje, and E. Kolstad
Identifying flood deposits in lake sediments : Changing frequencies and potential links to long-term climate change
- Z66 EGU2012-11681
F. Arnaud, S. Révillon, C. Giguet-Covex, B. Wilhelm, J.-P. Jenny, M. Magny, U. Von Grafenstein, J. Poulénard, and E. Ployon
What does a lake sediment terrigenous input record actually tell us? Tentative answers based on a multi-lakes source-to-sink approach in the 4000 km² Arve-Rhône alpine catchment

CL1.15 – Temperature observations in the subsurface: contributions to climate sciences, soil sciences, permafrost, glaciology, hydrology, and heat flow studies – Orals

Convener: V. Rath | Co-Conveners: J. Noetzi, F. González-Rouco, J.S. Safanda

Room: 13

Chairperson: Jeanette Noetzli

- 08:30–08:45 EGU2012-9221
S. Gruber
Decreasing sensitivity of permafrost temperature to environmental change challenges monitoring and data interpretation
- 08:45–09:00 EGU2012-7686
D. Kitover, H. Renssen, R. van Balen, J. Vandenberghe, and D.M. Roche
Simulating permafrost evolution in Eurasia during the last deglaciation
- 09:00–09:15 EGU2012-3943
M. N. Gooseff, S. E. Godsey, J. E. Barrett, and A. Lewcowicz
The Influence of Snow, Water Bodies, and Permafrost Degradation on Shallow Soil Energy and Hydrology in the Arctic and Antarctic
- 09:15–09:30 EGU2012-6375
S.C. Steele-Dunne, N. van de Giesen, J.H.A.M. Jansen, C. Hatch, J. Selker, S. Tyler, T. Ochsner, and M.H. Cosh
Distributed Temperature Sensing as a tool for monitoring heat transfer processes in the shallow subsurface
- 09:30–09:45 EGU2012-795
A. Markert, S. Trinks, M Facklam, and G. Wessolek
A new method using evaporation for high-resolution measurements of soil thermal conductivity at changing water contents
- 09:45–10:00 EGU2012-1835
A. Rabinovich, G. Dagan, and T. Miloh
Underground heat conduction near a spherical inhomogeneity: theory and applications

COFFEE BREAK

Chairperson: J.F. González Rouco

- 10:30–10:45 EGU2012-14423
V. Cermák
Air - Ground - Bedrock Temperature Coupling, Its Monitoring at Borehole Climate Observatories
- 10:45–11:00 EGU2012-6252
J. Majorowicz, J. Šafanda, W. Gosnold, and M. Unsworth
Subsurface temperature signature of a large Pleistocene - Holocene surface warming in the North Alberta, Canada
- 11:00–11:15 EGU2012-1423
F. Lucazeau and F. Rolandone
Heat-Flow and Subsurface Temperature History in Eastern Senegal (West Africa)
- 11:15–11:30 EGU2012-13996
V. Bense
Hydrogeological analysis using heat as a tracer in a variety of geological settings
- 11:30–11:45 EGU2012-12137
K. Zhu, P. Bayer, and P. Blum
Urban heat fluxes in the subsurface of Cologne, Germany
- 11:45–12:00 EGU2012-13383
M. Dłuzewski, **E. Zmudzka**, D. Woronko, and K. Biejat
The influence of barchan shape on the moisture and temperature of the dune sand and the diversity of local climate

CL1.15 – Temperature observations in the subsurface: contributions to climate sciences, soil sciences, permafrost, glaciology, hydrology, and heat flow studies – Posters

Convener: V. Rath | Co-Conveners: J. Noetzli, F. González-Rouco, J.S. Safanda

Hall Z | Display Time 08:00–19:30

Author in Attendance: 15:30–17:00

Chairperson: Jan Safanda

- Z67 EGU2012-4470
S. Schneider, M. Hoelzle, and C. Hauck
Influence of subsurface heterogeneity on observed borehole temperatures at a mountain permafrost site in the Upper Engadine, Swiss Alps

- Z68 EGU2012-2859
P. Dedecek, J. Šafanda, and D. Rajver
Detection and Quantification of Local Anthropogenic and Regional Climatic Transient Signals in Temperature Logs from Czechia and Slovenia
- Z69 EGU2012-7382
V. Cermák, J. Šafanda, P. Dedecek, and M. Kresl
Round-Air Temperature Coupling: Results of Long-Term Temperature-Time Monitoring at the Experimental Borehole Site at Prague (The Czech Republic)
- Z70 EGU2012-6475
V. Rath
GUMNET - A new subsurface observatory in the Guadarrama Mountains, Spain
- Z71 EGU2012-2754
V. Rath, J. E. Smerdon, J. F. González-Rouco, and H. Beltrami
Which boreholes do we need to resolve the Common Era in borehole paleoclimatology?
- Z72 EGU2012-2870
G. Bouron, D. Mimoun, and D. Graillot
Analysis of mechanisms and effects of snow-melting on the groundwater recharge downstream mountainous watershed in a climate-changing context. Example: the Lignon du Forez watershed, Massif Central, France.
- Z73 EGU2012-7609
D. Demezhko, A. Kotlovanova, and **Yu. Khachay**
Geothermal evidences of pre-industrial ground temperature changes in the Urals and Eastern Europe
- Z74 EGU2012-3707
N. Andrés, D. Palacios, J.J. Zamorano, C.E. Mendoza-Margáin, and L. Vázquez-Selem
Ten years monitoring ground temperature at Iztaccíhuatl Volcano (México).
- Z75 EGU2012-3716
N. Andrés, D. Palacios, J.J. Zamorano, C.E. Mendoza-Margáin, and L. Vázquez-Selem
Deglaciation, ground temperature and volcanic activity in Popocatepetl (México).
- Z76 EGU2012-6493
L.M. Tanarro, D. Palacios, A. Gómez-Ortiz, and F. Salvador-Franch
Snow cover and ground surface temperature on a talus slope affected by mass movements. Veleta cirque, Sierra Nevada, Spain
- Z77 EGU2012-9346
A. Kellerer-Pirklbauer, G. Winkler, and M. Pauritsch
Widespread evidences of hoarfrost formation at a rock glacier in the Seckauer Tauern, Austria
- Z78 EGU2012-11953
E. Santolaria and V. Rath
Parametrizations of land-atmosphere energy and mass transfer: the role of the snow layer and the freeze/thaw cycle
- Z79 EGU2012-12336
M. B. Stevens, H. Beltrami, and J. F. Gonzalez-Rouco
New metrics for permafrost model validation
- Z80 EGU2012-11182
D. Mottaghy, **V. Rath**, and G. Schwamborn
The influence short and long term climate changes on the temperature field at the Lake El'gygytgyn site: results from borehole data and modelling
- Z81 EGU2012-3160
G. Matharoo, H. Beltrami, V. Rath, and L. Tarasov
Effects of long-term history on borehole paleoclimatology
- Z82 EGU2012-12874
V. Rath, J. Alvarez-Solas, M. Montoya, and C. Ritz
Can boreholes help to constrain the dynamics of the Laurentide ice sheet on the millennial time-scale during last glacial period?
- Z83 EGU2012-13109
J. Noetzli, P. Deline, M. Phillips, and A. von Poschinger
Characteristics of the thermal regime in steep bedrock permafrost in the European Alps described by borehole temperatures and heat conduction modeling
- Z84 EGU2012-12981
M. Keuschnig, I. Hartmeyer, A. Schmidjell, and L. Schrott
The adaptation of iButtons® for near-surface rock temperature and thermal offset measurements in a high alpine environment - Instrumentation and first results, Kitzsteinhorn (3203 m), Hohe Tauern, Austria

CL5.1/GM2.5 – Advances in Quaternary Geochronology (co-organized) – Orals

Convener: T. Kiefer | Co-Conveners: G. Duller, I. Hajdas, A. Lang, F. Parrenin, EW Wolff

Room: 15

Chairperson: n.n.

- 08:30–08:45 EGU2012-12790
S. Ivy-Ochs, H. Kerschner, and C. Schlüchter
 Timing of deglaciation in the northern Alps based on cosmogenic nuclide data
- 08:45–09:00 EGU2012-12634
F. von Blanckenburg, J. Bouchez, H. Wittmann, and N. Dannhaus
 The Beryllium-10(meteoritic)/ Beryllium-9 ratio as a new tracer of weathering and erosion rates
- 09:00–09:15 EGU2012-4854
P. J. Applegate and N. Kirchner
 Using cosmogenic exposure dates to evaluate modeled Greenland Ice Sheet behavior
- 09:15–09:30 EGU2012-3821
R. Pickering
 Re-arranging the family tree: the new role of U-Pb dating flowstones
- 09:30–09:45 EGU2012-10671
J. Wallinga, J. Den Ouden, A.C. Cunningham, P. Copini, A.J. Versendaal, U.G.W. Sass-Klaassen, G. Bos, A.M.A.J. Beerens, and M.J.P.M. Riksen
 Bootstrap-Bayesian OSL approach for poorly-bleached sediment sequences tested with dendrochronological age constraints
- 09:45–10:00 EGU2012-3732
RC Chiverrell
 Bayesian modelling of geomorphic time series: collapse of the marine portion of the Irish Sea Ice Stream

COFFEE BREAK

Chairperson: n.n.

- 10:30–10:45 EGU2012-13984
S. P. Lund
 Paleomagnetic Secular Variation as a Regional- to Global-Scale Chronostratigraphic Tool for Paleoclimate Studies
- 10:45–11:00 EGU2012-11956
S. Ólafsdóttir, Á. Geirsdóttir, G.H. Miller, and J.S. Stoner
 Improved Land-Sea Correlations in Iceland Based on Paleomagnetic Secular Variations
- 11:00–11:15 EGU2012-7054
S. Wastegård, E.R. Gudmundsdóttir, E.M. Lind, and J. Olsen
 Towards a complete Holocene tephrochronology for the Faroe Islands
- 11:15–11:30 EGU2012-9293
D. Fleitmann, A. Borsato, S. Frisia, S. Badertscher, H. Cheng, R.L. Edwards, and O Tüysüz
 Speleothems as sensitive recorders of volcanic eruptions - the Bronze Age Minoan eruption recorded in a stalagmite from Turkey
- 11:30–11:45 EGU2012-13085
J. Stern and L. Lisiecki
 Timing of deglacial changes in regional Atlantic benthic $\delta^{18}O$
- 11:45–12:00 EGU2012-11829
R. De Pol-Holz, M. Mohtadi, and J. Southon
 Intermediate water radiocarbon off west Sumatra during the last 45,000 years

LUNCH BREAK

Chairperson: n.n.

- 13:30–13:45 EGU2012-13849
F. Parrenin, D. Veres, A. Landais, L. Bazin, B. Lemieux-Dudon, H. Toyé Mahamadou Kele, E. Wolff, and P. Martinerie
 A common and optimized age scale for Antarctic ice cores
- 13:45–14:00 EGU2012-7570
H. Toyé Mahamadou Kele, B. Lemieux-Dudon, and E. Blayo
 Toward unified ice core chronologies with the DatIce tool
- 14:00–14:15 EGU2012-7646
L. Bazin, A. Landais, B. Lemieux-Dudon, H. Toyé Mahamadou Kele, T. Blunier, E. Capron, J. Chappellaz, H. Fischer, M. Leuenberger, V. Lipenkov, M.-F. Loutre, P. Martinerie, F. Parrenin, F. Prié, D. Raynaud, D. Veres, and E. Wolff
 Toward an integrated ice core chronology using relative and orbital tie-points

- 14:15–14:30 EGU2012-8309
K. Kawamura, S. Aoki, T. Nakazawa, K. Suzuki, and F. Parrenin
 Accurate age scale of the Dome Fuji ice core, Antarctica from O₂/N₂ ratio of trapped air
- 14:30–14:45 EGU2012-10293
J. Freitag, S. Kipfstuhl, M. Hörhold, A. Wegner, F. Wilhelms, and M. Bigler
 Impurity controlled firn densification: a new model approach
- 14:45–15:00 EGU2012-3633
T.J. Fudge, K. Taylor, K. McGwire, E. Brook, T. Sowers, E. Steig, J. White, B. Vaughn, R. Bay, J. McConnell, E. Waddington, H. Conway, G. Clow, K. Cuffey, J. Cole-Dai, D. Ferris, and J. Severinghaus
 A 62 ka record from the WAIS Divide ice core with annual resolution to 30 ka (so far)

CL5.1/GM2.5 – Advances in Quaternary Geochronology (co-organized) – Posters

Convener: T. Kiefer | Co-Conveners: G. Duller, I. Hajdas, A. Lang, F. Parrenin, EW Wolff

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- Z85 EGU2012-1331
S. Winkler
 Addressing geomorphologic uncertainties with terrestrial cosmogenic nuclide dating (TCND) - examples from Holocene moraines in the Southern Alps of New Zealand
- Z86 EGU2012-6695
D. Fabel, J. McKie, J. Graham, and S. Xu
¹⁰Be production rate calibration in Scotland
- Z87 EGU2012-13717
E. J. Rhodes, B. J. Roder, M. J. Lawson, J. F. Dolan, S. F. McGill, and L. McAuliffe
 Isothermal thermoluminescence dating of K-feldspar from sediments to determine fault slip rates: development and assessment
- Z88 EGU2012-1822
S. Savi, K. Norton, F. Schlunegger, V. Picotti, F. Brardinoni, N. Akçar, and P.W. Kubik
 How does sediment mixing affect ¹⁰Be concentrations in alluvial sediments? A case study from a small catchment of the Alps, Zielbach, Alto Adige, Italy
- Z89 EGU2012-7867
A. Claude, S. Ivy-Ochs, F. Kober, M. Antognini, and P.W. Kubik
 Geomorphology and landscape evolution at the Chironico landslide (Leventina)
- Z90 EGU2012-8356
C. Wirsig, S. Ivy-Ochs, N. Akcar, V. Alfimov, C. Kämpfer, and C. Schlüchter
 COMBINING COSMOGENIC BE, C, AL AND CL - Quantifying depth of glacial erosion and timing of deglaciation
- Z91 EGU2012-12360
 F. Kober, **K. Hippe**, S. Ivy-Ochs, J. Zasadni, R. Wieler, L. Wacker, P.W. Kubik, and C. Schlüchter
 The Lateglacial deglaciation history of the high Alpine Gotthard Pass, Switzerland, based on cosmogenic ¹⁰Be and in situ ¹⁴C
- Z92 EGU2012-14022
F. Kober, K. Hippe, B. Salcher, S. Ivy-Ochs, P.W. Kubik, and L. Wacker
 Mass wasting processes and their control on denudation rates, Matter-Valley, Switzerland
- Z93 EGU2012-14023
 M.W. Buechi, **F. Kober**, S. Ivy-Ochs, and P. Kubik
 Influence of former glaciations on interglacial landscape evolution: A case study from the LGM nunatak Hörnli, Eastern Switzerland
- Z94 EGU2012-10266
S. E. Lowick
 A comparison of the OSL response of quartz and polymineral fine grains to alpha and beta radiation
- Z95 EGU2012-7840
K. Beerten, N. Vandersmissen, K. Deforce, and N. Vandenberghe
 Chronology of landscape evolution during the last centuries in the Campine area, Northern Belgium: integrating geomorphological, palaeobotanical, historical and pollution archives
- Z96 EGU2012-14168
B. Mauz, M. Vacchi, and R. Nathan
 Using optical dating of beachrock for sea-level reconstruction
- Z97 EGU2012-14169
 C.L. Mellett, B. Mauz, D.M. Hodgson, A.J. Plater, and **A. Lang**
 Optical dating of late Quaternary deposits preserved beneath the eastern English Channel

- Z98 EGU2012-12770
J.-P. Buylaert, C. Thiel, A.S. Murray, **M. Jain**, K.J. Thomsen, and R. Sohbati
Extending the luminescence dating age range using feldspar
- Z99 EGU2012-1737
A. Kunz, D. Pflanz, F. Krüger, T. Weniger, and B. Urban
OSL-dating of fluvial deposits of the Middle Elbe River Flood Plains using different statistical approaches
- Z100 EGU2012-7880
L. Bickel, J. Lomax, and M. Fiebig
Fluvial terrace gravels of the "Hochterrasse" (N-Alpine Foreland, Austria): luminescence characteristics of quartz and feldspar
- Z101 EGU2012-6342
R. Mertz-Kraus, W.D. Sharp, and K.R. Ludwig
Precise and accurate measurement of U and Th isotopes via ICP-MS using a single solution
- Z102 EGU2012-7255
I. Hajdas, S.F.M. Breitenbach, M. Gierga, G.H. Haug, J.F. Adkins, C. Biechele, G. Bonani, M. Maurer, and L. Wacker
14C in a stalagmite from NE India: preliminary results of dating near the limit of radiocarbon time scale
- Z103 EGU2012-9008
A. Birkholz, M. Gierga, **I. Hajdas**, R. Smittenberg, L. Wacker, and S.M. Bernasconi
Compound-specific Radiocarbon dating - a tool for dating lake sediments?
- Z104 EGU2012-13135
B. Machalett, E.A. Oches, H.M. Roberts, and W.D. McCoy
Deciphering the Geochronological Framework of Serbian Loess Using Amino Acid Stratigraphy and Luminescence Dating
- Z105 EGU2012-4572
N. Marwan, K. Rehfeld, B. Goswami, S. F. M. Breitenbach, and J. Kurths
Age models and their uncertainties
- Z106 EGU2012-11229
M. Severi, R. Udisti, S. Becagli, B. Stenni, and R. Traversi
Volcanic synchronisation of the EPICA-DC and TALDICE ice cores for the last 42 kyr BP
- Z107 EGU2012-792
M. Winstrup, A. Svensson, S. O. Rasmussen, O. Winther, E. Steig, and A. Axelrod
An automated approach for annual layer counting in ice cores
- Z108 EGU2012-2866
D. Raynaud, V. Lipenkov, M-F. Loutre, A. Landais, and E. Capron
Dating the 800 ka - long EPICA DC ice core by tuning the air content and $\delta^{18}O_2/N_2$ records on local summer insolation.
- Z109 EGU2012-5223
F. Parrenin, J.R. Petit, V. Masson-Delmotte, E. Wolff, I. Basile-Doelsch, J. Jouzel, V. Lipenkov, S. Rasmussen, J. Schwander, M. Severi, R. Udisti, D. Veres, and B. Vinther
Volcanic synchronisation between the EPICA Dome C and Vostok ice cores (Antarctica) 0-145 kyr BP
- Z110 EGU2012-5265
F. Parrenin, S. Barker, T. Blunier, J. Chappellaz, V. Masson-Delmotte, J. Jouzel, A. Landais, J. Schwander, and D. Veres
On the Delta-depth along the EPICA Dome C ice core
- Z111 EGU2012-14158
F. Parrenin and V. Masson-Delmotte
An Antarctic temperature stack, 0-800 kyr BP
- Z112 EGU2012-7179
A. Svensson, M. Bigler, H. Fischer, S. J. Johnsen, S. Kipfstuhl, F. Parrenin, S. O. Rasmussen, J. P. Steffensen, B. M. Vinther, and A. Wegner
Direct linking of Greenland and Antarctic ice cores at the Toba eruption (74 ka BP)
- Z113 EGU2012-8629
R. C. A. Hindmarsh and C.M. Ritz
How deep do you need to drill through ice to measure the geothermal heat flux?
- Z114 EGU2012-10143
S. Weißbach, A. Wegner, J. Freitag, and S. Kipfstuhl
The influence of impurities on the densification of firn -a case study from North Greenland
- Z115 EGU2012-14153
J. R. Petit, F. Parrenin, and B. Delmonte
A chemical pacemaker to refine chronology for the deep East Antarctic ice cores

NP8.1/CL5.2 – Stochasticity and Statistical Physics in Climate Dynamics (co-organized) – Posters

Convener: Dr. Ghil | Co-Conveners: Dr Chekroun, V. Lucarini

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Mickael Chekroun

- XY365 EGU2012-2350
R. Boschi and V. Lucarini
Parametric Theory of Climate Change
- XY366 EGU2012-9959
V. Lucarini and S. Pascale
Time and space scale analysis of the climate entropy budget
- XY367 EGU2012-7181
A. Mukhina, D. Kondrashov, and D. Mukhin
Empirical modelling of ENSO dynamics: construction of optimal complexity models from data
- XY368 EGU2012-6564
M. Sonnewald, K. I. C. Oliver, and J. Dyke
Insights from extremum principles: The effects of diffusivity parameters on entropy budgets within an ocean-atmosphere-ice model
- XY369 EGU2012-2537
M. Inatsu, N. Nakano, and H. Mukougawa
Dynamics and predictability of extratropical wintertime low-frequency variability examined by a stochastic differential equation in a low-dimensional system
- XY370 EGU2012-2025
U. Achatz, U. Keeß, S. Dolaptchiev, and A. Gritsun
A Climate-Dependent Sub-Grid-Scale Parameterization in Reduced Climate Models
- XY371 EGU2012-6405
B. De Saedeleer
Characterisation of stochastically-induced climate jumps to other histories paced by the astronomical forcing.
- XY372 EGU2012-4873
T. Bodai, Gy. Karolyi, and T. Tel
A conceptual model of the atmosphere driven by different processes: Extreme events and snapshot attractors
- XY373 EGU2012-12578
F. C. Cooper and P. H. Haynes
Estimation of the response to a forcing of high dimensional non-linear systems
- XY374 EGU2012-9613
K. Fraedrich, I. Bordi, A. Sutera, and X. Zhu
Transient response to well-mixed greenhouse gas changes
- XY375 EGU2012-7873
P. D. Ditlevsen
The role of stochastic forcing in rapid climate transitions
- XY376 EGU2012-8157
D. Mukhin, D. Kondrashov, E. Loskutov, A. Feigin, and M. Ghil
Empirical modeling of ENSO dynamics: Predicting critical transitions in spatially distributed systems

CL5.3/HS6.7 – Climate Data Bias-Correction and Homogenization and Climate Trends and Variability Assessment (co-organized) – Orals

Convener: X. L. Wang | Co-Conveners: E. Aguilar, W. Dorigo, P. Stepanek, M. Schroeder, R. de Jeu, Dr. Fernández Prieto, Z. Su, P. van Oevelen, R. Roebeling

Room: 16

Chairperson: Xiaolan L. Wang

- 13:30–13:45 EGU2012-14361
E. Lebarbier
Some statistical tools for change-points detection
- 13:45–14:00 EGU2012-2355
A. Düsterhus and A. Hense
Automated Probabilistic Quality Assurance for Data Publication
- 14:00–14:15 EGU2012-11430
R. Auchmann, S. Brönnimann, M. Begert, and M. Croci-Maspoli
Homogeneous sub-daily temperature series for Switzerland - a physics-based approach
- 14:15–14:30 EGU2012-14019
X. Wenhui, **L. Quingxiang**, X.L. Wang, Y. Su, Z. Yani, and C. Lijuan
Homogenization of Chinese Daily Surface Air Temperatures

- 14:30–14:45 EGU2012-12948
P. Stepanek, P. Zahradnicek, and A. Farda
 Correcting inhomogeneities in daily time series - comparison of methods for various meteorological elements
- 14:45–15:00 EGU2012-10654
E. Rustemeier, A. Kapala, H. Mächel, A. Meyer-Christoffer, U. Schneider, M. Ziese, V. Venema, A. Becker, and C. Simmer
 An automatic method to homogenize trends in long-term monthly precipitation series
- Chairperson: n.n.
- 15:30–15:45 EGU2012-89
R. Brázdil, P. Zahradní?ek, P. Pišoft, P. Št?pánek, M. B?línová, and P. Dobrovolný
 Temperature and precipitation fluctuations in the Czech Republic during the period of instrumental measurements
- 15:45–16:00 EGU2012-6954
 Y.Y. Liu, **A.I.J.M. Van Dijk**, R.A.M. de Jeu, M.F. McCabe, and J.P. Evans
 Development and evaluation of a global long-term passive microwave vegetation product
- 16:00–16:15 EGU2012-10874
M. R. P. Sapiano, W. K. Berg, D. McKague, and C. D. Kummerow
 A Fundamental Climate Data Record of Intercalibrated Brightness Temperature Data from SSM/I and SSMIS
- 16:15–16:30 EGU2012-10561
M. Lockhoff, M. Stengel, A. Kniffka, F. Kaspar, and K.-G. Karlsson
 Evaluation of 28 years of CM SAF global cloud products derived from AVHRR
- 16:30–16:45 EGU2012-13564
R. T. Pinker, Y. Ma, and E. A. Nussbaumer
 Developing Consistent Earth System Data Records for the Global Terrestrial Water Cycle: Focus on Shortwave and Longwave Radiative Fluxes
- 16:45–17:00 EGU2012-11488
B. Bauer-Marschallinger, W. Dorigo, W. Wagner, M. Doubkova, and D. Chung
 Spatiotemporal Analyses of Remotely Sensed Soil Moisture with Respect to Regional Climate Modes and Solar Activity in Australia

CL5.3/HS6.7 – Climate Data Bias-Correction and Homogenization and Climate Trends and Variability Assessment (co-organized) – Posters

Convener: X. L. Wang | Co-Conveners: E. Aguilar, W. Dorigo, P. Stepanek, M. Schroeder, R. de Jeu, Dr. Fernández Prieto, Z. Su, P. van Oevelen, R. Roebeling

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Xiaolan L. Wang, Wouter Dorigo, Petr Stepanek

- Z116 EGU2012-959
N. Gnatiuk and S. Krakovska
 Homogenization and quality control of temperature datasets for Ukrainian stations of the Carpathian region
- Z117 EGU2012-10761
 P. Stepanek and **P. Zahradnicek**
 Homogenization results for various meteorological elements in the Czech Republic
- Z118 EGU2012-6360
J. Wang, L. Zhang, A. Dai, F. Immler, M. Sommer, and H. Vömel
 Homogenization of Daily Global Radiosonde Humidity Data: Vaisala RS92 Bias Correction and Impact
- Z119 EGU2012-12085
 L. Freitas, **M.G. Pereira**, L. Caramelo, L. Mendes, L. Amorim, and L. Nunes
 Homogenisation of minimum and maximum air temperature in northern Portugal
- Z120 EGU2012-7989
A.L. Morozova and M.A. Valente
 Homogenization of Portuguese long-term temperature data series: Lisbon, Coimbra and Porto
- Z121 EGU2012-13388
V.K.C. Venema, O. Mestre and the COST-HOME Team
 A blind test of monthly homogenisation algorithms
- Z122 EGU2012-3514
S. Dangendorf, J. Jensen, and S. Niehüser
 On detecting anthropogenic change points in sea level quantiles of mesotidal areas - Application to the German Bight

- Z123 EGU2012-10935
M. Rienzner and C. Gandolfi
Changepoint detection in case of step change and inhomogeneous segments (platform-like inhomogeneities)
- Z124 EGU2012-5770
A. K. Stips and M. J. Lilover
Recent climate change: Steady linear process or abrupt transition?
- Z125 EGU2012-7911
G. Marougianni, D. Melas, I. Kioutsioukis, H. Feidas, P. Zanis, and E. Anandranistakis
Trend analysis of air temperature and precipitation time series over Greece: 1955-2010
- Z126 EGU2012-6849
A. Troccoli
Long-term wind speed trends over Australia
- Z127 EGU2012-9310
R. Wartenburger, A. Stickler, and S. Brönnimann
Estimation, Classification and Analysis of Errors in Historical Upper-Air Observations for Use as a Data Validation Tool: A Concept
- Z128 EGU2012-81
Y. Kuleshov, E. Fu, K. Zhang, D. Silcock, and A. G. Pavelyev
Advancing climate studies in the Asia-Pacific region with the next generation GNSS and an innovative radio occultation technique
- Z129 EGU2012-7066
T.Y. Lee, J.C. Huang, P.W. Perng, C.P. Tung, and S.J. Kao
An Improved Stream Temperature Model for Continuous Simulation and Its Application to Formosan Landlocked Salmon's Habitat Assessment
- Z130 EGU2012-14325
A. Lin and **X. L. Wang**
An algorithm for blending multiple satellite precipitation estimates with in situ precipitation measurements in Canada
- Z131 EGU2012-12140
P. van Oevelen, C. Kummerow, and J. Schulz
GEWEX Contributions to Long Term Global Data Sets
- Z132 EGU2012-11815
W. Dorigo, R.A.M. De Jeu, W. Wagner, R.M. Parinussa, Y.Y. Liu, and D. Fernández-Prieto
Evaluating trends and anomalies of a multi-sensor soil moisture climate data record
- Z133 EGU2012-5706
R.A.M. de Jeu, R.M. Parinussa, W.A. Dorigo, W.W. Wagner, Y.Y. Liu, and D. Fernandez-Prieto
Validation of long term satellite soil moisture records using tree ring data
- Z134 EGU2012-3887
X. Guo
Satellite measurements of air density and ozone distributions in the mesosphere using ultraviolet limb-scan technique
- Z135 EGU2012-4841
MB Borsche and AL Loew
Estimation of land surface heat fluxes from remote sensing data - an uncertainty assessment
- Z136 EGU2012-10951
M. Zribi, R. Amri, Z. Lili-Chabaane, W. Wagner, S. Hasenauer, B. Duchemin, G. Boulet, and B. Mougnot
Analysis of drought events in a North Africa semi-arid region, Using SPOT-VEGETATION and C band scatterometer satellite Data
- Z137 EGU2012-2915
U. Eden, J Timmermans, R van der Velde, and Z Su
Drought assessment by evapotranspiration mapping in Twente
- Z138 EGU2012-2717
J. Timmermans, M. Gokmen, U. Eden, M. Abou Ali, Z. Vekerdy, and Z. Su
Drought monitoring over the Horn of Africa using remotely sensed evapotranspiration, soil moisture and vegetation parameters

SC4/CL5.17 – Visualization and Data Analysis in Earth and Climate Science (co-organized) – Orals

Convener: N. Röber | Co-Conveners: M. Böttinger, R. Brownrigg, H. Doleisch, W. Freiler, T. Nocke, M. Sips

Room: 25

Chairperson: n.n.

15:30–17:00

Chairperson: n.n.

17:30–19:00

SSP1.2 – Reef and carbonate platform response to sea-level and environmental changes (co-listed) – Orals

Convener: G. Camoin | Co-Conveners: J. Webster, J. P. Navarro, I. Jarvis

Room: 41

Chairperson: G. CAMOIN

- 08:30–08:45 EGU2012-1008
M. Lankarani, A. Amini, and R. Swennen
The Stratigraphy of the Aquitanian-Burdigalian Asmari Formation of Lorestan Sub-Basin, Iran: an Inclusive Study
- 08:45–09:00 EGU2012-3660
H. Eltom, M. Makkawi, and **O. Abdullatif**
Characterization of Porosity and Permeability of the Upper Jurassic Arab-D Carbonate Reservoir Using 3D Outcrop Analog, Central Saudi Arabia
- 09:00–09:15 EGU2012-620
B. Pierson, **D. Menier**, K.K. Ting, and A. Chalabi
Morphological indicators of growth stages in carbonates platform evolution: comparison between present-day and Miocene platforms of Northern Borneo, Malaysia.
- 09:15–09:30 EGU2012-3637
O. Abdullatif and M. Yassin
Facies Modeling of of Dam and Hofuf Formations: Outcrop Analog of Mixed Carbonate and Siliciclastic (Miocene-Pliocene) Succession, Eastern Saudi Arabia
- 09:30–09:45 EGU2012-1819
L. Gale, A. Šmuc, T. Kolar-Jurkovšek, D. Skaberne, B. Celarc, J. ?ar, and B. Roži?
Norian-Rhaetian sedimentary evolution of the Slovenian Basin (eastern Southern Alps)
- 09:45–10:00 EGU2012-13294
S.J. Barrett and J. Webster
3D numerical modelling of the Holocene evolution of One Tree Reef, Southern Great Barrier Reef: Implications for understanding the growth and architecture of coral reefs

SSP1.2 – Reef and carbonate platform response to sea-level and environmental changes (co-listed) – Posters

Convener: G. Camoin | Co-Conveners: J. Webster, J. P. Navarro, I. Jarvis

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: G. CAMOIN

- A303 EGU2012-838
A. Zaitsev
Microfacies of the Billingen-Aseri (Lower-Middle Ordovician) carbonate deposits northwest of the Russian Platform
- A304 EGU2012-4254
S.-H. Bae, D.-C. Kim, G.-S. Lee, H.-I. Yi, and H.-G. Cho
Sequence stratigraphy of the late Quaternary deposits in the central Yellow Sea
- A305 EGU2012-2922
F. Bastide, G. Massonnat, K. Föllmi, T. Adatte, T. Dumont, A. Arnaud-Vanneau, A. Virgone, and H. Arnaud
Urgonian platform carbonates (Barremian-Early Aptian) of southeastern France: description of a new project and first data
- A306 EGU2012-1905
N Marquez and **J Kasper**
Preliminary geochemical results of corals from the Puerto Morelos Reef, Southeastern Mexico
- A307 EGU2012-6682
A. Ortega-Nieto and J. Urrutia-Fucugauchi
Cenozoic Carbonate Stratigraphy of the Yucatan Shelf, Southern Gulf of Mexico
- A308 EGU2012-13922
R. M. C. Maia, A. T. Dos Reis, C. Gorini, C. G. Silva, M. Rabineau, and D. Granjeon
Shelf-edge sedimentary systems off Rio de Janeiro State, northern Santos basin-Brazil
- A309 EGU2012-3303
S. W. Lokier, T. Onuma, and H. Hamada
Geomorphological evolution of the dynamic Abu Dhabi coastline
- A310 EGU2012-6583
A. Garcia-Avedaño and J. Urrutia-Fucugauchi
Lithological and Petrographic Analyses of Carbonates and Sandstones From the Southern Gulf of Mexico

SSP4.2 – Palaeoclimate records from speleothems: analytical techniques, proxies, and application (sponsored by

IAS) (co-listed) – Orals

Convener: D. Scholz | Co-Conveners: D. Hoffmann, H. Stoll

Room: 41

Chairperson: Denis Scholz

- 13:30–13:45 EGU2012-12624
H.B. Vonhof and A.J. Nederbragt
Fluid inclusion stable isotope analysis in speleothem calcite as a tool for paleoclimate reconstruction
- 13:45–14:00 EGU2012-6116
A. Matthews, M. Bar-Matthews, H.P. Affek, A. Ayalon, H.B. Vonhof, S. Zaarur, and Y. Burstyn
Fluid inclusion stable isotopes and clumped isotopes thermometry study of Eastern Mediterranean paleoclimate
- 14:00–14:15 EGU2012-2151
T. Kluge, S. Zaarur, J. Dublyansky, C. Spötl, and H.P. Affek
Insights into kinetic isotope fractionation in calcite using clumped isotopes in Devils Hole
- 14:15–14:30 EGU2012-10907
N. Vogel, Y. Scheidegger, M.S. Brennwald, D. Fleitmann, S. Figura, R. Wieler, and R. Kipfer
Noble gas paleotemperatures and water contents of stalagmites - a new extraction tool and a new paleoclimate proxy
- 14:30–14:45 EGU2012-2863
D. Rudzka and F. McDermott
The¹⁴C 'bomb' pulse in selected European stalagmites as a tracer of soil carbon cycling dynamics
- 14:45–15:00 EGU2012-4735
S. Riechelmann, D. Buhl, D.K. Richter, A. Schröder-Ritzrau, D.F.C. Riechelmann, A. Niedermayr, H.B. Vonhof, J. Wassenburg, and A. Immenhauser
Speleothem Mg-isotope time-series data from different climate belts
- Chairperson: Heather Stoll
- 15:30–15:45 EGU2012-7124
C. Spötl and Y. Dublyansky
Devils Hole, Nevada: revisited
- 15:45–16:00 EGU2012-8206
R. Drysdale, I. Couchoud, G. Zanchetta, J. Hellstrom, E. Regattieri, I. Isola, and I. Baneschi
Decoupling between the tropics and the mid- to high-latitude North Atlantic region during Marine Isotope Stage 7
- 16:00–16:15 EGU2012-13311
I. John, S. Burns, H. Cheng, L. Edwards, W. McCoy, S. Markovic, and W. Endlicher
Marine Isotope Stage 5 Climate Variability in the Central Balkan Peninsula
- 16:15–16:30 EGU2012-4632
A. Fankhauser, F. McDermott, D. Fleitmann, and D.L. Hoffmann
Rapid response of climatic conditions during the last glacial: evidence from U-series dated Irish speleothems
- 16:30–16:45 EGU2012-10725
H. Ridley, J.U.L. Baldini, C.G. Macpherson, K.M. Prufer, D.J. Kennett, and Y. Amserom
Monthly-scale palaeo-rainfall reconstructed using a Belizean stalagmite.
- 16:45–17:00 EGU2012-1627
L. Comas-Bru, F. McDermott, and D. Fleitmann
A 1,000 year annually resolved record of speleothem $\delta^{18}O$ from Northern Spain; a potential new proxy for North Atlantic Oscillation (NAO) index reconstruction

SSP4.2 – Palaeoclimate records from speleothems: analytical techniques, proxies, and application (sponsored by IAS) (co-listed) – Posters

Convener: D. Scholz | Co-Conveners: D. Hoffmann, H. Stoll

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Dirk Hoffmann

- A327 EGU2012-715
H. Green, J. Wood, R. Pickering, J. Hellstrom, R. Drysdale, and J. Hergt
Exploring the potential of speleothem palaeoclimate records from S.E. Australia
- A328 EGU2012-5351
P. van Beynen, **D. Ford**, and H. Schwarcz
Annual laminae as measured using fluorescence in historic stalagmites from Baradla Cave, Aggtelek National Park, Hungary.

- A329 EGU2012-5625
H. Rowe, J. Buckles, Y. Gao, G. Springer, H. Cheng, R.L. Edwards, and B. Hardt
 Resolving Global-Scale Climate Changes in Stalagmites from Eastern North America: A Focus on MIS 5 through 3
- A330 EGU2012-5825
J. Buckles, H. Rowe, Y. Gao, H. Cheng, R.L. Edwards, G. Springer, and B. Hardt
 Trace element and stable isotope variations in three coeval West Virginia speleothems spanning the LGM and Younger Dryas
- A331 EGU2012-5869
J. Buckles, H. Rowe, Y. Gao, H. Cheng, R.L. Edwards, G. Springer, and B. Hardt
 A new technique for trace elemental analysis of speleothems using microbeam xrf
- A332 EGU2012-6305
H. Stoll, W. Muller, and M. Prieto
 Deciphering annual and long term trace element cycles in speleothems using cave monitoring and simple models
- A333 EGU2012-7226
S. Brandstätter, W. Müller, R. Boch, and C. Spötl
 Trace element patterns across rapid climate change events in Pleistocene speleothems from caves in the Alps
- A334 EGU2012-6806
J. Urrutia-Fucugauchi, L. Perez-Cruz, X. Zhao, M. Rebolledo-Vieyra, and A. Rodriguez
 Preliminary Geochemical and Rock Magnetic Study of a Stalagmite From Quintana Roo, Northeastern Yucatan Peninsula
- A335 EGU2012-8272
R. Drysdale, B. Paul, J. Hellstrom, I. Couchoud, A. Greig, P. Bajo, G. Zanchetta, I. Isola, C. Spötl, I. Baneschi, E. Regattieri, and J. Woodhead
 Precise microsampling of poorly laminated speleothems for U-series dating
- A336 EGU2012-8621
Y. Kayama, S. Sakai, and K. Okamoto
 Reconstruction of paleoclimate using stalagmite on Ishigaki-Island, Japan
- A337 EGU2012-8685
J. Bosle, D. Scholz, and T. Hoffmann
 Chemical characterization of lipids in speleothems and cave drip water by organic trace analysis (HPLC-ESI-IT/MS) and its potential for the investigation of palaeoenvironmental changes
- A338 EGU2012-8734
 A. Moreno, **M. Bartolomé**, C. Sancho, Á. Belmonte, H. Stoll, I. Cacho, R. L. Edwards, and J. Hellstrom
 Climate variability during the Holocene inferred from northeastern Iberian speleothems
- A339 EGU2012-9621
T. Marx and W. Aeschbach-Hertig
 Challenges on the way to noble gas temperatures on speleothems
- A340 EGU2012-9999
T.E. Horsfield, M. Rogerson, G.M. Henderson, E.J. Rohling, A. Mihevc, M. Budja, M. Prelovsek, T.J. Coulthard, and G.M. Greenway
 A High-Resolution, Multi-Proxy Palaeoclimate Study of the Central Northern Mediterranean
- A341 EGU2012-10425
M. Luetscher, D.L. Hoffmann, W. Müller, and C. Spötl
 The 8.2 ka event in the northern Alps
- A342 EGU2012-7288
S. Dietrich, M. Werner, and G. Lohmann
 Influence of the Solar Activity on the Variability of Water Isotopes over Europe during the Late Holocene
- A343 EGU2012-7290
H. Hercman and J. Pawlak
 MOD-AGE - an algorithm for age-depth model construction; U-series dated speleothems case study
- A344 EGU2012-7676
B. Goswami, J. Heitzig, K. Rehfeld, N. Marwan, and J. Kurths
 The problem of calibration: A possible way to overcome the drawbacks of age models
- A345 EGU2012-9064
H.-C. Li, P. C. Chu, and C. W. Fan
 Speleothem Evidence for Temporal-Spatial Variation in East Asian Summer Monsoon since Medieval Warm Period
- A346 EGU2012-10592
D. Ballesteros, M. Jiménez-Sánchez, S. Giralte, J. García-Sansegundo, and G. Sendra
 Shaft speleogenesis in Picos de Europa (North Spain): contribution of cave geomorphological mapping and U-Th dating techniques

Tuesday, 24 April

AS1.10 – The global monsoon system: variability and dynamics (co-listed) – Orals

Convener: J. Li | Co-Conveners: Dr Turner, A. Bracco, P. Terray

Room: 10

Chairperson: n.n.

- 08:30–08:45 EGU2012-1232
R. Wu, J.-L. Chen, and W. Chen
 Distinguishing Different Types of ENSO Influences on the Indian Summer Monsoon Variability
- 08:45–09:00 EGU2012-3551
J. Li, R. Ding, Z. Wu, J. Feng, and K. Ha
 Interdecadal shift in the relationship between the East Asian summer monsoon and tropical SST
- 09:00–09:15 EGU2012-13987
C DeMott, C Stan, and D Randall
 Evaluating Asian Monsoon Northward Propagation Mechanisms in the ERA-interim Reanalysis and SP-CCSM
- 09:15–09:30 EGU2012-10020
C. Prodhomme, S. Masson, P. Terray, T. Izumo, T. Tozuka, and T. Yamaga
 Impacts of Indian Ocean SST biases on the Indo-Pacific climate as simulated in a global coupled model
- 09:30–09:45 EGU2012-8831
M. Vellinga, A. Arribas, and R. Graham
 Predictability of onset of the West African monsoon in the Met Office's seasonal forecasting system GloSea4
- 09:45–10:00 EGU2012-12704
S. Materia, F. Fierli, A. Borrelli, S. Gualdi, and A. Bellucci
 An analysis of the West African Monsoon predictability

CL1.13 – Decadal to millennial scale climate variability of the late Quaternary – Orals

Convener: M.-S. Seidenkrantz | Co-Conveners: A. Kuijpers, M.-A. Sicre, G. Masse, M. Faurischou Knudsen, J. Olsen, W. Hoek, S. O. Rasmussen, S. Blockley, H. Renssen, A. Svensson, M.F.A. Furze, A. Pienkowski

Room: 16

Chairperson: n.n.

- 08:30–08:45 EGU2012-13305
B. Machalett, E.A. Oches, E. Haam, Z.P. Lai, and W. Endlicher
 Long Term Seasonality Changes and Short Term Climate Variability Recorded in Eurasian Loess: Examples from Serbia, Romania, Kazakhstan, and China
- 08:45–09:00 EGU2012-6916
 P. De Deckker, M. Moros, K. Perner, and **E. Jansen**
 Tropical and Southern Westerlies Influence on Glacial Interhemispheric Asymmetry over the 35 to 10 ka period. The role of the Indo Pacific Warm Pool
- 09:00–09:15 EGU2012-8074
A.J. Pienkowski, J. England, M.F.A. Furze, B. MacLean, G. Vilks, and S. Blasco
 The late Quaternary environmental evolution of the Northwest Passage: a marine perspective
- 09:15–09:30 EGU2012-1374
R. Stein and K. Fahl
 Deglacial/Holocene variability of Arctic sea-ice cover and Younger Dryas Event: Reconstruction from biomarker ("IP25" and "PIP25") data
- 09:30–09:45 EGU2012-1340
C. Hillaire-Marcel, J. Maccali, C. Not, and A. Poirier
 Enhanced sea-ice export from the Arctic to the GIN seas during the Younger Dryas: A "Canadian" source from radiogenic isotope signatures
- 09:45–10:00 EGU2012-184
C. Pearce, N.F. Reynisson, G. Massé, S.M. Kristiansen, A. Kuijpers, and M.-S. Seidenkrantz
 Rapid Younger Dryas - Holocene transition recorded in marine sediments offshore Newfoundland

COFFEE BREAK

Chairperson: n.n.

- 10:30–10:45 EGU2012-5933
H.A Bauch and E.S. Kandiano
Watermass evolution and ice-drift patterns in the subarctic Norwegian Sea during the Holocene
- 10:45–11:00 EGU2012-347
E. Lind and S Wastegård
Tephra horizons in the north Atlantic region contemporary with early Holocene climate events
- 11:00–11:15 EGU2012-9023
M. Klug, M.-S. Seidenkrantz, J. A. Piotrowski, J. Heinemeier, L. Rubensdotter, J. Faust, and J. Knies
Short-term Holocene climate variability in coastal mid-Norway - the terrestrial response to the North Atlantic climate
- 11:15–11:30 EGU2012-10129
A. Per?oiu, B.P. Onac, M. Blaauw, J.G. Wynn, and K. Holmgren
A 10,500 year record of summer temperatures in Central Europe from cave glaciers
- 11:30–11:45 EGU2012-11340
E. Levac and E. Bourlon
Millennial Scale Oscillations in Paleoceanographic Records From Atlantic Canada
- 11:45–12:00 EGU2012-10840
LG Collins, CS Allen, J Pike, DA Hodgson, K Weckström, and G Massé
Highly branched isoprenoid (HBI) biomarkers as an Antarctic sea-ice proxy in deep ocean glacial age sediments

Room: 15

Chairperson: n.n.

- 15:30–15:45 EGU2012-4419
F. Lehner, A. Born, C. C. Raible, and T. F. Stocker
Barents Sea Inflow as control of the North Atlantic Oscillation during the onset of the Little Ice Age
- 15:45–16:00 EGU2012-6973
M.-A. Sicre, K. Weckström, M.-S. Seidenkrantz, A. Kuijpers, M. Benetti, G. Massé, U. Ezat, S. Schmidt, and I. Bouloubassi
Sea surface temperature variability of the Labrador Current over the last 2000 years
- 16:00–16:15 EGU2012-11955
K Weckström, G Massé, M-A Sicre, M-S Seidenkrantz, A Kuijpers, S Schmidt, and LG Collins
Sea ice reconstructions in the southwestern Labrador Sea based on a novel biomarker
- 16:15–16:30 EGU2012-11676
G. Rueda, A. Rosell-Melé, G. Massé, and L. Polyak
Sea ice melting increase in the eastern Barents Sea during the last ca. 500 years
- 16:30–16:45 EGU2012-7146
J.H. Jungclaus, D. Zanchettin, and D. Notz
Arctic climate and sea-ice changes in CMIP5/PMIP3 simulations over the last millennium
- 16:45–17:00 EGU2012-6737
J.J. Blackford, P.A. Ryan, B. Akinyemiju, and P.D. Hughes
Arctic climate change in recent centuries: a review

CL1.13 – Decadal to millennial scale climate variability of the late Quaternary – Posters

Convener: M.-S. Seidenkrantz | Co-Conveners: A. Kuijpers, M.-A. Sicre, G. Mase, M. Faurischou Knudsen, J. Olsen, W. Hoek, S. O. Rasmussen, S. Blockley, H. Renssen, A. Svensson, M.F.A. Furze, A. Pienkowski

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- Z1 EGU2012-2268
H. Zou, I. Schulte-Loh, E. Bazhenova, R. Stein, J. Matthiessen, and C. Vogt
Late Quaternary history of circum-Arctic ice sheets and Arctic Ocean paleoceanography: New insights from a sediment core transect across Mendeleev Ridge
- Z2 EGU2012-676
C.L Green, J.A.M Green, and G.R Bigg
Simulations of deep-draft icebergs and freshwater surges formed during a Barents Ice Sheet collapse
- Z3 EGU2012-6627
J. A. Pavón-Moreno, L. Pérez-Cruz, J. Urrutia-Fucugauchi, and M.A. Monreal-Gómez
Marine Sedimentary Record of the Gulf of Tehuantepec in the Late Quaternary: paleoceanographic and paleoclimatic implications
- Z4 EGU2012-7691
T.L. Rasmussen, J. Olsen, S. Wastegård, and E. Thomsen
Stratigraphy of three mid-late Weichselian tephra layers from the Faroe Islands margin

- Z5 EGU2012-929
C.M. Sheldon, A.E. Jennings, J.T. Andrews, C. O Cofaigh, J.A. Dowdeswell, and A.A. Kilfeather
Deglacial History and Paleooceanography of the Umanak System, West Greenland
- Z6 EGU2012-6634
Y. Iizuka, M. Hansson, I. Oyabu, T. Karlin, and K. Goto-Azuma
Chemical compounds of past soluble aerosols preserved in the NEEM and Dome Fuji ice cores
- Z7 EGU2012-6741
I. Oyabu, Y. Iizuka, T. Sakurai, T. Suzuki, T. Miyake, M. Hirabayashi, H. Motoyama, and T. Hondoh
Chemical compositions of soluble particles around the Termination 1 in the Dome Fuji ice core
- Z8 EGU2012-12907
T.R. Lakeman, B. MacLean, S. Blasco, R. Bennett, and J.E. Hughes Clarke
Chronology and dynamics of the Amundsen Gulf Ice Stream in Arctic Canada during the last glacial-interglacial transition
- Z9 EGU2012-3936
K.K. Park, B.K. Khim, and K. Ohkushi
Provenance of deglacial IRD and clay minerals in the Chukchi Plateau, western Arctic Ocean
- Z10 EGU2012-5065
A. Mackensen
High preindustrial $\delta^{13}C$ in the deep Arctic Ocean: Implications for the interpretation of abrupt benthic $\delta^{13}C$ excursions during the last glaciation
- Z11 EGU2012-8746
V. Montade, **N. Combourieu Nebout**, M. Kagayama, C. Kissel, G. Siani, and E. Michel
Southern Westerly Wind belt and Carbon dioxide changes during the Antarctic Cold Reversal
- Z12 EGU2012-4668
A. H. Pasanen, J. P. Lunkka, and N. O. Putkinen
Reconstruction of the White Sea Basin during the late Younger Dryas
- Z13 EGU2012-3319
M. Meheust, **R. Stein**, and K. Fahl
Deglacial-Holocene variability of sea ice and surface water temperature in the Bering Sea: Reconstruction based on "IP25" and alkenone data
- Z14 EGU2012-12901
U.J. van Raden, **A. Gilli**, J. van Leeuwen, and B. Ammann
Changes in erosional input and environmental conditions at Lake Gerzensee, Switzerland, during Termination 1
- Z15 EGU2012-12675
M. S?owi?ski, I. Zawiska, A.M. Nory?kiewicz, K. Apolinarska, M. Luty?ska, P. Skuba?a, F. Ott, S. Wulf, and A. Brauer
Climate impact on the Trzechowskie paleolake ecosystem during the Late Glacial and early Holocene in the light of multiproxy analysis
- Z16 EGU2012-282
A. Junginger and M.H. Trauth
The Role of the Congo Air Boundary and Solar Variations during the Early Holocene East African Humid Period
- Z17 EGU2012-5710
A.B. Pedersen, **M.-S. Seidenkrantz**, F. Mienis, A. Fischel, N. Frank, and D. Hebbeln
Gulf Stream variability in western North Atlantic off Cape Lookout, North Carolina
- Z18 EGU2012-4047
M.J. Hansen, C.S. Andresen, M.-S. Seidenkrantz, A. Kuijpers, and N. N?rgaard-Pedersen
Reconstruction of past oceanographic variability in Southeast Greenland from marine sedimentary records: The influence from the Atlantic Multi-decadal Oscillation
- Z19 EGU2012-8724
K. M?ller-Navarra, U. Kotthoff, U. C. M?ller, and J. Pross
Holocene vegetation and climate changes in Northeast Greece deduced from a terrestrial pollen record
- Z20 EGU2012-8745
V. R. Krossa, H.-J. Kim, M. Moros, W. D?rfler, T. Blanz, J. S. Sinninghe Damst?e, and R. Schneider
Mid Holocene climate change and impact on evolution on human settlements in northern central Europe
- Z21 EGU2012-8301
D. Fritzsche, T. Opel, and H. Meyer
Eurasian Arctic climate over the past two millennia as recorded in the Akademii Nauk ice core (Severnaya Zemlya, Russian Arctic)
- Z22 EGU2012-12934
M.-A. Sicre, P. Rasmussen, **U. Ezat**, A. Fernane, K. Weckstr?m, A. Kuijpers, and G. Mass?e
Sea surface temperature history in Isefjord (Denmark) over the last 2000 yrs
- Z23 EGU2012-11044
O. Bothe, D. Zanchettin, and J. Jungclaus
Climatology of cold and warm periods in recent centuries - consistency of simulations and reconstructions

- Z24 EGU2012-3420
A.D. Tegzes, E. Jansen, and R.J. Telford
The Nordic Seas: could inflow variability be driven by atmospheric circulation changes over the past millennium?
- Z25 EGU2012-10800
F.J. Davies, H Goosse, and H Renssen
The Influence of Volcanic and Solar forcings on the Freshwater Budget of the Arctic Ocean
- Z26 EGU2012-9891
S. Muthers, C. Raible, and A. Born
On the role of external forcing for the Atlantic Multidecadal Oscillation.
- Z27 EGU2012-5891
D. Zanchettin, **J.-H. Jungclaus**, D. Matei, O. Bothe, and A. Rubino
The Pacific Decadal Oscillation and the Atlantic Multidecadal Oscillation: how much close during the last millennium?
- Z28 EGU2012-527
X. Xiao, K. Fahl, and R. Stein
Modern spatial (seasonal) variability in sea ice cover of the Kara and Laptev seas: Reconstruction from new biomarker data determined in surface sediments
- Z29 EGU2012-1377
K. Fahl and **R. Stein**
Modern seasonal variability of central Arctic Ocean sea-ice cover: Reconstruction based on biomarker ("IP25" and "PIP25") data from sediment trap samples
- Z30 EGU2012-5196
E. Bazhenova, **H. Zou**, C. Vogt, R. Stein, and J. Matthiessen
Provenance discrimination in surface sediments of the Amerasian Basin (Arctic Ocean) constrained by quantitative mineralogical analyses

CL1.16/AS4.1/BG2.12/IG15 – Biogeochemistry of Atmospheric Methane: Isotopes to Models (co-organized) – Orals

Convener: T. Sowers | Co-Conveners: M. Bock, J. Singarayer

Room: 13

Chairperson: Todd Sowers

- 08:30–08:45 EGU2012-3211
L. Mitchell, E. Brook, T. Sowers, and J. Lee
Multidecadal variability and the Inter Polar Gradient of atmospheric methane in the late Holocene
- 08:45–09:00 EGU2012-9540
J. G. Levine, E. W. Wolff, A. E. Jones, M. A. Hutterli, L. C. Sime, O. Wild, P. O. Hopcroft, P. J. Valdes, A. T. Archibald, G. D. Carver, N. J. Warwick, and J. A. Pyle
The Ice-core Record of Atmospheric Methane: Chemistry-Climate Interactions on Tens to Thousands of Years
- 09:00–09:15 EGU2012-4938
I. Levin, G. Brailsford, T. Bromley, E. Dlugokencky, R. Fisher, R. Heinz, D. Lowe, D. Lowry, J.B. Miller, E. Nisbet, C. Poß, B.H. Vaughn, C. Veidt, and J.W.C. White
Two decades of stable carbon isotope measurements in atmospheric methane - what do they tell us about global methane budget changes?
- 09:15–09:30 EGU2012-13042
S. Houweling
Global sources and sinks of methane and the use of satellite measurements
- 09:30–09:45 EGU2012-2937
L. Möller, T. Sowers, M. Bock, R. Spahni, M. Behrens, J. Schmitt, H. Miller, and **H. Fischer**
Climate and CO₂ control on emissions and ecosystem composition of global methane sources over the last 160,000 years derived from $\delta^{13}\text{C}$ in ice cores
- 09:45–10:00 EGU2012-162
J. Chappellaz, T. Blunier, X. Faïn, C. Stowasser, V. Gkinis, E. Brook, R. Rhodes, J. McConnell, S. Schüpbach, J. Rosen, R. Dallmayr, O. Pascual, and M. Bigler
Continuous Methane and Carbon Monoxide Concentration Measurements along the NEEM Core

CL1.16/AS4.1/BG2.12/IG15 – Biogeochemistry of Atmospheric Methane: Isotopes to Models (co-organized) – Posters

Convener: T. Sowers | Co-Conveners: M. Bock, J. Singarayer

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Michael Bock

- Z31 EGU2012-5751
A. Basu, M. G. Schultz, and L. Francois
Evaluation of a wetland methane emission parameterization for present-day and Last Glacial Maximum
- Z32 EGU2012-10947
A. Budishchev, Y. Mi, A. Gallagher, J. van Huissteden, G. Schaepman-Strub, A.J. Dolman, and T.C. Maximov
Validation of a methane emission model using eddy covariance observations and footprint modeling.
- Z33 EGU2012-13057
S. Dadson
Modelling land-atmosphere interactions in tropical African wetlands
- Z34 EGU2012-7135
T. Umezawa, S. Sugawara, T. Sugiyama, K. Kawamura, S. Aoki, and T. Nakazawa
Histories of atmospheric methane and its carbon and hydrogen isotopic ratios over the last 250 years obtained from an ice core and firn air
- Z35 EGU2012-1699
S. Bryant, L. Mitchell, E. Brook, and T. Sowers
High-resolution methane records covering the Holocene
- Z36 EGU2012-3217
H. Mitchell, M. Bock, and **T. Sowers**
Decoupling atmospheric methane isotope records during MIS 5-4 transition
- Z37 EGU2012-2366
M. Bock, J. Schmitt, R. Schneider, and H. Fischer
Post pyrolysis trapping of molecular hydrogen improves precision for $\delta D(CH_4)$ analysis
- Z38 EGU2012-7234
J. Schmitt, **B. Seth**, and H. Fischer
In situ production of ethane and propane in dust-rich Greenland ice core samples: is methane also affected?
- Z39 EGU2012-14109
M Baumgartner, A Schilt, O Eicher, J Schmitt, J Schwander, R Spahni, **H Fischer**, and T Stocker
Interpolar difference of atmospheric methane around the last glacial maximum
- Z40 EGU2012-5578
T. Blunier, J. Chappellaz, S. Schuepbach, Ch. Stowasser, E. Brook, J. Rosen, R. Dallmayr, O. Pascual, M. Bigler, and D. Leuenberger
Steps towards a continuous methane concentration record back to 100 kyr BP
- Z41 EGU2012-4396
C. J. Sapart, G. Monteil, M. Prokopiou, R.S.W. van de Wal, P. Sperlich, J.O. Kaplan, K.M. Krumhardt, C. van der Veen, S. Houweling, M.C. Krol, T. Blunier, T. Sowers, P. Martinerie, D. Dahl-Jensen, and T. Röckmann
Natural and anthropogenic variations in methane sources over the last 2 millennia
- Z42 EGU2012-3868
H. Schaefer, D.F. Ferretti, K.R. Lassey, J.W.C. White, P. Sperlich, D.M. Etheridge, and D.C. Lowe
Methane source reconstructions for the last 300 years from Law Dome $\delta^{13}CH_4$ and their relation to past climate

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. Giguët-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. Gosse 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. Br?nnimann
 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

CL2.1 – Arctic climate change: governing mechanisms and global implications – Orals

Convener: R. Bintanja | Co-Conveners: R. G. Graversen

Room: 13

Chairperson: Rune Grand Graversen

- 13:30–13:45 EGU2012-6274
P. L. Langen, T. Mauritsen, and R. G. Graversen
Separation of radiative feedback contributions to polar amplification
- 13:45–14:00 EGU2012-6926
V. Alexeev and C. Jackson
Polar amplification and atmospheric heat transport
- 14:00–14:15 EGU2012-11558
E.C. van der Linden and R. Bintanja
Effects of sea-ice changes on Arctic temperature amplification and climate sensitivity
- 14:15–14:30 EGU2012-1326
J. Cohen, J. Furtado, M. Barlow, V. Alexeev, and J. Cherry
Arctic warming, increasing snow cover and widespread boreal winter cooling.
- 14:30–14:45 EGU2012-2819
T. Koenigk and U. Willén
Arctic climate change in the global coupled model EC-Earth: The role of the ocean heat transport
- 14:45–15:00 EGU2012-5880
F. Pithan and T. Mauritsen
On the relation between Arctic Amplification, the Arctic inversion and the lapse-rate feedback

CL2.1 – Arctic climate change: governing mechanisms and global implications – Posters

Convener: R. Bintanja | Co-Conveners: R. G. Graversen

Hall Z | Display Time 08:00–19:30

Author in Attendance: 10:30–12:00

Chairperson: Richard Bintanja

- Z61 EGU2012-493
C. Di Biagio, A.G. di Sarra, P. Eriksen, S.E. Ascanius, G. Muscari, and B. Holben
Effect of surface albedo, water vapour, and atmospheric aerosols on the cloud-free shortwave radiative budget in the Arctic
- Z62 EGU2012-2862
F. Geyer, H. R. Langehaug, L. H. Smedsrud, and Y. Gao
Is Fram Strait ice export a driver for Arctic sea ice decline?
- Z63 EGU2012-3791
E. Dutra, P. Viterbo, G. Balsamo, C. Schär, and P. M. A Miranda
Land-atmosphere interactions associated with snow in a climate model
- Z64 EGU2012-5084
B. H. Samset, T. Berntsen, S.B. Dahlsøren, L.I. Eide, M.S. Eide, J. Fuglestedt, S. Glomsrød, L. Lindholt, G. Myhre, T.B. Nilssen, G.P. Peters, and K. Ødemark
Climate impacts of shipping and petroleum extraction in an unlocked Arctic ocean
- Z65 EGU2012-8623
R. Bintanja, E.C. van der Linden, and W. Hazeleger
Boundary layer stability and Arctic climate change: a feedback study using EC-Earth
- Z66 EGU2012-10287
V.A. Semenov and M. Latif
The Early Twentieth Century Warming and Winter Arctic Sea Ice
- Z67 EGU2012-10795
T Semmler, E Gleeson, R McGrath, and T Jung
Impact of decreasing sea ice cover and warming Arctic surface temperature on the Northern mid-latitude climate - comparison of coupled with uncoupled EC-Earth simulations
- Z68 EGU2012-11066
R. G. Graversen, M. Kapsch, T. Mauritzen, and M. Tjernström
Arctic temperature amplification and sea-ice melt
- Z69 EGU2012-11843
J. von Hardenberg, L. Vozella, V. Vitale, A. Lupi, M. Mazzola, T. P. C. van Noije, A. Strunk, and A. Provenzale
Aerosol optical depth over the Arctic: a comparison of two global aerosol models with ground-based, satellite and reanalysis data
- Z70 EGU2012-12091
U. Willen and R. Bintanja
Sensitivity of Arctic amplification to cloud-radiation feedbacks
- Z71 EGU2012-13026
T. M. Lenton and V. N. Livina
A recent bifurcation in Arctic sea-ice cover

- Z72 EGU2012-13439
R. Bintanja
Changes in the seasonality of Arctic sea ice and temperature
- Z73 EGU2012-13449
R. T. Pinker, E. A. Nussbaumer, X. Niu, and Y. Ma
Radiative Fluxes at High Latitudes: Implications for Climate Research
- Z74 EGU2012-13459
A. V. Chernokulsky and I. I. Mokhov
Annual and seasonal climatology of total cloudiness in the Arctic from satellite and surface observations and reanalyses

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

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

Room: 1

Chairperson: M. Semenov

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

COFFEE BREAK

Chairperson: A. Gobin

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

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

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

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Nicolas Dalezios

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

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

CL2.5 – Climate and infectious disease interactions – Orals

Convener: R. Lowe | Co-Conveners: V. Ermert, A. M. Tompkins, D. Taylor, A. Morse

Room: 13

Chairperson: Dr Adrian Tompkins

- 15:30–15:45 EGU2012-1126
F. Di Giuseppe, F. Molteni, and A.M. Tompkins
 A rainfall calibration methodology for impact modelling based on spatial mapping
- 15:45–16:00 EGU2012-1629
V. Ermert, A. H. Fink, H. Paeth, and A.P. Morse
 The potential effects of climate change on malaria in tropical Africa using regionalised climate projections
- 16:00–16:15 EGU2012-2064
C Caminade, JA Ndione, M Diallo, D MacLeod, O Faye, Y Ba, I Dia, JM Medlock, S Leach, KM McIntyre, M Baylis, and AP Morse
 Simulating infectious disease risk based on climatic drivers: from numerical weather prediction to long term climate change scenario
- 16:15–16:30 EGU2012-2349
L. Larsen
 An archival examination of environment and disease in eastern Africa in recent history
- 16:30–16:45 EGU2012-8594
B. Bett, A. Omolo, F. Hansen, A. Notenbaert, and S. Kemp
 Spatial-temporal analysis of the of the risk of Rift Valley Fever in Kenya
- 16:45–17:00 EGU2012-8832
R. Lowe, J. Chirombo, and A. M. Tompkins
 Challenges for modelling spatio-temporal variations of malaria risk in Malawi

CL2.5 – Climate and infectious disease interactions – Posters

Convener: R. Lowe | Co-Conveners: V. Ermert, A. M. Tompkins, D. Taylor, A. Morse

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Dr Volker Ermert

- Z75 EGU2012-1151
 A. M Stewart and **R Lowe**
 El Niño-Southern Oscillation and dengue early warning in Ecuador

- Z76 EGU2012-1559
A. P. Morse, C Caminade, A E Jones, D MacLeod, and A E Heath
The QWeCI Project: seamlessly linking climate science to society
- Z77 EGU2012-1878
D. MacLeod
Uncertainty in climate-driven disease prediction on seasonal to decadal timescales
- Z78 EGU2012-3108
S. K Tay, L. K. Amekudzi, and G. Tagoe
Impact of Climate Variability on Prevalence of Urinary Schistosomiasis over Sunyani in the Transition Belt of Ghana
- Z79 EGU2012-5140
F. Di Giuseppe, A.M. Tompkins, R. Lowe, E. Dutra, and F Wetterhall
The skill of ECMWF long range Forecasting System to drive impact models for health and hydrology in Africa
- Z80 EGU2012-8773
J. Gachohi, F. Hansen, B. Bett, and P. Kitale
Persistence of Rift Valley fever virus in East Africa
- Z81 EGU2012-8969
J. Chirombo, **R. Lowe**, and L. Kazembe
Geostatistical modelling of household malaria in Malawi
- Z82 EGU2012-9503
R. Lowe, T. Chadza, J. Chirombo, C. Fonda, A. Muyepa, M. Nkoloma, E. Pietrosevoli, S. M. Radicella, A. M. Tompkins, and M. Zennaro
A platform to integrate climate information and rural telemedicine in Malawi
- Z83 EGU2012-9825
S Kienberger, A Notenbaert, and P Zeil
Health risk in the context of climate change and adaptation - Concept and mapping as an integrated approach
- Z84 EGU2012-11468
F. Di Giuseppe, A.M. Tompkins, and **F Molteni**
Systematic Errors in the ECMWF long range Forecasting System over Africa
- Z85 EGU2012-12193
A. M. Tompkins, V. Ermert, and R. Lowe
VECTRI: A new dynamical disease model for malaria transmission
- Z86 EGU2012-12228
A. M. Tompkins, E. Asare, and L. K. Amekudzi
A simple pond parametrization for malaria transmission models

CR1.40/CL2.11 – State of the cryosphere: observations and modelling (co-organized) – Orals

Convener: J. L. Bamber | Co-Conveners: P. Lemke, F. Pattyn, S. Gruber, M. Van den Broeke, T. Payne, S. Nowicki

Room: 5

Chairperson: n.n.

- 08:30–08:45 EGU2012-5483
S. Kotlarski, C. Steger, T. Jonas, and C. Schär
Alpine snow cover in a changing climate: A regional climate model perspective
- 08:45–09:00 EGU2012-5280
O. Anisimov, S. Reneva, and V. Kokorev
Predictive modelling of terrestrial and sub-aquatic permafrost in Northern Eurasia: implications for the global carbon cycle and climate
- 09:00–09:15 EGU2012-11647
F. A. Haumann, D. Notz, H. Schmidt, and M. R. van den Broeke
Response of Wind-Driven Antarctic Sea-Ice Transport to External Anthropogenic Forcings
- 09:15–09:30 EGU2012-2460
J. Wahr, T. Jacob, W.T. Pfeffer, and S. Swenson
Recent contributions of all ice-covered regions, including mountain glaciers and ice caps, to sea level rise, as inferred from GRACE
- 09:30–09:45 EGU2012-6524
A. Fischer, J. Abermann, and M. Kuhn
On the accuracy of estimating the potential sea level rise by scaling the area of mountain glaciers
- 09:45–10:00 EGU2012-10130
R. H. Giesen and J. Oerlemans
Global glacier volume projections for the 21st century including the dynamical response to changes in climate

COFFEE BREAK

Chairperson: n.n.

- 10:30–10:45 EGU2012-12349
S. Lhermitte, W. Greuell, E. van Meijgaard, R. van Oss, M. R. van den Broeke, and W. J. van de Berg
 Greenland ice sheet surface albedo: trends in surface properties (2000-2011)
- 10:45–11:00 EGU2012-1481
F. Gillet-Chaulet, O. Gagliardini, M. Nodet, C. Ritz, G. Durand, and T. Zwinger
 Greenland Ice Sheet sensitivity to surface mass balance forcing using high resolution full-Stokes simulations
- 11:00–11:15 EGU2012-12304
R. Mottram, G. Aðalgeirsdóttir, F. Boberg, O. Bøssing Christensen, M. Stendel, and J. Hesselberg Christensen
 Regional Climate Projections for Greenland 1980 - 2099 using the HIRHAM5 Model
- 11:15–11:30 EGU2012-8312
I. Sasgen, J.L. Bamber, M. van den Broeke, L. Sandberg Sørensen, B. Wouters, Z. Martinec, M. Horwath, H. Konrad, E. Rignot, and I. Velicogna
 On regional ice sheet mass balance from GRACE, the mass budget method, and ICESat
- 11:30–11:45 EGU2012-11460
A. Jenkins
 A simple parameterisation of melting near the grounding lines of ice shelves and tidewater glaciers
- 11:45–12:00 EGU2012-12900
C. Ritz, G. Durand, T. Edwards, H. Hellmer, T. Payne, S. Shannon, and R. TimmerMann
 Antarctic instability and possible associated contribution to sea-level rise

CR1.40/CL2.11 – State of the cryosphere: observations and modelling (co-organized) – Posters

Convener: J. L. Bamber | Co-Conveners: P. Lemke, F. Pattyn, S. Gruber, M. Van den Broeke, T. Payne, S. Nowicki

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Jonathan Bamber

- XL63 EGU2012-5816
D. Micu
 Shifts during the snow season in the Romanian Carpathians in response to winter temperature and precipitation change
- XL64 EGU2012-6495
G. Serquet, C. Marty, and M. Rebetz
 Impact of increasing temperature on snowfall in Switzerland
- XL65 EGU2012-4948
S. Kivinen, E. Kaarlejärvi, K. Jylhä, and J. Räisänen
 The impact of warming climate on late summer snow cover in northwestern Finland
- XL66 EGU2012-4714
M. Huss
 Extrapolating glacier mass balance to the mountain range scale: The European Alps 1900-2100
- XL67 EGU2012-7748
A.N. Rudoy
 Quaternary ledoyoms in the mountains of southern Siberia
- XL68 EGU2012-7322
C. Lang, X. Fettweis, and M. Erpicum
 Evaluation of the regional climate model WRF over Svalbard
- XL69 EGU2012-1177
A. Sharov, D. Rieser, and D. Nikolskiy
 Glacier mass balance in high-arctic areas with anomalous gravity
- XL70 EGU2012-146
J.R. Carr, C.R. Stokes, and A. Vieli
 The role of climatic and oceanic forcing in Arctic tidewater outlet glacier behaviour
- XL71 EGU2012-11732
R Forsberg, L S Sørensen, A Khan, C Aas, D Evansberget, G Adalsteinsdottir, R Mottram, S B Andersen, A Ahlstrøm, J Dall, A Kusk, J Merryman, C Hvidberg, K Khvorostovsky, T Nagler, H Rott, M Scharrer, A Shepard, F Ticconi, and M Engdahl
 Ice_Sheets_CCI: Essential Climate Variables for the Greenland Ice Sheet
- XL72 EGU2012-3555
M. Tedesco, M. Hoffman, I. Willis, P. Alexander, and A. Banwell
 Multi-directional ice dynamic response to slow and fast supraglacial lake drainages in Greenland.

- XL73 EGU2012-11222
P. Rastner, T. Bolch, N. Mölg, R. Le Bris, and F. Paul
The first glacier inventory for entire Greenland
- XL74 EGU2012-2734
P. L. Svendsen, O. B. Andersen, and A. A. Nielsen
Acceleration of the GrIS mass loss as observed by GRACE
- XL75 EGU2012-12101
C. S. Hvidberg, L. B. Larsen, D. Dahl-Jensen, and S. L. Buchardt
Surface movement and elevation change at the NEEM deep drilling site, North Greenland, 2007-2011
- XL76 EGU2012-8011
R.T.W.L Hurkmans and **J.L. Bamber**
Time-varying mass changes of the Greenland and Antarctic ice sheets from radar and laser altimetry
- XL77 EGU2012-12769
M. Horwath
What do we mean by ice sheet mass trends?
- XL78 EGU2012-9230
K. Scharrer, T. Murray, A. Booth, T. D. James, A. J. Luckman, A. L. Hughes, S. L. Bevan, Y. Drocourt, L. Cordero Llana, N. Selmes, A. Goldsack, S. Cook, J. Bradley, and J. McGovern
Seasonal and inter-annual trends of Greenland tidewater glaciers
- XL79 EGU2012-8675
S. B. Simonsen, L. Stenseng, G. Adalgeirsdottir, and C. S. Hvidberg
Monte Carlo inversion of firn layers observed in firn cores and radar images - a validation of a dynamic firn compaction model
- XL80 EGU2012-1144
G. Picard, F. Domine, G. Krinner, L. Arnaud, E. Lefebvre, N. Champollion, and Q. Libois
Inhibition of the positive snow-albedo feedback by precipitation on the Antarctic plateau
- XL81 EGU2012-2868
J. Grieger, G.C. Leckebusch, and **U. Ulbrich**
Dynamical Impacts on Change of Net Precipitation over Antarctica in an A1B Scenario
- XL82 EGU2012-5760
R. Arthern, R.C.A. Hindmarsh, and C.R. Williams
Initialisation of a vertically-integrated, higher-order ice sheet model using observations of surface mass balance and elevation rate.
- XL83 EGU2012-3595
G. Adalgeirsdottir, A. Aschwanden, R. Mottram, and J.H. Christensen
Projections of the contribution of the Greenland Ice Sheet to sea level rise for the next 100 years
- XL84 EGU2012-10281
H. Goelzer, J.J. Fürst, and P. Huybrechts
Ensemble projections of the Greenland ice sheet contribution to future sea-level rise
- XL85 EGU2012-11852
J.J. Fürst, H. Goelzer, and P. Huybrechts
Future projections of Greenland's ice loss accounting for changes in surface mass balance and dynamic discharge
- XL86 EGU2012-10229
M. Vizcaíno, **W.H. Lipscomb**, and M. Van den Broeke
21st century changes in the surface mass balance of the Greenland ice sheet simulated with the global model CESM
- XL87 EGU2012-13457
T.L. Edwards, S.R. Shannon, A.J. Payne, G. Adalgeirsdottir, I.D. Bartholomew, A. Le Brocq, R. Mottram, P.W. Nienow, J. Rae, A. Shepherd, A. Sole, A. Sundal, R. van de Wal, and X. Fettweis
New parameterisations for the Greenland contribution to sea level rise
- XL88 EGU2012-7926
J. Krug, T. Flament, G. Durand, and F. Rémy
Surface curvature as a signature of dynamical thinning
- XL89 EGU2012-12403
W. Lipscomb, J. Johnson, S. Price, and W. Sacks
Modeling Land Ice in the Community Earth System Model
- XL90 EGU2012-7976
R. Winkelmann, A. Levermann, K. Frieler, and M.A. Martin
Uncertainty in Future Solid Ice Discharge from Antarctica
- XL91 EGU2012-6420
M. A. Martin, R. Winkelmann, and A. Levermann
Parameter sensitivity of dynamic ice loss from Antarctica: SeaRISE experiments with the Parallel Ice Sheet Model

NP8.1/CL5.2 – Stochasticity and Statistical Physics in Climate Dynamics (co-organized) – Orals

Convener: Dr. Ghil | Co-Conveners: Dr Chekroun, V. Lucarini

Room: 28

Chairperson: Michael Ghil

- 08:30–08:45 EGU2012-13897
A. Sutera
Forcing a non linear system
- 08:45–09:00 EGU2012-2266
S. Pierini
Environmental tipping points in random dynamical systems: a quasigeostrophic case study
- 09:00–09:15 EGU2012-11747
J. Laurie and F. Bouchet
A statistical mechanics approach to computing rare transitions in multi-stable turbulent geophysical flows
- 09:15–09:30 EGU2012-13213
V. Lucarini and J. Wouters
Disentangling multi-level systems: averaging, correlations and memory
- 09:30–09:45 EGU2012-9799
M. Mathur and J. Sommeria
Experimental modelling of bistability in mid-latitude atmospheric jets
- 09:45–10:00 EGU2012-7307
E. Loskutov, D. Mukhin, M. Chekroun, and A. Feigin
Empirical modeling of ENSO dynamics: prognosis of critical transitions in delay differential equations models of ENSO
- 10:00–10:15 EGU2012-2526
B. G. Liepert
Inter-model variability and biases of the global water cycle in CMIP3 coupled climate models

CL5.4/NP4.5 – Climate Time Series Analysis (co-organized) – Orals

Convener: M. Mudelsee | Co-Conveners: M. Trauth, T. Lenton

Room: 13

Chairperson: n.n.

- 10:30–10:45 EGU2012-6525
X. L. Wang, Y. Feng, and V. R. Swail
A generalized multivariate regression model for modelling ocean wave heights
- 10:45–11:00 EGU2012-11664
S. Morucci, R. Inghilesi, A. Orasi, and G. Nardone
Wave Climate and Extreme Events Analysis in the Central Mediterranean Sea
- 11:00–11:15 EGU2012-426
A. A. Turasie, D. B. Stephenson, T. E. Jupp, and J. Davidson
New Cointegration Methods for Detection and Attribution of Climate Trends
- 11:15–11:30 EGU2012-1105
V. N. Livina and T.M. Lenton
A recent bifurcation in Arctic sea-ice cover
- 11:30–11:45 EGU2012-5948
Y. Chen, M. Themessl, and A. Gobiet
Using the Quantile Mapping to improve a weather generator
- 11:45–12:00 EGU2012-13559
E. Brisson and N.P.M. van Lipzig
How does natural climate variability on decadal timescales affect timeseries analysis?

CL5.4/NP4.5 – Climate Time Series Analysis (co-organized) – Posters

Convener: M. Mudelsee | Co-Conveners: M. Trauth, T. Lenton

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- Z87 EGU2012-3453
C. Suteanu, V. Dobrica, and C. Demetrescu
Space-time variability in scaling aspects of surface air temperature records
- Z88 EGU2012-6322
E. Holtanova and A. Valerianova
The estimates of probability distribution of annual and seasonal maxima of maximum air temperature

- Z89 EGU2012-11841
T. Feng and Z.T. Fu
The role of changes in the seasonality in strong wind season shortening over China
- Z90 EGU2012-6993
M.C. Bramati and C. Tarragoni
Climatic patterns and extreme rainfalls on coastal areas in Central Italy
- Z91 EGU2012-2992
K. Pandzic and T. Likso
Comparing the Palmer Drought Index and the Standardized Precipitation Index for Zagreb Gric Observatory
- Z92 EGU2012-9653
B. Ustaoglu
Comparisons of Annual Precipitation Gridded and Station Datasets: An example from Istanbul, Turkey
- Z93 EGU2012-4092
I. B. Gregersen, H. Madsen, D. Rosbjerg, and K. Arnbjerg-Nielsen
Variations of extreme rainfall events in space and time
- Z94 EGU2012-13863
S. Yerel and N. Ozbay
Determination of Climate Changes by Using the Trend Analysis
- Z95 EGU2012-4929
S. Bathiany, M. Claussen, and K. Fraedrich
Detecting hotspots of atmosphere-vegetation interaction via Early Warning Signals
- Z96 EGU2012-4320
D. Karssenberg and M.F.P. Bierkens
Early-warning signals (potentially) reduce uncertainty in forecasted timing of critical shifts
- Z97 EGU2012-12984
I. Vieru, I.H. Holobâc?, O. Pop, I.A. Irimu?, and M. Georgescu
Climate signal in a Picea abies tree ring chronology in Eastern Romanian Carpathians
- Z98 EGU2012-5404
A. Di Piazza, E. Cordano, and E. Eccel
Use of a Weather Generator for analysis of projections of future daily temperature and its validation with climate change indices
- Z99 EGU2012-11538
N. Schütz, M. Hayn, M.C. Brown, and M. Holschneider
Quantifying conjoint patterns of multiple paleo signals based on Bayesian inversion
- Z100 EGU2012-5752
K. Rehfeld, N. Marwan, J. Heitzig, and J. Kurths
Pearson correlation estimation for irregularly sampled time series
- Z101 EGU2012-457
J. Pawlak and H. Hercman
Genetic algorithm as a correlation tool - speleothems stable isotope records example
- Z102 EGU2012-4595
G. Lenoir and M. Crucifix
Climate wavelet spectrum estimation under chronology uncertainties
- Z103 EGU2012-8357
D. Divine, F. Godtliabsen, and H. Rue
A modelling approach to assessing the timescale uncertainties in proxy series with chronological errors
- Z104 EGU2012-9263
F. Godtliabsen, L. Holmstrom, A. Miettinen, P. Erasto, **D. Divine**, and N. Koc
Pairwise Scale-Space Comparison of Time Series with Application to Climate Research

NP2.4/CL5.5 – Climate Sensitivity (co-organized) – Posters

Convener: M. Crucifix | Co-Conveners: H. A. Dijkstra, A. S. von der Heydt, P. Langen

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Henk Dijkstra, Michel Crucifix, Peter Langen, Anna von der Heydt

- XY278 EGU2012-1458
D. Dommenges
Model Climate Sensitivity Spread forced by Mean Sea Surface Temperature Biases
- XY279 EGU2012-4477
E. Exarchou, J.-S. Von Storch, and J. Jungclaus
The effect of tidally driven mixing on the transient climate response to CO₂ increase
- XY280 EGU2012-2414
S. Pueyo
Objective prior distribution of climate sensitivity

- XY281 EGU2012-7754
R. B. Skeie, T. Berntsen, M. Aldrin, M. Holden, and G. Myhre
 A lower and more constrained estimate of climate sensitivity using updated observations and detailed radiative forcing time series
- XY282 EGU2012-8125
P. Köhler, R.S.W. van de Wal, H.A. Dijkstra, and E.J. Rohling
 The climate sensitivity parameter during the last 800 kyr - offsets due to transient effects and state dependency
- XY283 EGU2012-9198
A Paul, S Mulitza, and M Losch
 Estimates of global ocean cooling at the Last Glacial Maximum based on sea-surface temperature and oxygen-isotope reconstructions
- XY284 EGU2012-9693
X. Zhu, I. Bordi, K. Fraedrich, and A. Sutera
 On the climate response to zero ozone
- XY285 EGU2012-13186
S. Lovejoy and D. Schertzer
 Scaling analysis of stochastic climate sensitivities
- XY286 EGU2012-7152
J. D. Annan and J. C. Hargreaves
 What do we know about climate sensitivity?

CL5.11 – EuroFORUM 2012: Major achievements and perspectives in scientific ocean and continental drilling – Orals

Convener: C. Escutia | Co-Conveners: U. Röhl, U. Harms, T. Wiersberg, R. Stein

Room: 16

Chairperson: n.n.

- 13:30–13:45 EGU2012-2847
J. Inwood, S. Morgan, A. Mcgrath, S. Davies, H. Foster, and J. Lofi
 Characterization of New Jersey Shelf Sedimentation using geochemical and physical properties: IODP Expedition 313
- 13:45–14:00 EGU2012-7352
T. Wiersberg, M.-L. Doan, A. M. Schleicher, K. Horiguchi, N. Eguchi, and J. Erzinger
 In situ gas concentrations in the Kumano forearc basin from drilling mud gas monitoring and sonic velocity data (IODP NanTroSEIZE Exp. 319 Site C0009)
- 14:00–14:15 EGU2012-9834
T. Litt, F. S. Anselmetti, M. N. Cagatay, R. Kipfer, S. Krastel, H.-U. Schmincke, and M. Sturm
 A 500,000-Year-Long Sediment Archive of Lake Van in Eastern Anatolia
- 14:15–14:30 EGU2012-9841
 S. Goldstein, **M. Stein**, Z. Ben-Avraham, A. Agnon, D. Ariztegui, A. Brauer, G. Haug, E. Ito, H. Kitagawa, A. Torfstein, and Y. Yasuda
 Extreme Dead Sea drying event during the last interglacial from the ICDP Dead Sea Deep Drill Core
- 14:30–14:45 EGU2012-13385
W. Clyde, S. Wing, P. Gingerich and the BBCP Science Team
 Bighorn Basin Coring Project (BBCP): High-Resolution Continental Records of Early Paleogene Hyperthermals
- 14:45–15:00 EGU2012-1824
R. Stein, B. Coakley, N. Mikkelsen, M. O'Regan, and C. Ruppel
 Future scientific drilling in the Arctic Ocean: Key objectives, areas, and strategies
- Chairperson: R. Stein, U. Harms
- 15:30–15:45 EGU2012-7682
T. Andrén, A. Bitinas, S. Björck, E. Emelyanov, J. Harff, M. Houmark-Nielsen, M. Jakobsson, J.B. Jensen, B.B. Jørgensen, A. Kotilainen, K.L. Knudsen, K. Lambeck, M. Moros, V. Spiess, S. U?cinowicz, S. Veski, and V. Zelchs
 The Baltic Sea IODP project "Paleoenvironmental evolution of the Baltic Sea Basin through the last glacial cycle
- 15:45–16:00 EGU2012-8958
C. Betzler, C. Hübscher, T. Lüdmann, J. Reijmer, G. Eberli, D. Kroon, A. Droxler, M. Tiwari, and E. Gischler
 The Neogene monsoon and oceanic currents in the Indian Ocean: The Maldives archipelago.
- 16:00–16:15 EGU2012-5807
C. Juhlin, D.G. Gee, H. Lorenz, C. Pascal, K. Pedersen, and C.-F. Tsang
 > Exploring the Scandinavian Mountain Belt by Deep Drilling (COSC)

- 16:15–16:30 EGU2012-7104
C Mevel, R Gatliff, J Ludden, G Camoin, B Horsfield, and A. Kopf
 Towards a distributed infrastructure for research drilling in Europe
- 16:30–16:45 EGU2012-12592
B. Esmael, R. Fruhwirth, A. Arnaout, and G. Thonhauser
 Operations Recognition at Drill-Rigs
- 16:45–17:00 EGU2012-14018
H.-J. Wallrabe-Adams, M. Diepenbroek, H. Grobe, R. Huber, U. Schindler, and J. Collier
 IODP Scientific Earth Drilling Information Service

CL5.11 – EuroFORUM 2012: Major achievements and perspectives in scientific ocean and continental drilling – Posters

Convener: C. Escutia | Co-Conveners: U. Röhl, U. Harms, T. Wiersberg, R. Stein

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: C. Escutia

- Z105 EGU2012-11635
T. Westerhold, M. Lyle, H. Pälike, U. Röhl, and R. Wilkens
 Middle to Late Eocene Carbonate Accumulation Events in the Equatorial Pacific - new geochemical records from IODP Exp 320/321 and ODP Leg 199
- Z106 EGU2012-5892
I. Neugebauer, A. Brauer, M.J. Schwab, U. Frank, P. Dulski, N. Waldmann, Y. Enzel, D. Ariztegui, E. Hadzhiivanova, and DSDDP Scientific Party
 The ICDP Dead Sea Deep Drilling Project: An overview and the potential for high-resolution records of floods and droughts in the Levant
- Z107 EGU2012-14264
J Hernandez-Molina, D. Stow, C. Alvarez-Zarikian and the Expedition 339 Scientists Team
 Onset, evolution and effects of the Mediterranean Outflow: Preliminary Results of IODP Expedition 339 in the Gulf of Cadiz
- Z108 EGU2012-6207
 M. Schreck, J. Matthiessen, and **R. Stein**
 The Neogene of the Iceland Sea - Paleoenvironmental reconstructions using marine palynomorphs
- Z109 EGU2012-6718
K. Katsuki, B.K. Khim, and B. Song
 Latest Miocene and Pliocene paleoceanographic condition in the Southern Ocean based on silicoflagellate assemblage
- Z110 EGU2012-12680
 J.J. Gonzalez, **C Escutia**, F.J. Espejo, T Williams, R.M. McKay, S. Passhler, T. van de Flierdt, L. Tauxe, H. Brinkhuis and the Carlota Escutia Team
 Records of glacial-interglacial variability during the Pliocene: IODP Expedition 318 - Site U1361
- Z111 EGU2012-12607
 M. Kobayashi, **M. Iwai** and the Expedition 318 Scientists Team
 Upper Miocene-Pliocene diatoms in the Southern Ocean: IODP Site U1361 on the continental rise off Wilkes Land, Antarctica
- Z112 EGU2012-14473
G.B. Dunbar
 Mg/Csea surface temperatures during the Marine Isotope Stage 31 collapse of the Ross Ice Shelf
- Z113 EGU2012-7650
B.D.A. Naafs, J Hefter, P Ferretti, R Stein, and G.H. Haug
 Sea surface temperatures did not control the first occurrence of Hudson Strait Heinrich Events during MIS 16
- Z114 EGU2012-9427
C Ohlendorf, C Gebhardt, and the PASADO Science team
 A step towards the identification of eolian input in the 51 ka BP sediment record of Laguna Potrok Aike in southeastern Patagonia
- Z115 EGU2012-12857
A. Fehr, R. Pechnig, J. Inwood, J. Lofi, F.P. Bosch, and C. Clauser
 Thermophysical properties derived from lab measurements and downhole logging at New Jersey Shallow Shelf (IODP Expedition 313)
- Z116 EGU2012-9581
M. Python, L. France, B. Abily, N. Abe, J.C. Alt, M.M. Godard, B. Ildfonse, J.H. Koepke, M.D. Kurtz, R. Oizumi, B.D. Payot and the Exp. 335 Science Party Team
 Petrographical and geochemical characteristics of the sheeted dyke-gabbro transition zone in ODP/IODP Hole 1256D

- Z117 EGU2012-6976
N. T. Arndt and the Barberton Drilling Team
Peering into the Cradle of Life: Scientific Drilling in the Barberton Greenstone Belt, South Africa
- Z118 EGU2012-3228
J. Trela, **E.C. Ferré**, J. Deans, R. Anma, A. Morris, and Expedition 335 Scientific Party
Shape-preferred orientation (SPO) of oceanic gabbros at IODP Hole 1256D: Implications for magmatic processes
- Z119 EGU2012-12550
A. Rüggeberg, A. Foubert, A. Vertino, D. Van Rooij, S. Spezzaferri, J.-P. Henriët, W.-C. Dullo, and COCARDE Science Community
COCARDE: new view on old mounds - an international network of carbonate mound research
- Z120 EGU2012-9416
C. Gebhardt, L. Naudts, L. De Mol, and M. De Batist
Seismic investigation of Lake Issyk-Kul, Kyrgyzstan
- Z121 EGU2012-7644
H. Lorenz and C. Juhlin
The Swedish Deep Drilling Program - projects and status 2012
- Z122 EGU2012-6463
A. Kopf, S. Hammerschmidt, E. Davis, D. Saffer, G. Wheat, A. LaBonte, R. Meldrum, M. Heesemann, H. Villinger, T. Freudenthal, V. Ratmeyer, J. Renken, M. Bergenthal, and G. Wefer
Simple, Affordable and Sustainable Borehole Observatories for Complex Monitoring Objectives
- Z123 EGU2012-7379
J.-E. Rosberg and **H. Lorenz**
A new scientific drilling infrastructure in Sweden
- Z124 EGU2012-12985
M. Rothfuss, E. Anders, W. H. Müller, T. Rothenwänder, and D. Wunsch
New tools and applications for the retrieval of cores under in situ pressure
- Z125 EGU2012-12209
A. Arnaout, R. Fruhwirth, M Winter, B. Esmael, and G. Thonhauser
Model-Based Hookload Monitoring and Prediction at Drilling Rigs using Neural Networks and Forward-Selection Algorithm
- Z126 EGU2012-1789
S Tavakoli, S. Poslad, R Fruhwirth, and M. Winter
Using Real-time Event Tracking Sensitivity Analysis to Overcome Sensor Measurement Uncertainties of Geo-Information Management in Drilling Disasters
- Z127 EGU2012-9363
B. Jandl, M. Winter, R. Fruhwirth, F. Riedel, and **H. Zeiner**
Rig Side Online Drilling Support System for Prediction and Prevention of Upcoming Crises
- Z128 EGU2012-8501
K. Behrends and R. Conze
Science Data Management for a CO₂-Sequestration project

CR10.10 – Ice-sheet and climate interactions (co-listed) – Orals

Convener: P. Huybrechts | Co-Conveners: A. Ganopolski, T. Fichefet

Room: 5

Chairperson: Philippe Huybrechts

- 13:30–13:45 EGU2012-2514
D. Dahl-Jensen
The role of the Greenland ice sheet in future sea level - based on palaeorecords from ice cores and present observations.
- 13:45–14:00 EGU2012-10049
W. J. van de Berg, M. M. Helsen, R. S. W. van de Wal, M. R. van den Broeke, and J. Oerlemans
Greenland Ice Sheet retreat during the Eemian
- 14:00–14:15 EGU2012-4426
A. Born and K.H. Nisancioglu
Melting of Northern Greenland during the last interglaciation
- 14:15–14:30 EGU2012-6978
U. Mikolajewicz, M. Vizcaíno, C. Rodehacke, and F. Ziemer
Anthropogenic climate change and the Greenland ice sheet
- 14:30–14:45 EGU2012-5482
A. Robinson, M. Perrette, R. Calov, and A. Ganopolski
Irreversible melting of the Greenland Ice Sheet

- 14:45–15:00 EGU2012-6262
P. L. Langen, A. M. Solgaard, and C. S. Hvidberg
 Self-inhibiting growth of the Greenland Ice Sheet
 Chairperson: Andrey Ganopolski
- 15:30–15:45 EGU2012-6651
L.M. Wake, G. A. Milne, A. J. Long, and S. A. Woodroffe
 The Medieval Warm Period-Little Ice Age Relative Sea Level Slowdown in Western Greenland: A response of the Greenland Ice Sheet to a phase shift of the North Atlantic Oscillation?
- 15:45–16:00 EGU2012-2829
J. L. Bamber, E. Behrens, C. Boening, M. van den Broeke, J. Lenaerts, J. Ettema, and E. Rignot
 Enhanced melting of the Greenland ice sheet and its impact on the Subpolar North Atlantic and AMOC
- 16:00–16:15 EGU2012-4286
M.E. Weber, P.U. Clark, W. Ricken, J.X. Mitrovica, S.W. Hostetler, and G. Kuhn
 Interhemispheric ice-sheet synchronicity during the Last Glacial Maximum
- 16:15–16:30 EGU2012-13667
R. DeConto, D. Pollard, and D. Kowalewski
 Antarctic ice sheet response to combined surface and oceanic sub-ice shelf melt during past interglacials and in the future
- 16:30–16:45 EGU2012-12573
J. Alvarez-Solas, M. Montoya, A. J. Robinson, R. Banderas-Carreño, C. Ritz, and A. Ganopolski
 Northern Hemisphere millennial-scale ice discharges as a response to oceanic forcing simulated with a hybrid ice-sheet/ice-shelf model
- 16:45–17:00 EGU2012-12551
N. Zeng
 The role of climate-icesheet-carbon interaction in glacial-interglacial cycles

GM9.2 – Glacial landforms and palaeoclimatic interpretation (co-listed) – Orals

Convener: S. Winkler | Co-Conveners: T. Davies, M.P. Kirkbride, L. Iturrizaga

Room: 21

Chairperson: Stefan Winkler

- 13:30–13:45 EGU2012-5435
S. Lukas, A. Graf, S. Coray, and C. Schlüchter
 Genesis, stability and preservation potential of large lateral moraines of Alpine valley glaciers - towards a unifying theory
- 13:45–14:00 EGU2012-3745
N. Andrés and D. Palacios
 Interpretation of the past glacial landforms from the present processes: the hypothesis of the secondary moraine
- 14:00–14:15 EGU2012-910
 L. Kasprzak, **M. Ewertowski**, I. Szuman, and A.M. Tomczyk
 Depositional efficiency of the weichselian ice sheet. Central-West Poland.
- 14:15–14:30 EGU2012-10154
B. Mächtle, A.S. Hein, T. Dunai, and B. Eitel
 Geomorphological evidence of warm-humid and cold-dry glaciations in the dry western Cordillera of the tropical Peruvian Andes
- 14:30–14:45 EGU2012-6256
D. McDougall
 Glaciation Style, Paraglacial Reworking and the Geomorphological Record: The Challenges of Reconstructing Younger Dryas Glaciers
- 14:45–15:00 EGU2012-6316
G. Roe
 The Natural Variability of Glaciers

GM9.2 – Glacial landforms and palaeoclimatic interpretation (co-listed) – Posters

Convener: S. Winkler | Co-Conveners: T. Davies, M.P. Kirkbride, L. Iturrizaga

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Stefan Winkler

- XL276 EGU2012-12364
P. Fu, J. Harbor, A.P. Stroeven, C. Hättestrand, M.W. Caffee, J. Heyman, and L.P. Zhou
 Paleo-glaciations of the Shaluli Shan, southeastern Tibetan Plateau

- XL277 EGU2012-5911
D.H. Roberts, B. Rea, T. Lane, C. Schnabel, and A. Rodes
The Uummannaq Ice Stream System, West Greenland
- XL278 EGU2012-2459
E. Ravier, J.F. Buoncristiani, S. Clerc, M. Guiraud, and E. Portier
Sedimentological and deformational evidence for a terrestrial deglaciation: Ballyhorsey, eastern Ireland
- XL279 EGU2012-2966
K. Leith, J. Moore, P. Sternai, S. Ivy-Ochs, F. Hermann, and S. Loew
Reconstruction of an extensive Younger Dryas glacial stadial in Canton Valais, Switzerland
- XL280 EGU2012-3573
L.L. Siame, H.-T. Chu, D.L. Boulès, F. Derrieux, L. Léanni, R.-F. Chen, and C.-C. Kang
Preservation of glacial landforms in the high mountains of Taiwan: Insights from in situ cosmogenic ¹⁰Be
- XL281 EGU2012-6570
E. Šink?n? and P. Šink?nas
Sedimentary structures from different proglacial glaciofluvial settings in Lithuania
- XL282 EGU2012-8762
P. Šink?nas, B. Karmaza, D. Karmazien?, V. Kazakauskas, and R. Waller
Architecture and sedimentation pattern of Skeidarárjökull end moraine at Gigjukvisl gap, Iceland
- XL283 EGU2012-7838
A. Rudoy
Study diluvium: general provisions.
- XL284 EGU2012-3664
J. Alcalá, D. Palacios, and L. Vázquez-Selém
36Cl Exposures Ages and Equilibrium Line Altitude (ELA) of the Ampato Volcanic Complex (Southern Peru).
- XL285 EGU2012-3683
J. Úbeda, D. Palacios, and L. Vázquez-Selém
Glacial and volcanic evolution on Nevado Coropuna (Tropical Andes) based on cosmogenic ³⁶Cl surface exposure dating
- XL286 EGU2012-3686
L. García-Sancho, **D. Palacios**, J.J. Zamorano, A. Green, M. Vivas, and A. Pintado
Recent Deglaciation of Darwin Mountains (Tierra de Fuego) after Little Ice Age: monitoring by photogrammetry, lichenometry, dendrochronology and field studies.
- XL287 EGU2012-3702
J. Úbeda, C. Giráldez, and D. Palacios
Equilibrium Line Altitudes and paleotemperature reconstructions from Nevado Hualcán (9°S) and Nevado Coropuna (15°S), Tropical Andes (Peru).
- XL288 EGU2012-3738
D. Palacios, N. Andrés, G. Vieira, J. Marcos, and L. Vázquez-Selem
Last Glacial Maximum and deglaciation of the Iberian Central System.
- XL289 EGU2012-3751
A. Gómez-Ortiz, **D. Palacios**, B. Palade, L. Vázquez-Selem, F. Salvador-Franch, and L.M. Tanarro
The deglaciation of the Sierra Nevada (southern Spain) and derived landforms
- XL290 EGU2012-3755
D. Palacios, L. García-Sancho, J.J. Zamorano, N. Andrés, and A. Pintado
The deglaciation of Iztaccíhuatl volcano (Mexico) from the Little Ice Age maximum to the present, determined by photogrammetry and lichenometry
- XL291 EGU2012-3759
D. Palacios, N. Andrés, J. Úbeda, J. Alcalá, J. Marcos, and L. Vázquez-Selem
The importance of polygenetic moraines in the paleoclimatic interpretation from cosmogenic dating
- XL292 EGU2012-4446
A. Perret, E. Reynard, and J.-J. Delannoy
Glacial history of a mid-altitude mountain massif: cartography and dating in the Chablais area (France, Switzerland)
- XL293 EGU2012-5070
M. Bichler, M. Reindl, H. Häusler, and J. M. Reitner
Chronology of glacial and periglacial deposits in front of the 1850 moraine of the Goldberg-Glacier, Sonnblick area (Salzburg/Austria)
- XL294 EGU2012-9576
R.A. Shakesby and J.A. Matthews
Pronival ramparts, moraines, rockglaciers or slope failures? Distinctions and palaeoclimatic pitfalls of misidentification.
- XL295 EGU2012-8258
M. Brook, D. Quincey, and S. Winkler
Moraine formation during an advance/retreat cycle at a temperate alpine glacier

- XL296 EGU2012-6451
N. Reznichenko, T.R.H. Davies, J. Shulmeister, and S. Winkler
 The rock avalanche sediment in moraines and its implication for palaeoclimate reconstruction
- XL297 EGU2012-13653
L. Iturrizaga
 Glacial landform assemblages in the catchment area of the upper Quitasaca valley (Cordillera Blanca, Perú)
- XL298 EGU2012-6508
I. W. Wolff and N. F. Glasser
 The Reconstruction and Climatic Implication of an Independent Palaeo Ice Cap in the Vicinity of the Lago Buenos Aires/Lago Pueyrredón Palaeo Ice Streams, Patagonia.

SSP4.1 – Walking on sunshine - Was human migration affected by past climate changes? (co-listed) – Orals

Convener: F.A. Viehberg | Co-Conveners: Klaus Reicherter, Schäbitz, J. M. Le Tensorer, F. Lehmkuhl, F. Wegmüller

Room: 41

Chairperson: Viehberg, Schäbitz, Le Tensorer

- 13:30–13:45 EGU2012-4541
J.F. Donges, R.V. Donner, M.H. Trauth, N. Marwan, H.J. Schellnhuber, and J. Kurths
 Nonlinear detection of paleoclimate-variability transitions possibly related to human evolution
- 13:45–14:00 EGU2012-2574
J.S. Compton
 Periodic isolation of the southern coastal plain of South Africa and the evolution of modern humans over late Quaternary glacial to interglacial cycles
- 14:00–14:15 EGU2012-11783
A.W. Kandel, M. Bolus, A.A. Bruch, M.N. Haidle, C. Hertler, and M. Märker
 Increasing behavioral flexibility? New archaeological and ecological approaches to understanding the Howieson's Poort in Southern Africa
- 14:15–14:30 EGU2012-6659
M.-A. Courty, J.-M. Le Tensorer, E. Boëda, S. Muhesen, E. Alsakhel, and F. Wegmüller
 Palaeolithic use of fossil combustible linked to singular environmental conditions : the long term el Kowm record (Syria).
- 14:30–14:45 EGU2012-5372
R. Orain, V. Lebreton, E. Russo Ermolli, A.-M. Sémah, S. Nomade, Q. Shao, J.-J. Bahain, and C. Peretto
 Human environment and climate during the Middle Pleistocene in southern Italy (Boiano basin, Molise)
- 14:45–15:00 EGU2012-388
N. Rudaya, L. Nazarova, D. Papin, and D. Nourgaliev
 Middle-Late Holocene environmental history of Kulunda (Southwestern Siberia): vegetation, climate, humans

SSP4.1 – Walking on sunshine - Was human migration affected by past climate changes? (co-listed) – Posters

Convener: F.A. Viehberg | Co-Conveners: Klaus Reicherter, Schäbitz, J. M. Le Tensorer, F. Lehmkuhl, F. Wegmüller

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Reicherter, Lehmkuhl, Wegmüller

- A388 EGU2012-9173
N. Hamon, P. Sepulchre, C. Contoux, J.-J. Jaeger, and G. Ramstein
 Middle Miocene Hominoids dispersion and radiation: impact of climate and vegetation changes in Europe
- A389 EGU2012-13
A.A. Bruch, C. Sievers, and L. Wadley
 Quantification of climate and vegetation from Southern African Middle Stone Age sites - an application using Late Pleistocene plant material from Sibudu, South Africa
- A390 EGU2012-7700
V. Foerster, M.H. Trauth, A. Junginger, A. Asrat, H.F. Lamb, T. Gebru, V. Wennrich, M. Weber, J. Rethemeyer, N. Nowaczyk, U. Frank, M.C. Brown, and F. Schaebitz
 Wet feet or walking on sunshine? Reconstruction of wet-dry variations in the source region of modern man: the Chew Bahir project, southern Ethiopia
- A391 EGU2012-14329
F. Wegmüller, F.A. Viehberg, and J.-M. Le Tensorer
 The Palaeolithic site of Hummal and its potential for paleoclimatic reconstruction
- A392 EGU2012-12419
F.A. Viehberg, E. Damc?, U.B. Ülgen, P. Roeser, S.O. Franz, N. Ça?atay, T. Litt, and M. Melles
 Palaeoenvironmental changes in the Marmara region (Turkey) during late Pleistocene and Holocene. Implication for Neo- and Palaeolithic communities.

- A393 EGU2012-8461
K. Panagiotopoulos, A. Aufgebauer, F. Schäbitz, and B. Wagner
Lake Prespa palaeoenvironment since the MIS 5: a continuous record from a mid-altitude site on modern human's way to Europe.
- A394 EGU2012-7625
N. Höbig, M.E. Weber, M. Kehl, G.-C. Weniger, R. Juliá, M. Melles, R.-H. Fülöp, H. Vogel, and K. Reicherter
60 ka lacustrine record from Lake Banyoles (NE-Spain): Environmental change with respect to human occupation
- A395 EGU2012-4029
D. Faust and D. Wolf
Latest Pleistocene and Holocene river dynamics of the Guadalete River (SW-Andalusia)
- A396 EGU2012-10280
J. A. Gomes, A. Ramos-Pereira, and J. Trindade
Late Holocene evolution of the River Bensafrim estuary, Lagos (Portugal) - Gearchaeological remarks concerning geomorphological changings
- A397 EGU2012-8823
A. Kadereit, C.-J. Kind, and G.A. Wagner
The Weichselian (Würmian) Pleniglacial chronology of the Nussloch loess section/Germany revisited. Implications for the matching of pedosedimentary units with Greenland stadial and interstadial periods.
- A398 EGU2012-14430
F. Turner, J.F. Tolksdorf, F. Viehberg, A. Schwarz, U. von Bramann, F. Bittmann, K. Kaiser, A. Schwalb, U. Staesche, K. Breest, R. Pott, and S. Veil
Environmental transformations and cultural changes: A multidisciplinary case study for the Late Glacial and Final Palaeolithic from Northern Germany
- A399 EGU2012-488
T. Swierczynski, S. Lauterbach, P. Dulski, and A. Brauer
Neolithic Mondsee Culture - Living on lakes and living with floods
- A400 EGU2012-8867
B. Mächtle, K. Schittek, M. Forbriger, F. Schäbitz, and B. Eitel
A see-saw of pre-Columbian boom regions in southern Peru, determined by large-scale circulation changes
- A401 EGU2012-1738
W.-S. Chen and H.-C. Yang
Shoreline changes of Taiwan since the Last Glacial Maximum

SSS7.5 – Biochar for soil remediation and global warming mitigation (co-listed) – Orals

Convener: J. Paz-Ferreiro | Co-Conveners: A. M. Tarquis, G. Gascó, A. M. Méndez Lázaro, L. Li, N. J. Ostle, P. Genxing, B. Glaser, P. Pereira, A. Merino

Room: 3

Chairperson: J. Paz-Ferreiro, G. Gascó, B. Glaser

- 10:30–10:45 EGU2012-2126
K. Kuzyakov, I. Bogomolova, and B. Glaser
Decomposition and transformation of ¹⁴C labeled black carbon in soil
- 10:45–11:00 EGU2012-4498
J. Paz-Ferreiro, G. Gascó, A. Méndez, N.J. Ostle, and N.P. McNamara
Effects of biochar on greenhouse gas emissions from arable and bioenergy crops
- 11:00–11:15 EGU2012-241
H.-P. Schmidt
Biochar as carrier for plant nutrients and microorganisms - techniques of agro-activation
- 11:15–11:30 EGU2012-3776
Y.Y. Fang, **B. Singh**, B.P. Singh, and E. Krull
Mineralization of biochars in soils of contrasting mineral composition from Australia
- 11:30–11:45 EGU2012-5141
R. Felber, J. Leifeld, and A. Neftel
Biochar application reduces N₂O emission in intensively managed temperate grassland
- 11:45–12:00 EGU2012-11836
B. Wilske, M. Bai, C. Eckhardt, C. Kammann, P. Kraft, M. Bach, H.-G. Frede, and L. Breuer
Biochar degradation in different soils

LUNCH BREAK

Chairperson: J. Paz-Ferreiro, A. Merino, P. Pereira

- 13:30–13:45 EGU2012-12780
F.G.A. Verheijen, S. Jeffery, A.C. Bastos, and M. van der Velde
Biochar effects on soils: overview and knowledge gaps
- 13:45–14:00 EGU2012-1006
Dr Sohi and Dr Cross
Toward a predictive understanding for the function of biochar in soil
- 14:00–14:15 EGU2012-547
M. Rack and J. Woods
Life Cycle Assessment of Biochar - EuroChar Project
- 14:15–14:30 EGU2012-994
S. D. C. Case, J. Whitaker, N. P. McNamara, and D. S. Reay
Biochar suppression of N₂O emissions from an agricultural soil: effects and potential mechanisms
- 14:30–14:45 EGU2012-1584
A. Watzinger, S. Feichtmair, F. Rempt, E. Anders, B. Wimmer, B. Kitzler, S. Zechmeister-Boltenstern, M. Horacek, F. Zehetner, S. Kloss, S. Richoz, and G. Soja
The effect of biochar amendment on the soil microbial community - PLFA analyses and ¹³C labeling results
- 14:45–15:00 EGU2012-656
J. Chen, J. Qu, X. Liu, J. Zheng, L. Li, and G. Pan
Inconsistent Changes in Microbial Community Structure and Abundance with Biochar Amendment in Rice Paddy Soils from South China
- Chairperson: J. Paz-Ferreiro, N. Ostle, L. Li
- 15:30–15:45 EGU2012-12040
G. Rein, R. Hadden, and C. Zarcone
From organic matter to pyrogenic char to ash: the role of smouldering combustion in wildfires
- 15:45–16:00 EGU2012-10369
E. Michie, P. Panzacchi, C.A. Davies, S. Toet, and P. Ineson
Soil-plant-biochar interactions and effects on soil C and N cycling in a wheat greenhouse pot experiment.
- 16:00–16:15 EGU2012-665
R. Bian, L. Cui, G. Pan, and L. Li
Biochar amendment reduces rice Cd uptake in polluted and unpolluted paddy soils: a long term field experiment
- 16:15–16:30 EGU2012-781
A. Brennan and C. Switzer
Biochar and the remediation of soil micropollutants
- 16:30–16:45 EGU2012-10335
P. Panzacchi, C.A. Davies, M. Ventura, E.J. Michie, and G. Tonon
Soil GHG emissions in a Miscanthus plantation as affected by increasing rates of biochar application.
- 16:45–17:00 EGU2012-1114
HS Schulz and BG Glaser
Compared Biochar and Compost effects on plant growth and soil factors as reported for three consequent greenhouse trial setups

SSS7.5 – Biochar for soil remediation and global warming mitigation (co-listed) – Posters

Convener: J. Paz-Ferreiro | Co-Conveners: A. M. Tarquis, G. Gascó, A. M. Méndez Lázaro, L. Li, N. J. Ostle, P. Genxing, B. Glaser, P. Pereira, A. Merino

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: A.M. Mendez, J. Paz-Ferreiro, A.M. Tarquis

- XY613 EGU2012-539
G. Bárcenas-Moreno, E. Escalante, A. Pérez-Bejarano, L.M. Zavala, and A. Jordán
Microbial response to the effect of quantity and quality soil organic matter alteration after laboratory heating
- XY614 EGU2012-612
A. Zhang, Q. Hussian, L. Li, J. Zheng, G. Pan, X. Zhang, and R. Bian
Biochar amendment decreased global warming potential of a Cd/Pb contaminated paddy ecosystem from the Tai Lake plain, China
- XY615 EGU2012-1274
P. Jiménez-Pinilla, E. Lozano, J. Mataix-Solera, V. Arcenegui, L.M. Zavala, A. Jordán, A. Morugán, A. Pérez-Bejarano, and G.M. Bárcenas
The role of ash on soil water repellency changes in a Mediterranean area affected by a forest fire: a field conditions study

- XY616 EGU2012-1599
K. Friede, **K. Rößler**, K. Terytze, I. Vogel, F. Worzyk, R. Schatten, R. Wagner, M. Haubold-Rosar, A. Rademacher, U. Weiß, K. Weinfurter, D. Drabkin, S. Zundel, and S. Trabelsi
Sustainable land-use by regional energy and material flow management using "Terra-Preta-Technology"
- XY617 EGU2012-1910
P. Pereira, A. Cerdà, X. Ubeda, and J. Mataix-Solera
Vegetation ash erosion. State-of-the-art and future perspectives.
- XY618 EGU2012-2103
B. Omil, M.T. Fonturbel, J.A. Vega, M.A. Balboa, and **A. Merino**
Soil organic matter dynamics and microbial activity in a cropland and soil treated with wood ash containing charcoal
- XY619 EGU2012-3674
I. Campos, N. Abrantes, P. Pereira, C. Vale, A. Ferreira, and J.J. Keizer
Characterization of polycyclic aromatic hydrocarbons and metals in ashes released from a forest fire
- XY620 EGU2012-4061
J.A. Alburquerque, J.M. Calero, R. Villar, V. Barrón, J. Torrent, M.C. del Campillo, and A. Gallardo
Effects of biochar produced from different feedstocks on soil properties and sunflower growth
- XY621 EGU2012-5701
P. Pereira and X. Ubeda
Modelling ash extractable Total Phosphorous and Total Sulphur distribution after a forest fire
- XY622 EGU2012-8010
K. Rasmusson, A. Niemi, F. Fagerlund, J. Carrera, and Y. Tsang
Identification of scale effects in dissolution trapping from the response of a push-pull experiment
- XY623 EGU2012-9501
E. Agrafioti, G. Bouras, D. Kalderis, and E. Diamadopoulos
Pyrolysis of Greek sewage sludge to produce biochars for soil amendments
- XY624 EGU2012-10996
S.A. McCormack, A.J. Vanbergen, R.D. Bardgett, D.W. Hopkins, and N. Ostle
Biochar and biological carbon cycling in temperate soils
- XY625 EGU2012-11763
G. Ojeda, X. Domene, S. Mattana, J.P. Sousa, O. Ortiz, P. Andres, and J.M. Alcañiz
Soil biochar amendments: type and dose effects
- XY626 EGU2012-12323
B. Beckingham, J.L. Gomez-Eyles, S. Kwon, G. Riedel, C. Gilmour, and U. Ghosh
Sorption of priority pollutants to biochars and activated carbons for application to soil and sediment remediation
- XY627 EGU2012-13535
A.C. Bastos, N. Abrantes, M. Prodana, F. Verheijen, J.J. Keizer, A.M.V.M. Soares, and S. Loureiro
Effects of aqueous soil-biochar extracts on representative aquatic organisms: a first evaluation
- XY628 EGU2012-4409
G. Gascó, J. Paz-Ferreiro, F. Araujo, F. Guerrero, and **A. Méndez**
Study of heavy metal bioavailability in a soil contaminated by Ni+2 after application of biochar prepared from olive mill pomace
- XY629 EGU2012-596
X. Liu, G.X Pan, L.Q. Li, and T. Zhou
Influence of biochar amendment on greenhouse gases emission and rice production in paddy field, China
- XY630 EGU2012-607
L. Cui, G. Pan, L. Li, and J. Yan
Effect of Biochar Amendment on Bioavailability and the Uptake of Cd by Crops in a Contaminated Paddy
- XY631 EGU2012-1446
M. Alhassan and J.M. Andresen
Effect of bone on the pyrolysis product distribution and composition in a fixed bed reactor
- XY632 EGU2012-2413
C. Niggli and H.-P. Schmidt
Biochar in viticulture
- XY633 EGU2012-4385
G. Gascó, J. Paz-Ferreiro, F. Araujo, F. Guerrero, and A. Méndez
Remediation of a contaminated soil by Ni+2 after application of biochar prepared from de-inking paper sludge: Influence on enzyme activities
- XY634 EGU2012-5193
I. Hilber, F. Blum, S. Hale, G. Cornelissen, H.P. Schmidt, and T.D. Bucheli
Total and bioavailable PAH concentrations in biochar - a future soil improver
- XY635 EGU2012-5224
I. Bargmann, J.M. Greef, and M. Kücke
Impact of hydrochar application on soil nutrient dynamics and plant availability

- XY636 EGU2012-6395
D. Werner, K. Bushnaf, P. Meynet, S. Puricelli, and S. Saponaro
Effect of biochar on the fate of volatile petroleum hydrocarbons and soil microbiology in an aerobic sandy soil
- XY637 EGU2012-6432
S. Kloss, F. Zehetner, S. Feichtmair, B. Wimmer, S. Zechmeister-Boltenstern, B. Kitzler, A. Watzinger, and G. Soja
Biochar application to temperate soils - effects on soil fertility and crop yield
- XY638 EGU2012-13770
L. Li, Y. Liu, W. Pan, G. Pan, J. Zheng, J. Zheng, and X. Zhang
Effects of Amendment of Biochar and Pyroligneous Solution from wheat straw pyrolysis on Yield and soil and crop salinity in a Salt stressed cropland from Central China Great Plain
- XY639 EGU2012-1637
B. Weiner, I. Baskyr, J. Pörschmann, and F.-D. Kopinke
Fate of Organic Micropollutants during Hydrothermal Carbonization

Wednesday, 25 April

CL2.8/AS1.13/ST6.5 – Impact of solar and geomagnetic variabilities on the Earth's lower,middle and upper atmospheres (co-organized) – Orals

Convener: F.-J. Lübken | Co-Conveners: J. Liliensten, T. Dudok de Wit, M. Kaufmann, P. Preusse

Room: 15

Chairperson: Jean Liliensten

- 10:30–11:00 EGU2012-7630
N.A. Krivova, W. Ball, Y.C. Unruh, and S.K. Solanki
Solar Spectral Irradiance Variations
- 11:00–11:15 EGU2012-1520
T. Woods
Solar Irradiance Variability: Comparisons of Observations over Solar Cycles 21-24
- 11:15–11:30 EGU2012-1920
S. C. Solomon and **L. Qian**
The Interaction of Solar and Geomagnetic Activity with Climate Change in the Thermosphere
- 11:30–11:45 EGU2012-2344
M. Fedrizzi and **S.L. Bruinsma**
Modeling Space Weather in the thermosphere
- 11:45–12:00 EGU2012-8702
M. Rapp, R. Latteck, P. Hoffmann, M. Zecha, G. Stober, T. Renkwitz, and W. Singer
Mid-mesospheric radar echoes: recent observations with a novel MST-radar and implications for the scattering mechanism

LUNCH BREAK

Chairperson: Jean Liliensten

- 13:30–13:45 EGU2012-8267
A. Seppälä
Particle precipitation impacts on the atmosphere
- 13:45–14:15 EGU2012-7098
P. T. Verronen, M.E. Andersson, C.J. Rodger, M.A. Clilverd, S. Wang, and B.R. Carson
Precipitating Radiation Belt Electrons and Mesospheric Odd Hydrogen
- 14:15–14:30 EGU2012-7368
M. Sinnhuber, N. Wieters, and H. Winkler
Energetic particle precipitation into the middle atmosphere: measurements and model predictions
- 14:30–15:00 EGU2012-2828
F.-J. Lübken
Highlights of the CAWSES programme in Germany
- Chairperson: Franz-Josef Luebken
- 15:30–16:00 EGU2012-11335
C. von Savigny, C. Robert, N. Rahpoe, H. Winkler, E. Becker, H. Bovensmann, M. T. DeLand, and J. P. Burrows
On the impact of short-term solar variability on the polar summer mesopause and noctilucent clouds
- 16:00–16:15 EGU2012-2860
U. Cubasch, U. Langematz, A. Kubin, C. Brühl, T. Spanghel, and A. Baumgärtner
Solar Effects on Chemistry and Climate Including Ocean Interactions
- 16:15–16:30 EGU2012-12600
J.G. Anet, **E. Rozanov**, and T. Peter
FUPSOL: Modelling the Future and Past Solar Influence on Earth Climate
- 16:30–16:45 EGU2012-10845
A. Kubin, J. Abalichin, B. Ayarzagüena, U. Langematz, and P. Jöckel
A model study on the downward propagation of the 11-year solar signal in a warming climate
- 16:45–17:00 EGU2012-8757
S. Ineson, A. A. Scaife, J. R. Knight, J. C. Manners, N. J. Dunstone, L. J. Gray, and J. D. Haigh
Solar forcing of winter climate variability in the northern hemisphere

CL2.8/AS1.13/ST6.5 – Impact of solar and geomagnetic variabilities on the Earth's lower,middle and upper

atmospheres (co-organized) – Posters

Convener: F.-J. Lübken | Co-Conveners: J. Liliensten, T. Dudok de Wit, M. Kaufmann, P. Preusse

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Franz-Josef Luebken

- Z1 EGU2012-2905
F.-J. Lübken and U. Berger
Temperature and ice layer trends in the summer middle atmosphere
- Z2 EGU2012-3030
H. Lühr and K. Häusler
Dependence of the thermospheric density on solar and magnetic activity
- Z3 EGU2012-3781
P. Stauning
Solar activity - climate relations: A critical review.
- Z4 EGU2012-3859
M. Smith and **A. J. McDonald**
Using finite-time Lyapunov exponents to investigate the effect of stratospheric sudden warmings on the polar vortices
- Z5 EGU2012-3873
A. J. McDonald
Inter-hemispheric variations in stratopause structure
- Z6 EGU2012-4267
L. Sfica and M. Voiculescu
Interplay between effects of solar forcing and internal climatic factors on tropospheric and stratospheric temperature anomalies in the Northern Hemisphere
- Z7 EGU2012-4960
J. Hildebrand, G. Baumgarten, J. Fiedler, and F.-J. Lübken
Simultaneous wind and temperature measurements with a twin Doppler lidar in Northern Norway
- Z8 EGU2012-5303
M. Kaufmann, H. Schmidt, C. Lehmann, M. Ern, and M. Riese
The evolution of atomic hydrogen between 2002 and 2008
- Z9 EGU2012-5427
J. Höffner, R.J. Morris, B. Kaifler, T. Viehl, and F.-J. Lübken
First results of combined Fe-lidar/Radar measurements at Davis, 69° S.
- Z10 EGU2012-5445
D.A. Newnham, P.J. Espy, M.A. Clilverd, C.J. Rodger, A. Seppälä, D.J. Maxfield, P. Hartogh, K. Holmén, and R.B. Horne
Observations of nitric oxide in the Antarctic middle atmosphere during recurrent geomagnetic storms
- Z11 EGU2012-5513
J. O'Regan, J-P. Muller, and S. Matthews
Towards understanding the nature of any relationship between Solar Activity and Cosmic Rays with thunderstorm activity and lightning discharge
- Z12 EGU2012-5726
S. Dewitte, S. Mekaoui, A. Chevalier, C. Conscience, E. Janssen, M. Van Ruymbeke, Z. Phing, J-P. Noel, M. Meftah, and G. Thuillier
Science results from the Sova-Picard Total Solar Irradiance instrument
- Z13 EGU2012-6059
M. Kopp, M. Gerding, J. Höffner, and F.-J. Lübken
Tidal signatures in temperature data derived by lidars in the mid-latitude middle atmosphere
- Z14 EGU2012-6453
C. Delaney, S. G. Jennings, and A. Ó Rodaighe
Polar Mesospheric Cloud Occurrence from Geostationary Satellite Observations in the Northern Hemisphere for the Period 2001 to 2005
- Z15 EGU2012-6797
V. R. Narukull, T. Tsuda, D.M. Riggan, and S. Gurubaran
Long-term variability of mean winds in the mesosphere and lower thermosphere within $\pm 22^\circ$
- Z16 EGU2012-6852
J. Grahn and A. J. McDonald
Testing metrics of mixing using a chaotic advection model
- Z17 EGU2012-6998
L. Hejkrlik
Spectral analysis of luni-solar signal in daily meteorological data at Prague-Klementinum 1775 to 2011

- Z18 EGU2012-7643
P. Francia and M. Vellante
Long term changes in the plasmaspheric density through measurements of the ULF resonance frequency at low latitude
- Z19 EGU2012-7645
S. Versick, B. Funke, A. Gardini, G. Stiller, T. von Clarmann, and O. Kirner
Comparison of EMAC model results to satellite observations in the winter 2008/09 within the HEPPA-II intercomparison
- Z20 EGU2012-7767
A.L. Morozova and M.A. Pais
Different forcings and their effect on temperature variations in Portugal: volcanic eruptions, anthropogenic aerosols, atmospheric circulation and solar activity
- Z21 EGU2012-7887
V. Dobrica, C. Suteanu, and C. Demetrescu
Solar/geomagnetic signature in climate parameters. A comparative analysis of temperature evolution in Atlantic Canada and Central-Eastern Europe
- Z22 EGU2012-8254
G. Cessateur, A.I. Shapiro, M. Dominique, M. Kretzschmar, N. Krivova, A.V. Shapiro, W. Schmutz, M. Schoell, S. Solanki, R. Tagirov, G. Thuillier, C. Wehrli, and K.L. Yeo
Solar Spectral Irradiance as observed by LYRA/PROBA2 and PREMOS/PICARD
- Z23 EGU2012-8271
J. O. Pepke Pedersen
Ion-induced nucleation of the sulfuric acid - water system
- Z24 EGU2012-8338
S. Kowalewski, M. Palm, and J. Notholt
The Mesospheric OH* layer above Spitsbergen: Investigation of polar mesospheric dynamics and temperature trends by means of ground based OH* airglow measurements and model studies
- Z25 EGU2012-8347
M. Palus and D. Novotna
Phase coherence between solar/geomagnetic activity and climate variability from the stratosphere to the troposphere and the North Atlantic Oscillation
- Z26 EGU2012-8701
S. Kalisch, P. Preusse, M. Ern, S. D. Eckermann, and M. Riese
Gravity wave - planetary wave interaction simulated by gravity wave ray-tracing
- Z27 EGU2012-8881
N. Bergeot, I. Tsagouri, C. Bruyninx, J. Legrand, J.-M. Chevalier, P. Defraigne, Q. Baire, and E. Pottiaux
Effect of Space Weather on Ionospheric Total Electron Content Variation during the 23rd Solar Cycle.
- Z28 EGU2012-9292
L.E.A. Vieira, T. Dudok de Wit, and M. Kretzschmar
Modeling the evolution of the total and solar irradiance based on HMI/SDO magnetograms and solar surface magnetic flux transport models
- Z29 EGU2012-9589
T. Asikainen, V. Maliniemi, and K. Mursula
The corrected NOAA/POES energetic particle database for space climate studies
- Z30 EGU2012-10210
H. Lu, C. Franzke, M. Jarvis, and O. Martius
Possible Effect of Solar Wind on Rossby Wave Propagation and Breaking
- Z31 EGU2012-10255
V. Maliniemi, T. Asikainen, and K. Mursula
Correlation between surface temperature variations and energetic electron precipitation in northern hemisphere winter during the last three solar cycles
- Z32 EGU2012-10492
O. K. Kvissel, Y. J. Orsolini, and F. Stordal
Formation of stratospheric nitric acid by a hydrated ion cluster reaction: chemical and dynamical effects of energetic particle precipitation on the middle atmosphere
- Z33 EGU2012-10752
T. Reddmann, B. Funke, G. Stiller, S. Versick, J.M. Wissing, R. Ruhnke, W. Kouker, and A. Vlasov
The thermospheric NOx intrusion in Arctic winter 2008/2009
- Z34 EGU2012-10815
C. G. Hoffmann, D. E. Kinnison, R. R. Garcia, M. Palm, J. Notholt, U. Raffalski, and J. Groß
CO-based examination of the Arctic middle atmosphere dynamics in the Specified Dynamics version of the Whole Atmosphere Community Climate Model (SD-WACCM) using ground-based CO observations from Kiruna
- Z35 EGU2012-11122
I. Cnossen and **H. Lu**
The Vertical Connection of the QBO-Modulated 11-year Solar Cycle Signature during NH Early Winter

- Z36 EGU2012-11861
B. Strelnikov, A. Szewczyk, and M. Rapp
In-situ measurements of small-scale structures in neutrals and plasma species during ECOMA-2010
- Z37 EGU2012-12709
T. Demissie, M. Daae, N. Kleinknecht, and P. Espy
Planetary waves during a moderate geomagnetic storm
- Z38 EGU2012-2496
S. Misios and H. Schmidt
Model assessment of the response of the tropical lower stratosphere to the 11-yr solar cycle
- Z39 EGU2012-7239
G. Chiodo, D.R. Marsh, N. Calvo, and K. Matthes
The impact of volcanic events and ENSO on the detection of the solar cycle signal in the tropical lower stratosphere
- Z40 EGU2012-3330
K. Rypdal
Global temperature response to radiative forcing: solar cycle versus volcanic eruptions
- Z41 EGU2012-7456
M. Ern, P. Preusse, S. Kalisch, M. Kaufmann, and M. Riese
Global distribution of quasi two-day waves in the mesosphere and possible effects of gravity waves

CL3.1 – Extreme Events and Impacts – Orals

Convener: M. Beniston | Co-Conveners: S. Goyette, P. M. Della-Marta

Room: 13

Chairperson: Stephane GOYETTE

- 08:30–08:45 EGU2012-13967
S Rahmstorf, D. Coumou, and A. Robinson
A Fivefold Increase in Monthly Heat Records
- 08:45–09:00 EGU2012-4373
S. Parey
The role of variability in the change of temperature extremes
- 09:00–09:15 EGU2012-6504
H. de Vries, R.J. Haarsma, and W. Hazeleger
On Future European Cold Spells
- 09:15–09:30 EGU2012-5992
J.M. Loriaux, G. Lenderink, A.P. Siebesma, and S.R. de Roode
Understanding the unexpectedly high increase of observed (sub-)hourly precipitation extremes with temperature
- 09:30–09:45 EGU2012-11917
T. Kruschke, P. Lorenz, R. Osinski, M. Voigt, G.C. Leckebusch, and U. Ulbrich
Extreme Wind Gusts within European Winter Storms estimated from Dynamical and Statistical Downscaling
- 09:45–10:00 EGU2012-1356
A.M. Monteiro, C.V. Carvalho, SV Velho, and CS Sousa
Indexes to anticipate negative impacts of heat waves in urban Mediterranean environments
- 10:00–10:15 EGU2012-9288
A. Schindler, D. Maraun, and J. Luterbacher
Changes in the annual cycle of heavy precipitation events across the UK in future projections

COFFEE BREAK

Chairperson: Stephane GOYETTE

- 10:30–10:45 EGU2012-2794
F. Giorgi, E. Coppola, E.I. Soon, N. Diffenbaugh, X.J. Gao, L. Mariotti, and Y. Shi
Higher hydroclimatic intensity with global warming
- 10:45–11:00 EGU2012-9684
C. Radermacher, L. Tomassini, and D. Jacob
Validation of heavy precipitation and thermodynamic relations in the regional climate model REMO
- 11:00–11:15 EGU2012-563
R.M.S. Yu, T. Osborn, D. Conway, R. Warren, and R. Hankin
European drought under climate change and an assessment of the uncertainties in projections

- 11:15–11:30 EGU2012-4806
B. S. Madsen, J. Ravnbøl, P.D. Ditlevsen, and F. Kwasniok
 Regime-dependent statistics of extremes
- 11:30–11:45 EGU2012-2264
T. Lung, C. Lavalle, R. Hiederer, and L.M. Bouwer
 A regional level multi-hazard impact assessment based on indicators of climatic and non-climatic change

CL3.1 – Extreme Events and Impacts – Posters

Convener: M. Beniston | Co-Conveners: S. Goyette, P. M. Della-Marta

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: NN

- Z42 EGU2012-79
Y. Kuleshov, D. Jones, and C. M. Spillman
 Climate extremes in the Pacific: improving seasonal prediction of tropical cyclones and extreme ocean temperatures to improve resilience
- Z43 EGU2012-82
S. Choy, C. Wang, K. Zhang, and Y. Kuleshov
 Detection of severe weather events using new remote sensing methods
- Z44 EGU2012-756
G. Zittis, P. Hadjinicolaou, and J. Lelieveld
 Role of soil moisture in the amplification of climate warming in the Eastern Mediterranean and Middle East
- Z45 EGU2012-835
E. B. Bartha, R. Pongracz, and J. Bartholy
 Analysis of heat wave occurrences in the Carpathian basin using regional climate model simulations
- Z46 EGU2012-962
M. S. Reboita, R. P. da Rocha, and C. G. Dias
 Extreme Events in Present Climate Simulated by RegCM3 Downscaling over the South America
- Z47 EGU2012-1754
H. Davidkovová, J. Kyselý, E. Plavcová, A. Urban, B. Kriz, and J. Kyncl
 Impacts of temperature extremes on cardiovascular morbidity and mortality in the Czech Republic
- Z48 EGU2012-2007
I. Tosic and M. Unkasevic
 Extreme temperature indices over Serbia
- Z49 EGU2012-2295
M. Unkasevic and I. Tosic
 Analysis of extreme dry and wet periods in Belgrade using the Standardized Precipitation Index
- Z50 EGU2012-3037
A.A. Pasqua and O. Petrucci
 The impact of two damaging hydrogeological events in Calabria (southern Italy)
- Z51 EGU2012-3198
S. Kawazoe and W. Gutowski
 Physical Behavior of Precipitation Extremes in CMIP5 GCMs and Observations
- Z52 EGU2012-3848
Y Xu
 Projected changes of precipitation extremes over China by CMIP5
- Z53 EGU2012-4032
K. Friedrich
 Knowledge Data Base of extreme weather events in Europe
- Z54 EGU2012-4405
F. Cioffi, E. Rus, C.K. Krishnamurthy, C. Karamperidou, and U. Lall
 Space-time structure of extreme precipitation in Europe over the last century: a climate perspective
- Z55 EGU2012-4627
Y. Y?Imaz and H. N. Dalfes
 Extreme Value Statistics of Downscaled Climate Projections for Turkey and Its Region
- Z56 EGU2012-5481
N. Groll and B. Hünicke
 Baltic Sea wave conditions in a changing climate
- Z57 EGU2012-6311
A. Valerianova and E. Holtanova
 Winter minimum and maximum air temperature in the Czech Republic
- Z58 EGU2012-6714
O.-Y. Kim
 Statistical assessment of changes in daily precipitation extremes over the Asia-Pacific Region

- Z59 EGU2012-6750
S. Yin, J. Feng, and J. Li
Influence of the preceding winter Northern Hemisphere annular mode on the spring extreme low temperature events in the north of eastern China
- Z60 EGU2012-6923
M. Wehner
Projections of Extreme Weather in a Changing Climate: Balancing Confidence and Uncertainty
- Z61 EGU2012-7930
A. Toreti, I. Smith, P. Naveau, and E. Xoplaki
A Kernel based approach for the analysis of extreme precipitation events
- Z62 EGU2012-8538
V. Blanka and G. Mez?si
The changes of flash flood hazard in Hungary due to climate change
- Z63 EGU2012-8848
E. Bucchignani, P. Mercogliano, M. Montesarchio, P. Capuano, M. Sellerino, A. Di Ruocco, and W. Kombe
Regional and sub-regional climate simulations over Sub-Saharan African regions and the influence on the heat waves hazard
- Z64 EGU2012-10005
P. M. Ruti, A Dell'Aquila, and F Giorgi
Understanding and attributing the Euro-Russian summer blocking signatures
- Z65 EGU2012-10090
Matulla, Lexer, and **Zuvela-Aloise**
DISTURBANCE - Modeling extreme events and disturbance regimes in forest ecosystems under climate change
- Z66 EGU2012-11806
M. Voigt, P. Lorenz, T. Kruschke, R. Osinski, U. Ulbrich, and G. C. Leckebusch
Statistical Downscaling of Gusts During Extreme European Winter Storms Using Radial-Basis-Function Networks
- Z67 EGU2012-12037
Cs.N. Péliné, K. Radics, and J. Bartholy
Regional tendencies of extreme wind characteristics from measured, reanalysis and simulated time series over Hungary
- Z68 EGU2012-12659
G. Lenderink, G.J van Oldenborgh, and J.J. Attema
Scaling and trends of hourly precipitation extremes in a warming climate
- Z69 EGU2012-13369
H. Ágústsson, Ó. Rögnvaldsson, H. Ólafsson, and E. M. Einarsson
Simulations of precipitation in a future climate scenario at various horizontal resolutions. Part I - Scandinavia
- Z70 EGU2012-13407
Ó. Rögnvaldsson, H. Ágústsson, H. Ólafsson, and E. M. Einarsson
Simulations of precipitation in a future climate scenario at various horizontal resolutions. Part II - Iceland
- Z71 EGU2012-13529
M.I.P. de Lima, F.E. Santo, and A.M. Ramos
Seasonal trends in precipitation and surface air temperature extremes in mainland Portugal, 1941-2007
- Z72 EGU2012-13745
H. Ólafsson, H. Ágústsson, Ó. Rögnvaldsson, and E.M. Einarsson
Winds over Iceland in current and future climate
- Z73 EGU2012-13845
N. K. Awan and H. Formayer
Climatology of cut-off low systems in the Greater European Alpine region

CL3.3/NP5.4 – Centennial, decadal, seasonal and monthly climate predictions (co-organized) – Orals
Convener: M. A. Liniger | Co-Conveners: G. J. van Oldenborgh, S. Vannitsem, F. J. Doblas-Reyes, R. Knutti, J. D. Annan, K. Frieler

Room: 13

Chairperson: n.n.

- 13:30–13:45 EGU2012-1888
H.L. Cloke, A. Weisheimer, F. Pappenberger, and T.N. Palmer
A perturbed land surface parameter experiment with the ECMWF seasonal forecasting system
- 13:45–14:00 EGU2012-5016
Y. ORSOLINI, R. SENAN, A. CARRASCO, G. BALSAMO, P. DOBLAS-REYES, F. VITART, A. WEISHEIMER, and R. BENESTAD
Impact of snow initialization on sub-seasonal forecasts

- 14:00–14:15 EGU2012-6007
S C Chapman, **D A Stainforth**, and N W Watkins
Evaluating the sensitivity of local temperature distributions to global climate change
- 14:15–14:30 EGU2012-8445
T. D. Hewson
The new Met Office strategy for seasonal forecasts
- 14:30–14:45 EGU2012-8742
J. Baehr, M. Botzet, K. Froehlich, L. Kornblueh, S. Tietsche, and W. Mueller
Towards a Seasonal Prediction System using MPI-ESM
- 14:45–15:00 EGU2012-10098
C. Buontempo and C. Hewitt
Seasonal and decadal predictions toward climate services.
Chairperson: Andreas Fischer
- 15:30–15:45 EGU2012-9729
E B Suckling and L A Smith
Do quantitative decadal forecasts from GCMs provide decision relevant skill?
- 15:45–16:00 EGU2012-11176
J.-F. Guérémy and N. Laanaia
Decadal forecasts with CNRM-CM5. Sensitivity to the inclusion of the stratosphere
- 16:00–16:15 EGU2012-8473
M. Dubrovsky and M. Trnka
Probabilistic climate and agroclimatic scenarios for Europe (PRASCE project results)
- 16:15–16:30 EGU2012-1873
C. Kerkhoff, H. R. Künsch, and C. Schär
Relations between RCMs and GCMs in the ENSEMBLES simulations
- 16:30–16:45 EGU2012-6073
P.A.G. Watson, D.J. Karoly, M.R. Allen, N. Faull, and D.S. Lee
Quantifying uncertainty in the dynamical response to ozone recovery
- 16:45–17:00 EGU2012-3264
A. Sokolov, J. Scott, E. Monier, C.A. Schlosser, D. Kicklighter, and S. Dutkiewicz
Examination of Climate Response to Historical and Projected Forcings Over Years 850-4000 with the MIT IGSM.

CL3.3/NP5.4 – Centennial, decadal, seasonal and monthly climate predictions (co-organized) – Posters

Convener: M. A. Liniger | Co-Conveners: G. J. van Oldenborgh, S. Vannitsem, F. J. Doblas-Reyes, R. Knutti, J. D. Annan, K. Frieler

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- Z74 EGU2012-2969
A. Maidens, A. Arribas, A. Scaife, C. MacLachlan, K.A. Peterson, and J. Knight
What explains the successful Met Office seasonal forecast of winter 10/11
- Z75 EGU2012-2596
K. Fan
A prediction model for the Atlantic Basin tropical storm frequency using a year-to-year increment approach
- Z76 EGU2012-3128
J. Bustamante, S. C. Chou, and G. Sueiro
10- Year Eta Model Seasonal Forecast Climatology over South America
- Z77 EGU2012-1265
C. Jiang, G. Lagerloef, and S. Springer
Relationship between PDO and basin-scale ocean circulation variations
- Z78 EGU2012-10302
J.M. Eden, M. Widmann, **S. Wild**, G.R. Evans, and J.G. Hughes
Pacific SST influence on spring precipitation in Addis Ababa, Ethiopia
- Z79 EGU2012-78
Y. Kuleshov, D. Jones, H. Hendon, A. Charles, A. Cottrill, E-P. Lim, S. Langford, R. de Wit, and K. Shelton
Enhancing seasonal climate prediction capacity for the Pacific countries
- Z80 EGU2012-2990
A. Maidens, A. Arribas, K.A. Peterson, C. MacLachlan, M. Vellinga, M. Gordon, A. Williams, and D. Fereday
Upgrade to GloSea4, the Met Office seasonal forecasting system: Improved resolution and assimilated sea-ice.

- Z81 EGU2012-2892
M. Hirschi, M. Dubrovsky, C. Spirig, J. Samietz, P. Calanca, A. P. Weigel, A. M. Fischer, and M. W. Rotach
Monthly forecasting of agricultural pests in Switzerland
- Z82 EGU2012-10664
L A Smith and D A Stainforth
Putting Weather back into the Definition of Climate
- Z83 EGU2012-11444
H. Du, F. Niehorster, and L.A. Smith
Insightful Measures of Predictive Skill in Seasonal Forecasts
- Z84 EGU2012-10983
T. Maynard, **E B Suckling**, and L A Smith
Skill Scores for Probabilistic Climate and Weather Prediction
- Z85 EGU2012-7718
R. Gangsto, A. P. Weigel, C. Appenzeller, **A. Fischer**, and M. A. Liniger
Evaluating decadal predictions - some considerations on bias correction and cross-validation
- Z86 EGU2012-8991
S. M.W. Higgins, **H.L. Du**, and L.A. Smith
Constraints on Rational Model Weighting, Blending and Selecting when Constructing Probability Forecasts given Multiple Models
- Z87 EGU2012-3089
W. Mueller, D. Matei, J. Jungclaus, H. Haak, H. Pohlmann, D. Notz, J. Kröger, J.-S. von Storch, J. Baehr, and J. Marotzke
The MPI-M CMIP5 Decadal Prediction Experiments
- Z88 EGU2012-7664
T. Spangehl, M. Schröder, A. Hense, F. Kaspar, R. Hollmann, R. Glowienka-Hense, and S. Stolzenberger
The VeCAP project: Verification, Calibration and Assessment of Predictability of medium-range climate predictions using satellite data
- Z89 EGU2012-9615
J. Servonnat, J. Mignot, E. Guilyardi, D. Swingedouw, and S. Labetoule
Testing surface initialisation strategies for decadal projections in a perfect model framework
- Z90 EGU2012-1097
B Wouters, W Hazeleger, GJ van Oldenborgh, and S Drijfhout
Multimodel Decadal Predictability of the Subpolar Gyre
- Z91 EGU2012-2611
V. Zunz, **H. Goosse**, J. Jungclaus, and S. Dubinkina
Evaluating the Decadal Prediction Skill of the Sea Ice Concentration in the Southern Ocean
- Z92 EGU2012-11958
L.-P. Caron, C.G. Jones, F.J. Doblas-Reyes, and M. Caian
Multi-year forecast of Atlantic tropical cyclone activity using EC-Earth
- Z93 EGU2012-107
G. Wang
A novel approach in predicting non-stationary time series by combining external forces
- Z95 EGU2012-8525
T. Toniazzo and S.J. Woolnough
CMIP-5 model errors in the tropical Atlantic
- Z96 EGU2012-9497
A Lopez, E Suckling, and L.A. Smith
Pattern scaled climate change scenarios: are these useful for adaptation?
- Z97 EGU2012-7797
A. Fischer, A. P. Weigel, C. Buser, R. Knutti, C. Schär, H. R. Künsch, M. A. Liniger, and C. Appenzeller
Climate Change Projections for Switzerland based on a Bayesian Multi-Model Approach
- Z98 EGU2012-7130
J. D. Annan, J. C. Hargreaves, and K. Tachiiri
A common fallacy in climate model evaluation
- Z99 EGU2012-11000
C. J. Rye, M. R. Allen, R. G. Jones, N. Massey, F. Otto, S. Rosier, and The climateprediction.net team
Assessment and Selection of GCM Perturbed Physics Ensemble Members Using Observed Top-of-Atmosphere Fluxes
- Z100 EGU2012-6865
K. Tachiiri, J.C. Hargreaves, J.D. Annan, C. Huntingford, and M. Kawamiya
Allowable carbon emissions for a medium mitigation scenario
- Z101 EGU2012-4193
T. Simon, Ch. Ohlwein, A. Hense, and C. Simmer
Probabilistic Quantification of Heavy Future Rainfall Events via Statistical Downscaling for the Poyang Catchment in China

- Z102 EGU2012-1496
H. Reddad, M. Bakhat, and B. Damnati
Climate change and precipitation evolution in Ifran region (Middle Atlas of Morocco).
- Z103 EGU2012-7362
E. Bergin, W. Buytaert, C. Onof, and H. Wheeler
Downscaling of rainfall in Peru using Generalised Linear Models
- Z104 EGU2012-12832
A.J. Anson, **R.W. Arritt** and the The MRED Team
Precipitation intensity in an ensemble of downscaled seasonal forecasts
- Z105 EGU2012-4780
J. Hnilica
Statistical correction of daily precipitation data from the climate models

CL4.3 – Mediterranean Climate: from past to future – Orals

Convener: P. Lionello | Co-Conveners: C.M. Goodess, F. Abrantes, M. Tsimplis

Room: 16

Chairperson: C. Goodess

- 08:30–08:45 EGU2012-6637
P. Lionello, M. Gacic, G. Gomis, R. Garcia-Herrera, F. Giorgi, S. Planton, R. Trigo, A. Theocharis, M.N. Tsimplis, U. Ulbrich, and E. Xoplaki
The MedCLIVAR program and the climate of the Mediterranean region
- 08:45–09:00 **Young scientist poster presentations**
- 09:00–09:15 EGU2012-9847
M Rogerson, EJ Rohling, GR Bigg, and J Ramirez
Why does the Mediterranean Outflow vary through time?
- 09:15–09:30 EGU2012-8770
S. Alessio, C. Taricco, G. Vivaldo, and M. Ghil
Modern decrease of $\delta^{18}O$ in Mediterranean sediments over the last 150 y: anthropogenic forcing and natural variability
- 09:30–09:45 EGU2012-13625
J.-P. Savy, K.M. Yao, F. Touratier, and C Goyet
Temporal evolution of the anthropogenic CO₂ and acidification of the northwestern Mediterranean Sea, from the mid-1990s to the mid-2000s
- 09:45–10:00 EGU2012-2657
J. Llasses, G. Jordà, and D. Gomis
Optimal spatio-temporal design of an hydrographic sampling aimed to monitor climate change in the Mediterranean Sea

COFFEE BREAK

Chairperson: I. Bladé

- 10:30–10:45 EGU2012-1673
J. Romanski, A. Romanou, M. Bauer, and G. Tselioudis
Atmospheric Forcing of the Eastern Mediterranean Transient by Midlatitude Cyclones
- 10:45–11:00 EGU2012-10946
M. Gaetani and **M. Pasqui**
A synoptic characterization of the Saharan dust transport in the Mediterranean basin
- 11:00–11:15 EGU2012-4573
K. Schepanski and P. Knippertz
Soudano-Saharan Depressions and their Importance for Precipitation and Dust - a new Perspective on a classical synoptic Concept
- 11:15–11:30 EGU2012-3956
P. Nabat, F. Solmon, S. Somot, and M. Mallet
Implementation of a new emitted dust size distribution in a RCM over the Mediterranean region: application to the impact of aerosols on the Mediterranean climate
- 11:30–11:45 EGU2012-8974
A. Polonsky and M. Bardin
Variability of Mediterranean cyclonic activity associated with the NAO and AMO

- 11:45–12:00 EGU2012-5932
S. Josey
 To What Extent Do Atmospheric Modes Of Variability Determine Mediterranean Sea Surface Heat Exchange?

LUNCH BREAK

Chairperson: P.Lionello

- 13:30–13:45 EGU2012-11846
I. Bladé, B. Liebmann, D. Fortuny, and G.-J. van Oldenborgh
 The summer North Atlantic Oscillation (SNAO) in CMIP3 models and related uncertainties in precipitation projections in the Euro-Mediterranean region
- 13:45–14:00 EGU2012-4034
E. Hertig, J. Jacobeit, A. Paxian, G. Vogt, S. Seubert, and H. Paeth
 Statistical assessments of extreme precipitation and dry periods in the Mediterranean area until the end of the 21st century
- 14:00–14:15 EGU2012-13623
J. A. Añel and the The Weatherathome.net Team
 Weatherathome.net: useful simulations for the Mediterranean region
- 14:15–14:30 EGU2012-194
A.-L. Lereboullet, G. Beltrando, and D.K. Bardsley
 Climate change and viticulture in Mediterranean climates: the complex response of socio-ecosystems. A comparative case study from France and Australia (1955-2040)
- 14:30–14:45 EGU2012-1836
 A.G. Koutroulis, **I.K. Tsanis**, and D. Jacob
 Projections of water resources availability in Crete for the 21st century under the global change perspective
- 14:45–15:00 EGU2012-10819
S. Somot, F. Sevault, M. Déqué, M. Herrmann, C. Dubois, R. Aznar, E. Padorno, E. Alvarez-Fanjul, G. Jorda, M. Marcos, and D. Gomis
 Regional ocean climate change scenarios for the Mediterranean Sea: assessing the uncertainties along the 21st century.
- 15:00–15:15 EGU2012-12375
C. Dubois, S. Somot, S. Calmanti, A. Carillo, M. Déqué, A. Dell'Aquila, A. Elizalde, S. Gualdi, D. Jacob, B. L'Hévéder, L. Li, P. Oddo, G. Sannino, E. Scoccimarro, and F. Sevault
 Future projections of the surface heat and water budgets of the Mediterranean Sea in an ensemble of coupled atmosphere-ocean regional climate models.

CL4.3 – Mediterranean Climate: from past to future – Posters

Convener: P. Lionello | Co-Conveners: C.M. Goodess, F. Abrantes, M. Tsimplis

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: P.Lionello

- Z106 EGU2012-9097
B. Wilhelm, F. Arnaud, P. Sabatier, C. Crouzet, E. Brisset, F. Guiter, J.L. Reyss, E. Chaumillon, K. Tachikawa, E. Bard, and J.J. Delannoy
 1.4 kyrs of flash flood events in the Southern European Alps: implications for extreme precipitation patterns and forcing over the north-western Mediterranean area
- Z107 EGU2012-13012
L. Vidal, A. Pothin, M. Revel, K. Tachikawa, M. Garcia, C. Sonzogni, and E. Bard
 Climate Variability in the Levant basin during the last deglaciation
- Z108 EGU2012-12500
R. Zech, M. Zech, S. Markovic, and Y. Huang
 Humid glaciials, arid interglaciials? Results from a multiproxy study of the loess-paleosol sequence Crvenka, Serbia
- Z109 EGU2012-234
B. Soumaya, K. Nejib, B. Franck, L. Laurent, D. Jean-Claude, C. Nicolas, and R. Hélène
 Constraints on Mg/Ca-paleothermometry in the western Mediterranean Sea
- Z110 EGU2012-4161
A. Stadnitskaia, V. Liebetrau, A. Eisenhauer, and J.S. Sinninghe Damsté
 Past methane seepage and linked deep-water anoxia are logged in methane-derived carbonates

- Z111 EGU2012-7377
O. Peyron, M. Magny, N. Combourieu-nebout, S. Goring, S. Joannin, J.-L. de Beaulieu, E. Brugapaglia, I. Dormoy, R. Drescher-schneider, D. Galop, E. Ortu, and L. Sadori
 Pollen-inferred quantitative reconstruction of the Holocene climate in the central Mediterranean area (Italy)
- Z112 EGU2012-3717
G. Jordà, J. Llasses, and D. Gomis
 Can we trust Mediterranean hydrographic data products (MEDAR, EN3, Ishii) for climate studies?
- Z113 EGU2012-751
M. Gómez, L. Gimeno, R. Nieto, A. Drumond, and L. Prieto
 Variability of the moisture sources around the Mediterranean Basin during 1980-2000
- Z114 EGU2012-1121
C.M. Goodess, M.D. Agnew, D. Hemming, C. Giannakopoulos and the CIRCE RL11 Team
 Integrated assessment in the Mediterranean: the CIRCE case studies
- Z115 EGU2012-1557
JD Ruiz Sinoga, JF Martinez Murillo, MA Gabarron Galeote, and JM Senciales Gonzalez
 Analysis of dry periods using the DDSLR index in the Mediterranean southern Spain
- Z116 EGU2012-3720
G. Jordà, M. Marcos, M. Gómez, and D. Gomis
 Wind wave climate in the Western Mediterranean under climate change scenarios
- Z117 EGU2012-2465
A. Martínez-Asensio, M. Marcos, G. Jordà, D. Gomis, and M. Gómez
 Calibration of a wind wave hindcast (1958-2008) in the Western Mediterranean using buoy data.
- Z118 EGU2012-2712
M. Tanarhte, P. Hadjinicolaou, and J. Lelieveld
 Intercomparison of temperature and precipitation datasets based on observations in the Mediterranean and the Middle-East
- Z119 EGU2012-6008
M. Stéfanon
 Dynamical effects of vegetation on the 2003 summer heat waves
- Z120 EGU2012-6166
 M. Revel, **N. Combourieu Nebout**, E. Ducassou, S. Migeon, M. Ismail, S. Bernasconi, and O. Peyron
 Temporal evolution of the Ethiopian monsoon intensity since the last 25,000 years from the Nile suspended discharges record.
- Z121 EGU2012-9538
E. Romano, E. Volpi, and F. Stefanucci
 Analysis of temperature trends, heat and cold waves in Central Italy (1952-2008)
- Z122 EGU2012-6263
P. Pereira, A. Sanchez-Lorenzo, J.-A. Lopez-Bustins, and C.-J. Lolis
 Trends in summer tropical nights on the Iberian Peninsula and their connection with large-scale atmospheric circulation patterns
- Z123 EGU2012-8804
C. Pizzigalli, P. Lionello, Ahmed Hassan Fahmi, Ghada Al-Naber, Muhammad Shatanawi, Khaldoun Shatanawi, Zohra Lili Chabaane, Mohamed Wael Hamed Al Askhar, Mohamed Magdy Abdel Wahab, and Haifa Goma Ben Mailod
 Precipitation climatology for the North African and Middle East areas of the Mediterranean Region using a collection of in situ observation
- Z124 EGU2012-6605
P. Lionello
 The climate of the Venetian and North Adriatic region: variability, trends and future change
- Z125 EGU2012-6582
 M. Reale and **P. Lionello**
 Climate change over Venetia (north-east Italy)
- Z126 EGU2012-7085
 K.M. Nissen, **U. Ulbrich**, G.C. Leckebusch, and J.G. Pinto
 Mediterranean cyclones and wind storms in a changing climate
- Z127 EGU2012-6361
 A. Bleta, **P.T. Nastos**, and A. Matzarakis
 Assessment of bioclimatic conditions in Crete Island, Greece
- Z128 EGU2012-8188
R. Marcos, M. Turco, M.C. Llasat, and P. Quintana-Seguí
 Application of a statistical downscaling method to detect inhomogeneities in a temperature time series
- Z129 EGU2012-2599
J. Kysely, L. Gaal, S. Begueria, R. Beranova, and J. I. Lopez-Moreno
 Uncertainties of climate change scenarios of precipitation extremes in the Mediterranean based on ENSEMBLES RCMs

- Z130 EGU2012-9351
M. Dubrovsky, P. Duce, B. Arca, and G. Pellizzaro
 Multi-GCM Climate Projection for the Mediterranean and Related Impact on the Forest Fire Risk (with a stress on Sardinia)
- Z131 EGU2012-11833
C.M Gouveia, R.M. Trigo, S.M. Begueria, and S Vicente-Serrano
 Drought influence on vegetation behavior in Mediterranean basin
- Z132 EGU2012-12272
C. Oikonomou, M. El-Maayar, and M.A. Lange
 Investigating wheat yield response to climatic extremes in the Mediterranean region under current and projected future climatic conditions
- Z133 EGU2012-4442
 H. Feidas, **P. Zanis**, D. Melas, M. Vaitis, E. Anadranistakis, P. Symeonidis, and S. Pantelopoulos
 The Geographic Climate Information System Project (GEOCLIMA): Overview and preliminary results
- Z134 EGU2012-12999
 F. Appiotti, **M. Krzelj**, F. Marincioni, and A. Russo
 Climate change effects on environment (marine, atmospheric and terrestrial) and human perception in an Italian Region (Marche) and the nearby northern Adriatic Sea.
- Z135 EGU2012-13844
 Z. Bargaoui, **Y. Trambly**, E. Lawin, and E. Servat
 Precipitation variability and future projections for water resources management in Tunisia Northern Coastal basins

CL4.10 – Ice core science and paleo-climate – important for both the past and the future – Orals

Convener: D. Dahl-Jensen | Co-Conveners: S. Johnsen, J. White

Room: 15

Chairperson: Dorthe Dahl-Jensen and Jim White

- 08:30–08:45 EGU2012-3113
J. Jouzel
 Modeling of water isotopes in polar regions and application to ice core studies
- 08:45–09:00 EGU2012-919
S.A. Marcott, E.J. Brook, T. Sowers, and M.K. Kalk
 A Deglacial Record of Carbon Dioxide from the WAIS Divide Ice Core, Antarctica
- 09:00–09:15 EGU2012-4769
M. Guillevic, L. Bazin, C. Stowasser, A. Landais, V. Masson-Delmotte, B. Minster, F. Prié, T. Blunier, S.L. Buchardt, B.M. Vinther, and M. Leuenberger
 Combining water and gas isotopes measurements from the NEEM ice core to reconstruct abrupt temperature changes and reorganization of the hydrological cycle over a series of Dansgaard-Oeschger events
- 09:15–09:30 EGU2012-10419
E.J. Steig, J.W.C. White, B. Vaughn, P. Neff, S. Schoenemann, B. Markle, Q. Ding, T.J. Fudge, and K. Taylor
 A high resolution stable isotope record from central West Antarctica covering the last 62,000 years
- 09:30–09:45 EGU2012-8539
 T.J. Popp, J.W.C. White, **V. Gkinis**, B.M. Vinther, and S.J. Johnsen
 High resolution water stable isotope profiles of abrupt climate transitions in Greenland ice with new observations from NEEM
- 09:45–10:00 EGU2012-12404
J. P. Steffensen and J-R Petit
 Dust and chemical impurities in polar ice cores: Have we solved the riddle of their tight correlation to the stable isotopes?

CL4.10 – Ice core science and paleo-climate – important for both the past and the future – Posters

Convener: D. Dahl-Jensen | Co-Conveners: S. Johnsen, J. White

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- Z136 EGU2012-3363
 M.D. Ellehoj, S.J. Johnsen, **H.C. Steen-Larsen**, J. Sjolte, and M. Werner
 Ice-vapor equilibrium fractionation factor of hydrogen and oxygen isotopes: Experimental investigations and implications for stable water isotope studies

- Z137 EGU2012-6523
G. van der Wel, H. Oerter, H. Meyer, and H. Fischer
Past local temperatures obtained from the EDML ice core using differential diffusion
- Z138 EGU2012-9190
M. Werner, S. Dietrich, and G. Lohmann
Glacial-interglacial changes in Antarctica: High-resolution modelling of water isotopes and temperature-isotope relations
- Z139 EGU2012-12817
B.M. Vinther
Greenland ice core $\delta^{18}O$ records - from Camp Century to NEEM
- Z140 EGU2012-1235
E. Schlosser, H. Oerter, E. Isaksson, H. Anschütz, and T. Martma
The relationship between air temperature and accumulation in Antarctica - more than Clausius-Clapeyron
- Z141 EGU2012-12705
H. C. Steen-Larsen, D. Noone, M. Berkelhammer, D. Schneider, J. White, and K. Steffen
Observing and documenting the snow surface processes creating the isotopic signal in the snow at Summit, Greenland
- Z142 EGU2012-2512
D. Dahl-Jensen and the NEEM Community Members Team
The NEEM climate record
- Z143 EGU2012-599
T.K. Bauska, E.J. Brook, A.C. Mix, and J. Ahn
A new high-precision record of $\delta^{13}C$ of CO_2 during the last millennium from the WAIS Divide Ice Core
- Z144 EGU2012-7177
J. Schmitt, B. Seth, P. Köhler, J. K. Willenbring, and H. Fischer
A new ice core proxy of continental weathering and its feedback with atmospheric CO_2
- Z145 EGU2012-12883
A. Orsi and J. Severinghaus
Paleo-temperature from Ice Cores: a new method based on noble gas isotopes and borehole temperature.
- Z146 EGU2012-5780
M. Bigler and the NEEM Aerosol Consortium Team
New aerosol measurements from the Greenland NEEM ice core
- Z147 EGU2012-6668
K. Goto-Azuma, A. Wegner, M. Hansson, M. Hirabayashi, T. Kuramoto, T. Miyake, H. Motoyama, and NEEM Aerosol Consortium members
Variations of ion concentrations in the deep ice core and surface snow at NEEM, Greenland
- Z148 EGU2012-1895
P. Vallelonga, C. Barbante, G. Cozzi, J. Gabrieli, V. Gaspari, A. Spolaor, and C. Turetta
Variations in Iron Fluxes across Antarctica: a new record from Talos Dome in Victoria Land, Antarctica.
- Z149 EGU2012-4040
H. Motoyama and Dome Fuji Ice Core Project members
Characteristics of correlation between climate and environmental elements from past 700,000 years in Dome Fuji ice core, Antarctica

NP2.4/CL5.5 – Climate Sensitivity (co-organized) – Orals

Convener: M. Crucifix | Co-Conveners: H. A. Dijkstra, A. S. von der Heydt, P. Langen

Room: 17

Chairperson: Michel Crucifix

- 15:30–16:00 EGU2012-11899
J. Hansen and M. Sato
Paleoclimate Implications for Climate Sensitivity and Human-Made Climate Change
- 16:00–16:15 EGU2012-7796
D A Stainforth and L A Smith
Linearity, climate sensitivity and climate changes in the surface temperature field
- 16:15–16:30 EGU2012-13295
T.L. Edwards, J.C. Rougier, and M. Collins
Joint constraints on climate sensitivity in a coupled GCM using palaeoclimate reconstructions of the Mid-Holocene and Last Glacial Maximum
- 16:30–16:45 EGU2012-4800
R. Caballero and M. Huber
Climate transitions and state-dependent climate sensitivity in NCAR CAM3 simulations over a broad range of radiative forcing

- 16:45–17:00 EGU2012-13069
C. Proistosescu and P. Huybers
 A stochastic model for temperature variability and climate sensitivity ranging from months to tens-of-thousands of years

CL5.7/AS4.22/BG6.4/GM2.6 – Instrumental monitoring of caves: the key to understanding anthropogenic impacts and climate-proxy relationships in speleothems (co-organized) – Orals

Convener: D. Matthey | Co-Conveners: C. Spötl, J. Baldini

Room: 16

Chairperson: James Baldini

- 15:30–15:45 EGU2012-5830
F. Bourges, D. Genty, P. Genthon, A. Mangin, and D. D'Hulst
 South-France caves monitoring : present day cave air dynamics characterization, paleoclimatic and archaeological interests
- 15:45–16:00 EGU2012-13481
 J.L. Banner, **E.W. James**, D. Breecker, R. Casteel, C. Wong, K. Meyer, W. Feng, and B. Cowan
 Long-term cave monitoring on the Edwards Plateau of Texas (USA) to advance speleothem paleoclimate proxies
- 16:00–16:15 EGU2012-12117
P. Aliaga and J.P. Bernal
 In-situ REE calibration as palaeohydrogeological proxies in stalagmites
- 16:15–16:30 EGU2012-6704
D.M. Tremaine, B.P. Kilgore, and P.N. Froelich
 Calcite Farming at Hollow Ridge Cave: Calibrating Net Rainfall and Cave Microclimate to Dripwater and Calcite Chemical Variability
- 16:30–16:45 EGU2012-11697
T. Atkinson, D. Matthey, J-P. Latin, M. Ainsworth, and R. Durell
 Generation and dispersal of carbon dioxide in the caves and karst of Gibraltar
- 16:45–17:00 EGU2012-10502
M. Luetscher and P.-Y. Jeannin
 Monitoring cave drips in a (partly) controlled hydrological system, Milandre cave, Switzerland

CL5.7/AS4.22/BG6.4/GM2.6 – Instrumental monitoring of caves: the key to understanding anthropogenic impacts and climate-proxy relationships in speleothems (co-organized) – Posters

Convener: D. Matthey | Co-Conveners: C. Spötl, J. Baldini

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Christoph Spötl

- Z150 EGU2012-831
E. Garcia-Anton, S. Cuezva, A. Fernandez-Cortes, S. Sanchez-Moral, and J.C. Canaveras
 Multiparametric surveillance of conservation measures at subterranean rock-art sites: case of Altamira cave
- Z151 EGU2012-874
S Sanchez-Moral, A Fernandez-Cortes, S Cuezva, E Garcia-Anton, and D Benavente
 Balance of pCO₂ in the carbonate-bearing unsaturated zone controlling mineral precipitation: Implications for geo-environmental analyses in caves
- Z152 EGU2012-4775
S. Riechelmann, A. Schröder-Ritzrau, C. Spötl, D.F.C. Riechelmann, D.K. Richter, and A. Immenhauser
 Water chemistry and isotope data from a five year monitoring programme of Bunker Cave, NW Germany
- Z153 EGU2012-13546
D. Matthey
 Continuous multichannel monitoring of cave air carbon dioxide using a pumped non-dispersive infrared analyser
- Z154 EGU2012-861
A. Fernandez-Cortes, S Cuezva, M Garcia-Anton, M Alvarez-Gallego, JC Canaveras, E Porca, V Jurado, C Saiz-Jimenez, and S Sanchez-Moral
 Assessment of aerodynamic processes on subsurface in karst terrains by rapid multi-parametric surveys (case of Castanar Cave, Spain)
- Z155 EGU2012-4209
S.F.M. Breitenbach, M.-J. Gilbert, O. Kwiecien, R. Seifert, and D. Fleitmann
 Monitoring drip water isotope and element variability: A new device for automatic drip water collection

- Z156 EGU2012-4859
E. Garcia-Anton, S. Cuezva, A. Fernandez-Cortes, S. Sanchez-Moral, and D. Benavente
 Daily variations of CO₂, δ¹³CO₂ and CH₄ of cave air controlled by external weather conditions: example of rapid survey in Altamira cave (north of Spain)
- Z157 EGU2012-6118
D. Tapete, F. Fratini, B. Mazzei, M. Camaiti, E. Cantisani, C. Riminesi, R. Manganelli Del Fà, O. Cuzman, and P. Tiano
 Calcium carbonate crystallizations on hypogean mural paintings: a pilot study of monitoring and diagnostics in Roman catacombs
- Z158 EGU2012-7910
M. Gasiowski and H. Hercman
 Monitoring of cave air temperature and humidity in the Niedzwiedzia Cave system (Sudetes, Poland) - a key to understanding tourists activity impact to cave environment
- Z159 EGU2012-9604
J.U.L. Baldini and C.M. Sherwin
 Using high-resolution monitoring data to identify the effects of cave and surface conditions on cave drip water hydrochemistry
- Z160 EGU2012-10646
H. Ridley, J.U.L. Baldini, and K.M. Pruger
 Monitoring tropical cave environmental parameters: Implications for palaeoclimate reconstruction
- Z161 EGU2012-10680
D. Ballesteros, M. Jiménez-Sánchez, J. García-Sansegundo, M. Borreguero, and G. Sendra
 Quantitatively structural control of the karst based on speleological cave survey data: Cabeza Llerosos massif (Picos de Europa, Spain)
- Z162 EGU2012-11195
R. Kirk, D. Matthey, and C. Collister
 Characteristics of annual laminae in speleothem from Grotte de Rolande, SW France and relationships to seasonal changes in the cave and surface environment.
- Z163 EGU2012-11463
C. Thrush, D. Matthey, D. Lowry, D. Hoffmann, and E. Anton-Garcia
 Deciphering ENSO periodicity in an annually resolved speleothem from Fiji
- Z164 EGU2012-11604
D. Scholz, M. Hansen, and W. Dreybrodt
 Stable carbon and oxygen isotope fractionation processes during speleothem growth: systematic investigation in novel laboratory experiments

IG5/CL5.8/SSP5.3 – Stable isotopes as a tool in (paleo-)climate studies in different environments and by multi-proxi approaches (co-organized) – Orals

Convener: Dr. Bojar | Co-Conveners: M Werner, RTW Siegwolf, L. Dallai, A. Demény, D. R. Gröcke, S. H. Halas, Dr. Melinte-Dobrinescu, A. Perşoiu, M. Savard

Room: 39

Chairperson: Rolf Siegwolf, Mihaela Melinte-Dobrinescu

- 13:30–13:45 EGU2012-10432
D. Sarris, R. Siegwolf, and Ch. Körner
 Stable C and O isotope signals of drought in Mediterranean pines on inter- and intra-annual scales
- 13:45–14:00 EGU2012-6472
M. M. Savard, C. Bégin, J. Marion, and A. Smirnoff
 Natural and Anthropogenic C and N isotopic Trends in Trees growing near oil-sands developments
- 14:00–14:15 EGU2012-6257
A. McAnena, J.O. Herrle, A. Griesand, T. Wagner, H.M. Talbot, J. Rethemeyer, and P. Hofmann
 Evidence for long term cooling and short punctuated climate events at the Aptian-Albian boundary in the sub-tropical Atlantic (Mazagan Plateau, DSDP Dite 545)
- 14:15–14:30 EGU2012-11602
M.C. Melinte-Dobrinescu and A.-V. Bojar
 Cretaceous biotic changes and isotope events in the Southern and Eastern Carpathians (Romania)
- 14:30–14:45 EGU2012-8668
A. Demény, Gy. Czuppon, Z. Siklósy, G. Schöll-Barna, P. Sümegei, Sz. Leél-össy, K. Lin, C.-C. Shen, and B. Bajnóczy
 Temperature and precipitation variations in the mid-Holocene based on combined evaluation of stable isotope compositions of speleothems and freshwater bivalve shells in Hungary
- 14:45–15:00 EGU2012-8210
J. L. Toney, J. A. Bendle, O. Seki, S. Krishnan, M. Pagani, G. Inglis, R. Pancost, P. K. Bijl, S. Bohaty, S. Schouten, J. Pross, H. Brinkhuis, U. Roehl, S. Jamieson and the IODP Expedition 318 Team
 Insights into peatland expansion and methane cycling on the East Antarctic continent in the early Eocene

IG5/CL5.8/SSP5.3 – Stable isotopes as a tool in (paleo-)climate studies in different environments and by multi-proxi approaches (co-organized) – Posters

Convener: Dr. Bojar | Co-Conveners: M Werner, RTW Siegwolf, L. Dallai, A. Demény, D. R. Gröcke, S. H. Halas, Dr. Melinte-Dobrinescu, A. Perşoiu, M. Savard

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Martin Werner, Darren Grocke, Ana-Voica Bojar

- A388 EGU2012-8908
L. Kocsis, E. Gheerbrant, M. Mouflih, H. Cappetta, J. Yans, A. Ulianov, and M. Amaghzaz
Tracing climatic conditions during the deposition of late Cretaceous-early Eocene phosphate beds in Morocco by geochemical compositions of biogenic apatite fossils
- A389 EGU2012-7057
P. Hofmann, R. Wiegand, L. Handley, T. Wagner, H. M. Talbot, and **A. Mcanena**
Fluctuating sea surface temperatures in the subtropical North Atlantic during Oceanic Anoxic Event 1a at DSDP Site 398 and ODP Site 641
- A390 EGU2012-4913
P.J.N. Weber*, C. Baumgartner-Mora*, and P.O. Baumgartner*
87Sr/86Sr-ratios, foraminiferal data and sedimentology of the Latest Miocene - Pliocene cyclic carbonates of La Désirade (Guadeloupe, France)
- A391 EGU2012-10889
C. Beltran, J. Backman, and M.A. Sicre
Late Miocene nannofossil response to global climate change: A new record from the Eastern Equatorial Pacific (IODP Site 1338).
- A392 EGU2012-8008
M. Koch*, O. Friedrich, and P.A. Wilson
Late Pliocene to early Pleistocene millennial-scale fluctuations in SST and stratification within the North Atlantic
- A393 EGU2012-3467
G.S. Kong, S.P. Kim, and H.S. Choi
High-resolution paleoenvironmental records during the late Quaternary from the marginal seas of East Asia: the intrusion of open-ocean current
- A394 EGU2012-324
O. Rach, A. Brauer, H. Wilkes, and D. Sachse
Atmospheric circulation shifts during the Younger Dryas in Western Europe
- A395 EGU2012-2876
F. Guenther, R. Witt, B. Xu, T. Yao, R. Mäusbacher, and G. Gleixner
Hydrogen isotopes of biomarkers as palaeoclimate proxy of Lake Nam Co, Tibetan Plateau
- A396 EGU2012-9143
S. Gao, C. Voelker, and D. Wolf-Gladrow
Application of a box model to investigate marine ^{30}Si distribution
- A397 EGU2012-10545
J.C.W Whalen, P.A.E. Pogge von Strandmann, and D.N. Schmidt
The Mg isotope composition of foraminifers: a new proxy for palaeoseawater composition
- A398 EGU2012-12862
A.-V. Bojar, H.-P. Bojar, and W. Tufar
Mg/Ca and isotopic high resolution record of deep-sea hydrothermal barnacles
- A399 EGU2012-10810
A. Perşoiu and A.-V. Bojar
Palaeoclimate signal recorded by stable isotopes in cave ice: a modeling approach
- A400 EGU2012-530
H. C. Steen-Larsen, S. J. Johnsen, V. Masson-Delmotte, B. Stenni, C. Risi, and H. Sodemann
Atmospheric water vapor monitoring above the Greenland Ice Sheet
- A401 EGU2012-13727
R.T.W. Siegwolf, D. Sarris, M. Saurer, and O.V. Sidorova
When isotope signals in tree rings contradict our concepts and interpretations
- A402 EGU2012-13742
R.T.W. Siegwolf, N. Buchmann, D. Frank, F. Joos, A. Kahmen, K. Treydte, M. Leuenberger, and M. Saurer
iTREE: Long-term variability of tree growth in a changing environment - identifying physiological mechanisms using stable C and O isotopes in tree rings.
- A403 EGU2012-11019
I. Labuhn, V. Daux, D. Genty, M. Pierre, M. Stievenard, and E. Regnier
Reconstruction of Drought Periods in South-Western France Based on the Isotopic Composition of Tree Rings and Speleothems

- A404 EGU2012-8877
S. Szymczak, M.M. Joachimski, A. Bräuning, T. Hetzer, and J. Kuhlemann
 A 500 year early summer temperature reconstruction for the western Mediterranean basin based on stable carbon isotopes from *Pinus nigra* ssp. *laricio*
- A405 EGU2012-2820
 PM Wynn, NJ Loader, and **IJ Fairchild**
 Interrogating trees as archives of sulphur deposition
- A406 EGU2012-14367
T. Boettger, M. Haupt, and M. Friedrich
 Sensitivity of stable isotope ratios of tree-rings of Silver fir (*Abies alba* Mill.) in Franconia (Central Germany) to climate and environmental changes
- A407 EGU2012-14226
K. Krause, P. Cherubini, H. Bugmann, and P. Schleppei
 Growth enhancement of Norway spruce trees under long-term low-dose N addition is due to morphological rather than to physiological changes
- A408 EGU2012-7071
J. Sohn, M. Kohler, A. Gessler, and J. Bauhus
 Interactions of thinning and stem height on the drought response of radial stem growth and isotopic composition of Norway spruce (*Picea abies*)
- A409 EGU2012-7237
M. Harada, Y. Watanabe, T. Nakatsuka, S. Tazuru, Y. Horikawa, J. Sugiyama, T. Tsuda, and T. Tagami
 Establishment of alpha-cellulose extraction method and its application using tropical tree sungkai (*Peronema canescens* Jack) for reliable paleoclimate reconstruction in tropical areas

GM4.2 – Organic matter export across landscapes: Understanding the rates and controls (co-listed) – Orals

Convener: R. Hilton | Co-Conveners: M. Evans

Room: 21

Chairperson: n.n.

- 08:30–08:45 EGU2012-8834
 O. Beyssac, M. Marocchi, L. Flukiger, V. Galy, F. Herman, S Cox, and **C.C. Chen**
 Tracing fossil particulate organic carbon from bedrocks to river and marine sediments: implications for the geological carbon cycle
- 08:45–09:00 EGU2012-2553
C. Ramos-Scharron and C. Restrepo
 The transfer of modern organic Carbon by landslide activity in tropical montane ecosystems
- 09:00–09:15 EGU2012-9396
 C. Rixen and **O. Korup**
 Soil erosion and organic carbon export by wet snow avalanches
- 09:15–09:30 EGU2012-2458
J.C. Smith, N. Hovius, A. Galy, A. Tye, and J. Turowski
 Particulate organic carbon export from soil and vegetation in temperate mountain regions
- 09:30–09:45 EGU2012-9798
F. Tamoo, F. Meysman, T. R. Marwick, A. V. Borges, R Merckx, J Nyunja, and S Bouillon
 Seasonal dynamics of organic carbon in the Tana River Basin, Kenya
- 09:45–10:00 EGU2012-13331
T. Eglinton, V. Galy, X. Feng, N. Drenzek, A. Dickens, C. Ponton, L. Giosan, E. Schefuss, B. Voss, J. Vonk, O. Gustafsson, D. Montlucon, and Y. Wu
 Climate controls on the residence time of terrestrial biospheric carbon in river basins

GM4.2 – Organic matter export across landscapes: Understanding the rates and controls (co-listed) – Posters

Convener: R. Hilton | Co-Conveners: M. Evans

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XL128 EGU2012-4407
 L. Lombardo, T. Vanwalleghem, and **J.A. Gomez**
 Organic carbon fluxes in stemflow, throughfall and rainfall in an olive orchard
- XL129 EGU2012-4232
J.A. Gomez, M. Burguet, M.E. Taguas, R. Perez, J.L. Ayuso, T. Vanwallgehem, J.V. Giraldez, and K. Vanderlinden
 Distribution of soil organic carbon in two small agricultural Mediterranean catchments.

- XL130 EGU2012-6510
M. Glendell and **R.E. Brazier**
Controls on suspended sediment, particulate and dissolved organic carbon export from two adjacent catchments with contrasting land-uses, Exmoor UK.
- XL131 EGU2012-12415
E. L. Shuttleworth, M. G. Evans, J. J. Rothwell, and S. M. Hutchinson
Impacts of erosion and restoration on POC flux and pollutant mobilisation in the peatlands of the Peak District National Park, UK
- XL132 EGU2012-10760
M. Moreno and M. M Castillo
Storage and transport of particulate organic matter in tropical headwater streams with different catchment land use
- XL133 EGU2012-7232
K. Bunte, **JM Turowski**, N Federspiel, K Swingle, C Rickli, and SR Abt
Coarse particulate organic matter transport and particle-size distribution in two mountain streams
- XL134 EGU2012-8156
J. Bouchez, V. Galy, J. Gaillardet, C. France-Lanord, R.G. Hilton, and L. Maurice
Transport of particulate organic carbon in the Amazon River: insights from river sediment depth-profiles
- XL135 EGU2012-4584
R. G. Hilton, A. Galy, N. Hovius, S. J. Kao, M. J. Horng, and H. Chen
Climatic and geomorphic controls on the erosion of biomass from subtropical mountain forest
- XL136 EGU2012-11086
B. M. Voss, B. Peucker-Ehrenbrink, T. I. Eglinton, and V. Galy
Do different components of terrestrial sources contribute to the riverine suspended load?
- XL137 EGU2012-5474
G. Erkens, M. Van der Meulen, and H. Middelkoop
The storage of carbon in Holocene deposits in the Netherlands
- XL138 EGU2012-10920
C. Goulsbra, M. Evans, and T. Allott
Oxidation rates of overbank POC deposition in an eroding peatland
- XL139 EGU2012-12455
C. Goulsbra, M. Evans, and T. Allott
Inferring rates of in-river POC-DOC transformation using radio carbon dating
- XL140 EGU2012-8380
S. Waldron, S. Drew, D. Gilvear, H. Murray, and K. Heal
Advancing understanding of the fluvial export of organic matter through high-resolution profiling of dissolved organic carbon.
- XL141 EGU2012-2624
D.N. Kothawala, C.A. Stedmon, G.A. Weyhenmeyer, S. Köhler, R.A. Müller, and L.J. Tranvik
Structure of dissolved organic matter across 500 boreal lakes analyzed by fluorescence spectroscopy
- XL142 EGU2012-12546
G. Riise, D. Hongve, S. Haaland, R. Müller, and S. Sobek
Key factors determining DOM and colour in boreal forest lakes

GM4.3 – Sediment and carbon fluxes under human impact and climate changes (co-listed) – Orals

Convener: T. Hoffmann | Co-Conveners: G. Erkens, G. Verstraeten

Room: 21

Chairperson: n.n.

- 10:30–10:45 EGU2012-3047
S. M. Mudd and **K. Yoo**
Influence of erosion rates on particle size and carbon export from upland landscapes
- 10:45–11:00 EGU2012-11695
J. O. Kaplan and T. Vanwalleghem
Anthropogenic soil erosion over the Holocene: Application of a new dynamic soils module for global vegetation models
- 11:00–11:15 EGU2012-13834
K. Van Oost, G. Verstraeten, B. Notebaert, N. Broothaerts, S. Doetterl, and F. Wiaux
Carbon emissions as a result of land use change and accelerated soil erosion: perspectives in time & space.
- 11:15–11:30 EGU2012-12571
R. Aalto and A. Aufdenkampe
Episodic Emplacement of Sediment + Carbon within Large Tropical River Basins

- 11:30–11:45 EGU2012-7709
D. Schillereff, R. Chiverrell, J. Boyle, N. Macdonald, and J. Hooke
 Brotherswater, English Lake District: a record of organic and inorganic sediment flux over the past two millenia
- 11:45–12:00 EGU2012-6827
R. Wasson
 Delays in fluvial systems

HS2.13 – Hydrological change: Regional hydrological behaviour under transient climate and land use conditions (co-listed) – Orals

Convener: S. Hagemann | Co-Conveners: H. Kunstmann, A. Bronstert

Room: 33

Chairperson: n.n.

- 13:30–13:45 EGU2012-10273
F. Ludwig, I. haddeland, H. Biemans, D. Clark, W. Fransen, F. Voss, M. Floerke, J. Heinke, S. Hagemann, N. Hanasakki, D. Gerten, and P. Kabat
 Anthropogenic impacts on the global water cycle - a multi model approach.
- 13:45–14:00 EGU2012-10723
M. Muerth, B. Gauvin St-Denis, S. Ricard, J.A. Velázquez, F.J. Schmid, R. Ludwig, D. Chaumont, and R. Turcotte
 Investigating the impact of correcting regional climate scenarios on the projected changes in river runoff
- 14:00–14:15 EGU2012-8979
T. Bosshard, S. Kotlarski, M. Carambia, K. Görden, P. Krahe, M. Zappa, and C. Schär
 Quantifying uncertainty sources in hydrological climate impact projections
- 14:15–14:30 EGU2012-13098
J. Freer, M.P. Clark, N. Odoni, G. Coxon, H. McMillan, and M. Souvignet
 Understanding the main uncertainties in hydrological ensembles of future climate change predictions
- 14:30–14:45 EGU2012-11238
O. Rössler, B. Diekkrüger, and J. Löffler
 Ensemble simulation and uncertainty estimation - Mountain soil moisture variability under climate change
- 14:45–15:00 EGU2012-5056
B.P. Guillod, E.L. Davin, C. Kündig, G. Smiatek, and S.I. Seneviratne
 Impact of soil properties for European climate simulations

Chairperson: n.n.

- 15:30–15:45 EGU2012-982
M. Renner and C. Bernhofer
 Two simple concepts to assess the role of climate and land-use changes on streamflow
- 15:45–16:00 EGU2012-11704
A. Molina, V. Vanacker, E. Brisson, and V. Balthazar
 Detecting the hydrological impacts of forest cover change in tropical mountain areas: need for detrending time series of rainfall and streamflow data.
- 16:00–16:15 EGU2012-8364
R. P. Silberstein, W. R. Dawes, and C. K. Macfarlane
 Designing forest thinning to compensate stream flow for climate change
- 16:15–16:30 EGU2012-5434
B. Galos, K. Sieck, D. Rechid, A. Haensler, C. Teichmann, G. Kindermann, Cs. Matyas, and D. Jacob
 Biogeophysical effects of afforestation on temperature and precipitation extremes - case studies for Europe
- 16:30–16:45 EGU2012-12166
M. Weiß and B. van den Hurk
 The role of land cover variability on modelled land-atmosphere coupling
- 16:45–17:00 EGU2012-851
G. Garner, D.M. Hannah, J.P. Sadler, and H.G. Orr
 Climatic sensitivity of river temperature regimes within England and Wales

HS2.13 – Hydrological change: Regional hydrological behaviour under transient climate and land use conditions (co-listed) – Posters

Convener: S. Hagemann | Co-Conveners: H. Kunstmann, A. Bronstert

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- A73 EGU2012-770
J. Trümper and J. Schanze
Projection of land-use parameters for modelling hydrological change - concept and testing
- A74 EGU2012-6260
J. Juston
Assessing catchment response to land use change with consideration of discharge uncertainty: case study in west Kenya
- A75 EGU2012-8264
D. A. Rodriguez and J. Tomasella
Simulation of the impacts land use and land cover changes - LUCC on the hydrological response of the Ji-Parana Basin with MGB-INPE model
- A76 EGU2012-8864
Á. Drüsler, P. Vig, and K. Csirmaz
Meteorological Effects of Land Cover Changes in Hungary during the 20th Century
- A77 EGU2012-13670
E.M.C.D. Paiva, C.H. Heatwole, J.B.D. Paiva, and R.C.D. Paiva
Investigating the influence of rice crop irrigation on streamflow in the Ibicui river basin using trend analyses
- A78 EGU2012-9282
K. Fricke and O. Bubenzer
Modelling the effects of climate and land use change on the hydrological system of Urumqi, Northwest China
- A79 EGU2012-9549
B. Guse, D. Sulc, **B. Schmalz**, and N. Fohrer
Combining abiotic and biotic models - Hydraulical modeling to fill the gap between catchment and hydro-dynamic models
- A80 EGU2012-10446
J. Tecklenburg, F.F Hattermann, and S. Liersch
Investigation of Regional Drivers for Discharge Variability in the Blue Nile Basin under Climate Change Conditions
- A81 EGU2012-11189
E. González-Sosa, C Mastachi-Loza, C Medina-frutos, and NM Ramos-Salinas
Modeling of Water balance in semiarid region of Mexico
- A82 EGU2012-899
G. Sapriza, J. Jodar, H.V. Gupta, and J. Carrera
Stochastic simulation of daily rainfall fields conditioned on both regional and local Information
- A83 EGU2012-1222
X.-L. Wang and P.-M. Zhai
Changes in China's Precipitation for Various Categories during 1957-2004
- A84 EGU2012-2371
C. Kormann, T. Francke, G. Bürger, and A. Bronstert
Trend Analyses of Past and Future Precipitation and Runoff in Northern Tyrol, Austria
- A85 EGU2012-5632
A. Kuentz, T. Mathevet, C. Perret, and V. Andréassian
Uncertainty estimation and reconstruction of historical streamflow records
- A86 EGU2012-8626
H.E. Dahlke, S.W. Lyon, J.R. Stedinger, G. Rosqvist, and P. Jansson
Contrasting trends in hydrologic extremes for two sub-arctic catchments in northern Sweden - Does glacier melt matter?
- A87 EGU2012-9914
M. Koprivšek, M. Brilly, A. Vidmar, M. Šraj, and A. Horvat
Analysis of mean annual discharge trends on the Mura River
- A88 EGU2012-12314
E. Ehsanzadeh, H. M. Saley, T.B.M.J. Ouarda, D.H. Burn, A. Pietroniro, O. Seidou, C. Charron, and D. Lee
Nonstationarity in hydro-climatology of Great Lakes
- A89 EGU2012-12531
E. Ehsanzadeh, G. van der Kamp, and C. Spence
On the watershed response to land use/cover change and climate variability in the Prairies
- A90 EGU2012-1825
M.G. Grillakis, A.G. Koutroulis, **I.K. Tsanis**, and U. Ulbrich
Improved bias correction for GCM precipitation data
- A91 EGU2012-4815
S. Hagemann and the WATCH GHM Team
Projected hydrological changes in the 21st century and related uncertainties obtained from a multi-model ensemble
- A92 EGU2012-6210
a. pastor, I. ludwig, h. biemans, e. stehfest, and p. kabat
Where will be allocated the new irrigated lands under global change ?

- A93 EGU2012-863
S. Krakovska, V. Balabukh, L. Palamarchuk, G. Djukel, and **N. Gnatiuk**
Analysis and projections of climate change impacts on flood risks in the Dniester river basin based on the ENSEMBLES RCM data
- A94 EGU2012-1709
T. Y. Gan and E. Kerkhoven
Differences and sensitivities in potential hydrologic impact of climate change to regional-scale Athabasca and Fraser River basins of the leeward and windward sides of the Canadian Rocky Mountains respectively
- A95 EGU2012-1722
Y. Yang
Mechanisms resulting in sharp decrease of runoff in Haihe Catchment of North China
- A96 EGU2012-2292
A. Gaedeke, H. Hölzel, H. Koch, and U. Grünewald
Assessing possibilities of reducing the uncertainty related to climate change impact studies
- A97 EGU2012-2321
H. Hölzel, A. Gädeke, H. Koch, and U. Grünewald
Assessment of climate change impacts on hydrological processes and patterns in the Spree River catchment
- A98 EGU2012-2738
T. Vansteenkiste, N. Van Steenberghe, V. Ntegeka, and P. Willems
Intercomparison of runoff predictions by lumped and distributed models before and after climate change
- A99 EGU2012-3799
E.-S. Im, J.-H. Kwon, B.-J. Lee, S.-R. In, and S.-O. Han
Potential increase of flood hazards in Korea due to global warming from a high-resolution regional climate simulation
- A100 EGU2012-4264
C. Teutschbein and J. Seibert
Validity of Differently Bias-Corrected Regional Climate Model Simulations for Streamflow Simulations under Changing Climate Conditions
- A101 EGU2012-4563
S. Ham and S.-Y. Hong
Effects of freshwater inflow to the ocean on climate simulation using the coupled climate model
- A102 EGU2012-5605
H. Kling, M. Preishuber, and M. Fuchs
Runoff conditions in the Zambezi basin under historic climate and possible future scenarios
- A103 EGU2012-7051
JL Chiang and HC Yang
Climate change impact on river wetted perimeter
- A104 EGU2012-8171
M. Honti, C. Stamm, and P. Reichert
Integrated uncertainty assessment of flow predictions in a Swiss catchment
- A105 EGU2012-8227
J.-F. Exbrayat, E. Timbe, I. Plesca, P. Kraft, D. Windhorst, K. Trachte, W. Buytaert, and L. Breuer
Characterising the hydrological response to climate change of a remote tropical mountainous catchment: a multi-model approach
- A106 EGU2012-8909
M. Meyers, K. Born, and J.G. Pinto
Application of a statistical-dynamical downscaling approach to simulate present and future regional precipitation regimes in Central-Asia
- A107 EGU2012-9325
J.C. Stagl and F. F. Hattermann
Evaluation of Climate Change projections to assess the potential water budget in Central Europe considering climate model uncertainty
- A108 EGU2012-10526
S. Boettcher, R. Dannowski, and C. Merz
Sustainable Water Resources Management of small catchments under climate change: New Approaches at the Fredersdorfer Mühlenfließ, Germany
- A109 EGU2012-11456
G. Kraller, M. Warscher, H. Franz, T. Marke, U. Strasser, and H. Kunstmann
Water balance estimation in high Alpine terrain by combining distributed modeling and a neural network approach (Berchtesgaden Alps, Germany)
- A110 EGU2012-11631
M. Sulis, C. Paniconi, M. Marrocu, D. Huard, and D. Chaumont
Impact of climate change on groundwater/surface water interactions projected by a multimodel ensemble

- A111 EGU2012-13969
X. Beuchat, B. Schaefli, M. Soutter, and A. Mermoud
 A robust framework for probabilistic precipitations downscaling from an ensemble of climate predictions applied to Switzerland

NP2.1 – ENSO: Dynamics, Predictability and Modelling (co-listed) – Orals

Convener: E. Guilyardi | Co-Conveners: M. J. McPhaden, A. Wittenberg, A. Fedorov, P. Braconnot

Room: 17

Chairperson: n.n.

- 08:30–08:45 EGU2012-7022
S.-W. Yeh, B. Dewitte, J.-Y. Yu, S.-I. An, and Y.-K. Lee
 Warming of warm pool sea surface temperature and changes in El Niño activity
- 08:45–09:00 EGU2012-8094
H. Bellenger, E. Guilyardi, M. Collins, S. Ferrett, W. Cai, and A. Wittenberg
 First assessment of ENSO in CMIP5
- 09:00–09:15 EGU2012-5039
M. Watanabe, J.-S. Kug, F.-F. Jin, M. Collins, M. Ohba, and A. Wittenberg
 Attributing varying ENSO amplitudes in climate model ensembles
- 09:15–09:30 EGU2012-3439
M. J. McPhaden
 A 21st Century Shift in the Relationship between ENSO SST Anomalies and Upper Ocean Heat Content
- 09:30–09:45 EGU2012-7414
W.H.G Roberts
 Investigating the different "flavours" of ENSO using the Linearised Ocean Atmosphere Model, LOAM
- 09:45–10:00 EGU2012-1457
D. Dommenges, T. Bayr, and C. Frauen
 Analysis of the Non-linearity in the Pattern and Time Evolution of El Niño Southern Oscillation
- 10:00–10:15 EGU2012-6697
T. Izumo, M. Lengaigne, J. Vialard, J.-J. Luo, T. Yamagata, and G. Madec
 Influence of Indian Ocean Dipole and Pacific recharge on following year's El Niño: interdecadal robustness.

NP2.1 – ENSO: Dynamics, Predictability and Modelling (co-listed) – Posters

Convener: E. Guilyardi | Co-Conveners: M. J. McPhaden, A. Wittenberg, A. Fedorov, P. Braconnot

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY369 EGU2012-12211
S. Thual, B. Dewitte, S.-I. An, S. Illig, and N. Ayoub
 Low frequency modulation of the stability in a conceptual model of the equatorial Pacific: an estimate of the most influential changes in ENSO parameters over the recent decades
- XY370 EGU2012-1201
M. Ohba and M. Watanabe
 Role of the Indo-Pacific Interbasin Coupling in Predicting Asymmetric ENSO Transition and Duration
- XY371 EGU2012-11636
B. Vanni re, E. Guilyardi, T. Toniazzo, and S. Woolnough
 Understanding coupled model errors in the tropical Pacific using hindcasts
- XY372 EGU2012-1718
m. zhao, h. hendon, y.h. yin, and o. Alves
 Impact of Assimilating Salinity on ENSO Variability and Seasonal Forecast Skill in a Coupled Model
- XY373 EGU2012-2586
A. S. von der Heydt and H. A. Dijkstra
 El Ni o dynamics in the warm Pliocene climate
- XY374 EGU2012-2883
J. Stoll, K. Trachte, and J. Bendix
 Analysis of ENSO related multi source SST for the east pacific Ni o 1.2 region
- XY375 EGU2012-3824
D. Chen and T. Lian
 Effects of westerly wind bursts on El Ni o: a new perspective
- XY376 EGU2012-6728
W. Duan, Y. Yu, and H. Xu
 Behaviors of nonlinearities modulating the El Ni o events induced by optimal precursory disturbances

- XY377 EGU2012-6874
H.-Y. Son, J.-Y. Park, and J.-S. Kug
Winter Precipitation variability over East Asia associated with ENSO
- XY378 EGU2012-7035
M. Ohba, H. Shiogama, T. Yokohata, and M. Watanabe
Phase-dependent Impact of Strong Tropical Volcanic Eruption on predicting ENSO
- XY379 EGU2012-8944
S. Ineson and T. Graham
ENSO in the HadGEM2-ES CMIP5 centennial simulations
- XY380 EGU2012-10485
A. Babonneix, L. Gourdeau, F. Durand, C. E. Menkes, and N. Djath
Impact of ENSO variability on the Pacific Equatorial Undercurrent (EUC) sources: A modeling approach depending on the horizontal resolution
- XY381 EGU2012-13576
B. Rodríguez de Fonseca, E. Mohino, T. Losada, M. Martin-Rey, and I. Polo
Multidecadal Modulation of Tropical Atlantic impact on ENSO
- XY382 EGU2012-3088
H. Ding, N. Keenlyside, and M. Latif
Potential of Equatorial Atlantic Variability to Enhance El Niño Prediction

Thursday, 26 April

BG6.2 – Calcification in marine organisms: ocean-acidification and proxy-development studies (including Vladimir Ivanovich Vernadsky Medal Lecture) (co-listed) – Orals

Convener: LJ de Nooijer | Co-Conveners: K. G. Schulz, G.-J. Reichart, A. Meibom

Room: 23

Chairperson: LJ de Nooijer

- 08:30–08:45 EGU2012-1070
R.H. Maneja, A.Y. Frommel, A.J. Geffen, A Folkvord, U. Piatkowski, M.Y. Chang, and C. Clemmesen
 Effects of ocean acidification on the calcification of otoliths of larval Atlantic cod, *Gadus morhua* L.
- 08:45–09:00 EGU2012-2240
V. Saderne and M. Wahl
 Effect of Ocean acidification on growth, calcification and reproduction of calcifying and non-calcifying epibionts of brown algae
- 09:00–09:15 EGU2012-2575
L. Jonkers, P. Jimenez-Amat, and G.-J. A. Brummer
 Size-dependent seasonality of fluxes, stable isotopes and trace element composition of the planktonic foraminifera *Neogloboquadrina pachyderma* s. and *Globigerina bulloides* in the Irminger Sea
- 09:15–09:30 EGU2012-3889
J. Halfar, P. Chan, W. Adey, S. Hetzinger, B. Williams, R. Steneck, and P. Lebednik
 Century-scale variability of Coralline Algal Calcification Rates in the North Pacific and North Atlantic
- 09:30–09:45 EGU2012-4674
R. Andreson, H. Anlauf, L. Mackinder, D. Iglesias-Rodriguez, J. LaRoche, and B. Lenhard
 Transcriptome analysis of *Emiliana huxleyi* cells grown under different conditions using high-throughput sequencing data
- 09:45–10:00 EGU2012-6576
H. Poigner, D. Monien, P. Monien, M. Kriews, H.-J. Brumsack, D. Wilhelms-Dick, and D. Abele
 Element ratios between digestive gland and gill tissues of the Antarctic bivalve *Laternula elliptica* as a proxy for element uptake from different environmental sources

COFFEE BREAK

Chairperson: K Schulz

- 10:30–10:45 EGU2012-6933
T. Toyofuku, H. Nomaki, M. Tsuchiya, and H. Kitazato
 Foraminiferal cellular Calcium and pH distribution by laboratory observation
- 10:45–11:00 EGU2012-6959
S. Mau, F. J. R. Meysman, R. Schoon, A. Bissett, and D. de Beer
 Microphytobenthic induced calcification - A modelling approach
- 11:00–11:15 EGU2012-7462
C.E. Mueller, D. van Oevelen, and J. J. Middelburg
 Influence of *Eunice norvegica* on feeding and calcification in the coral *Lophelia pertusa*
- 11:15–11:30 EGU2012-7817
L.C.M. Mackinder, L.T. Bach, K.G. Schulz, G Wheeler, D.C. Schroeder, C Brownlee, and U Riebesell
 Calcification and inorganic carbon uptake in the coccolithophore *Emiliana huxleyi*
- 11:30–11:45 EGU2012-8514
D.E. Jacob, R. Wirth, A.L. Soldati, and U. Wehrmeister
 Bivalves build their shells from amorphous calcium carbonate
- 11:45–12:00 EGU2012-8521
K.A Koho and G-J Reichart
 Benthic foraminiferal trace metal uptake: a field calibration from the Arabia Sea Oxygen Minimum Zone

LUNCH BREAK

Chairperson: GJ Reichart

- 13:30–13:45 EGU2012-9281
M. Y. Chang, A. J. Geffen, R. D. M. Nash, and C. Clemmesen
 The Regional Patterns of Chemical Composition in the Otolith Core of Larval Fish
- 13:45–14:00 EGU2012-11407
S. Loucaides, A. Poulton, R. Bellerby, and T. Tyrrell
 Coccolithophore community composition and calcification rates in the Norwegian and Greenland seas as a function of carbonate chemistry and other environmental parameters.
- 14:00–15:00 EGU2012-14452
J.-P. Gattuso
 Precipitation and dissolution of calcium carbonate: key processes bridging the bio- and geosciences
 (Vladimir Ivanovich Vernadsky Medal Lecture)

BG6.2 – Calcification in marine organisms: ocean-acidification and proxy-development studies (including Vladimir Ivanovich Vernadsky Medal Lecture) (co-listed) – Posters

Convener: LJ de Nooijer | Co-Conveners: K. G. Schulz, G.-J. Reichart, A. Meibom

Poster Area BG | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: LJ de Nooijer

- BG35 EGU2012-3310
H. Stoll, L.M. Mejia-Ramirez, K. Isensee, A. Mendez-Vicente, and J. Pisonero
 Diatom biomineralization reflected in diatom B/Si
- BG36 EGU2012-3497
C. Cleroux, P. deMenocal, J. Arbuszewski, and B. Linsley
 Reconstruct the past thermocline circulation in the Atlantic: calcification depths and Mg/Ca-temperature calibrations for 6 deep-dwelling planktonic foraminifera
- BG37 EGU2012-3719
L. Jonkers, L de Nooijer, G.J. Reichart, and R. Zahn
 The effect of encrustation on the trace element composition of Neogloboquadrinadutertrei, implications for reconstructing past sea water temperature
- BG38 EGU2012-4274
F. Le Moigne, R.J. Sanders, M. Villa, A. Martin, K. Pabortsava, H. Planquette, P.J. Morris, and S.J. Thomalla
 The role of biomineral in the transport of POC from the surface ocean
- BG39 EGU2012-4340
S. Lee
 Biocatalytic CO₂ sequestration based on shell regeneration
- BG40 EGU2012-5012
F. Bagusche, S. Pouvreau, C. Trueman, S. Long, and C. Hauton
 Impacts of ocean acidification on gene expression and biomineralisation in the Pacific oyster *Crassostrea gigas* Thunberg, 1793
- BG41 EGU2012-5680
LJ de Nooijer, R Tjallingii, GJ Brummer, and GJ Reichart
 Seasonality in the Arabian Sea over glacial-interglacial cycles
- BG42 EGU2012-7505
X.L You and Q. Li
 Spheroidal dolomite texture as proxy for microbially mediated dolomite
- BG43 EGU2012-9191
 D.E. Jacob and **U. Wehrmeister**
 Evidence for variable crystallinity in bivalve shells
- BG44 EGU2012-9754
M. Hart, L. Pettit, D. Wall-Palmer, C. Smart, J. Hall-Spencer, A. Medina-Sanchez, R.M. Prol Ledesma, R. Rodolfo-Metalpa, and P. Collins
 Investigation of the calcification response of foraminifera and pteropods to high CO₂ environments in the Pleistocene, Paleogene and Cretaceous
- BG45 EGU2012-11062
M. Wall, G. M. Schmidt, S. Khokkatiwong, and C. Richter
 Coral calcification and reef development under natural disturbances
- BG46 EGU2012-11553
V. Saderne, M. Wahl, and P.M.J. Herman
 Extreme variations of pCO₂ and pH in a macrophyte meadow of the Baltic Sea in summer: evidence of the effect of photosynthesis and local upwelling.
- BG47 EGU2012-12167
W. Feldmeijer, B. Metcalfe, M. de Vringer, G.-J. Brummer, and M. Prins
 Sensing seasonality in the North Atlantic during Termination III: an Individual Specimen Analysis.

- BG48 EGU2012-12350
I.E.Y. van Dijk, L.J. de Nooijer, T. Toyofuku, and G.J. Reichert
 Species-specific impacts of temperature and seawater Mg/Ca on foraminiferal Mg/Ca
- BG49 EGU2012-12626
N. Fruchter, J. Erez, A. Eisenhauer, M. Dietzel, A. Niedermayr, J. Fietzke, and F. Boehm
 Strontium and Calcium Isotope Fractionation during Aragonite Formation - Corals versus Inorganic Precipitation
- BG50 EGU2012-11016
T.R.R. Bontognali, C. Vasconcelos, and J.A. McKenzie
 Role of Organic Acids in Bioformation of Kaolinite: Results of Laboratory Experiments

CL1.5 – Climate response to orbital forcing (including Milutin Milankovic Medal Lecture) – Orals

Convener: E.L. McClymont | Co-Conveners: A. Dolan, A. M. Haywood

Room: 15

Chairperson: Alan Haywood, Aisling Dolan

- 13:30–13:45 EGU2012-4867
A. Ganopolski and R. Calov
 Simulation and understanding the nature of Quaternary glacial cycles
- 13:45–14:00 EGU2012-4950
M.-F. Loutre, T. Fichefet, H. Goosse, P.-Y. Barriat, Y. Sallaz-Damaz, A. Timmermann, A. Laurian, and A. Barthélemy
 The 6 and 130 kyr BP climates as simulated by an updated version of LOVECLIM1.2
- 14:00–14:15 EGU2012-7387
W.H.G Roberts and P.J. Valdes
 The tropical Pacific climate response to the changing forcing over the last glacial cycle
- 14:15–14:30 EGU2012-10876
T. Rodrigues, A. H. L. Voelker, F. Naughton, J. O. Grimalt, and F. A. Abrantes
 Past climate variability in the Iberian Margin during Marine Isotope Stages 15-9 (570 to 300 ka): Suborbital glacial variability and interglacial stability
- 14:30–14:45 EGU2012-12548
S Kender, C Ravelo, H Asahi, J Becker, I Hall, M Leng, M Kaminski, T Radi, and I Aiello
 Bering Sea deep water ventilation over the last 2 Ma, evidence from foraminiferal assemblages and stable isotopes
- 14:45–15:00 EGU2012-11052
D. Bell, S. Jung, D. Kroon, D. Hodell, and L. Lourens
 Towards understanding orbital scale climate dynamics in the early Pliocene warm world
- Chairperson: Alan Haywood, Aisling Dolan
- 15:30–16:30 EGU2012-14453
W.H. Berger
 Milankovitch theory - hits and misses (Milutin Milankovitch Medal Lecture)
- 16:30–16:45 EGU2012-11621
 A.C. Fowler, R.E.M. Rickaby, and **E.W. Wolff**
 Modelling paleoclimate with a simple box model
- 16:45–17:00 EGU2012-13635
A Abe-Ouchi, F Saito, K Kawamura, and M.E. Raymo
 Multiple steady states of Northern Hemisphere ice sheets and the timing of glacial cycles

CL1.5 – Climate response to orbital forcing (including Milutin Milankovic Medal Lecture) – Posters

Convener: E.L. McClymont | Co-Conveners: A. Dolan, A. M. Haywood

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Alan Haywood, Aisling Dolan

- XY110 EGU2012-1387
A. W. Omta
 Difference between the glacial cycles of Antarctic temperature and greenhouse gases
- XY111 EGU2012-3946
S. Kim, K. Takahashi, Y. Kanematsu, H. Asahi, and B.K. Khim
 Surface water productivity in the Bering Sea and the subarctic North Pacific in response to global climate cooling during the last 2.32 Myrs

- XY112 EGU2012-4360
N. Bounceur, **P. Araya-Melo**, and M. Crucifix
Global sensitivity analysis of GCMs to astronomical forcing, CO₂ and ice volume
- XY113 EGU2012-4589
C. Zeeden and T.A. Rivera
Determining phase relations of proxy data using the eccentricity-precession pattern
- XY114 EGU2012-5531
E. Gasson, D. Lunt, D. Pollard, and M. Siddall
Orbital interpolation methods for coupling GCMs to ice sheet models and potential impact on ice sheet hysteresis
- XY115 EGU2012-9806
A. D. Häuselmann, D. Fleitmann, H. Cheng, L.R. Edwards, and M. Fischer
Evidence of an early Termination II at 133 ka in a Swiss high alpine stalagmite
- XY116 EGU2012-12353
H. Beddow, A. Sluijs, D. Liebrand, B. Wade, A. Holbourn, P. Bown, and L. J. Lourens
Glaciation, orbital forcing and carbon cycle changes at the Oligocene/Miocene boundary
- XY117 EGU2012-1385
A. W. Omta, G. A. K. van Voorn, R. E. M. Rickaby, and M. J. Follows
On the potential role of marine calcifiers in glacial-interglacial dynamics
- XY118 EGU2012-3274
M. Tigchelaar and A. Timmermann
Understanding precessional variations in tropical precipitation
- XY119 EGU2012-386
P. Bajo, R. Drysdale, J. Woodhead, J. Hellstrom, Y. Perrette, G. Zanchetta, and C. Spötl
A stalagmite from Corchia cave (Italy) - an archive of palaeoclimate information on three Terminations during the Middle Pleistocene Transition
- XY120 EGU2012-648
F. Colleoni, S. Masina, A. Negri, and A. Marzocchi
Plio-Pleistocene high-low latitude climate interplay: a Mediterranean point of view
- XY121 EGU2012-3327
O.E. Romero, M. Mohtadi, P. Helmke, and D. Hebbeln
High Interglacial Diatom Paleoproductivity in the Western Indo-Pacific Warm Pool During the Last Glacial Cycle
- XY122 EGU2012-4931
C. Zeeden, J. de Jonge, F.J. Hilgen, and L. Lourens
Phase relations between orbital forcing and terrestrial response in the equatorial Atlantic over the last 10 Ma
- XY123 EGU2012-11491
F. Parrenin and D. Paillard
Timing and amplitude of glacial cycles from a conceptual model
- XY124 EGU2012-12443
R. Zech
The permafrost glacial hypothesis: Is permafrost carbon the black box between insolation forcing and global climate?
- XY125 EGU2012-13786
B. Zhou and P. Zhao
Modeling variations of summer upper-tropospheric temperature and associated climate over the Asian-Pacific region during the mid-Holocene

CL1.10 – Interglacial climate change - Learning from paleoclimate archives and models (co-sponsored by the IGBP project Past Global Changes (PAGES) and the FP7 project Past4Future) – Orals

Convener: H. Renssen | Co-Conveners: D. Dahl-Jensen, H. Fischer

Room: 16

Chairperson: H. Renssen

- 08:30–08:45 EGU2012-12136
G.J. Tye, A.P. Palmer, I. Candy, P. Coxon, and M. Hardiman
Investigating annually-resolved natural climate variability during MIS 11 using lacustrine records
- 08:45–09:00 EGU2012-375
J. Dabkowski, N. Limondin-Lozouet, P. Antoine, A. Marca-Bell, and J. Andrews
Were the MIS 11 and MIS 5e warmer and/or wetter than the Holocene? Test comparison of Interglacial intensities using stable isotope data from Northern France tufa deposits.
- 09:00–09:15 EGU2012-10898
A. de Vernal, B. Fréchet, C. Hillaire-Marcel, N. van Nieuwenhove, and S. Retailleau
The last interglacial in eastern Canada and the northwest North Atlantic : further evidence for warmer climate and ocean conditions than during the Holocene

- 09:15–09:30 EGU2012-1029
S. Schoenemann, Q Ding, E Steig, and A Schauer
 Ice Core Measurements and GCM Simulation of the Spatial Distribution and Glacial-Interglacial Change of $\delta^{18}O$ -excess in Antarctica
- 09:30–09:45 EGU2012-10699
D. Oliveira, F. Naughton, R. Trigo, T. Rodrigues, J-M. Jouanneau, and O. Weber
 Holocene climate variability in south-western France
- 09:45–10:00 EGU2012-9080
T. Laepple and P. Huybers
 How variable is the Holocene?

COFFEE BREAK

Chairperson: H.Fischer

- 10:30–10:45 EGU2012-8391
M. Sarnthein and H. Sadatzki
 Planktic $\delta^{18}O$ records in the northern South China Sea: MIS 5.5 vs MIS 1
- 10:45–11:00 EGU2012-5919
H.A. Bauch
 Deglacial subsurface injections of Atlantic water into the Nordic Seas and its effect on interglacial climate development
- 11:00–11:15 EGU2012-5058
N. Merz, C.C. Raible, and T.F. Stocker
 Atmospheric circulation in the early Holocene: Sensitivity of the North Atlantic winter climate to moderate changes in the ice-sheet configuration
- 11:15–11:30 EGU2012-6020
T. Bruecher, V. Brovkin, M. Cuntz, and C. Reick
 Modeled vs. reconstructed $\delta^{13}C$ variability within interglacials
- 11:30–11:45 EGU2012-8910
 V. Gkinis, **S. B. Simonsen**, T. J. Popp, D. D. Jensen, S. L. Buchardt, B. Vinther, and S. J. Johnsen
 The Holocene climatic optimum temperature signal from the NGRIP record. A study based on the water isotope diffusion rates as estimated from discrete high-resolution $\delta^{18}O$ data.
- 11:45–12:00 EGU2012-3624
 P. Zennaro, **C. Barbante**, N. Kehrwald, R. Zangrando, A. Gambaro, and J. Gabrieli
 Late Holocene fire activity recorded in a Greenland ice core

CL1.10 – Interglacial climate change - Learning from paleoclimate archives and models (co-sponsored by the IGBP project Past Global Changes (PAGES) and the FP7 project Past4Future) – Posters

Convener: H. Renssen | Co-Conveners: D. Dahl-Jensen, H. Fischer

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: D. Dahl-Jensen

- XY126 EGU2012-155
J. Nitychoruk, K. Biřka, H. Ruppert, and A. Tudryn
 Short-term climate changes in the Holsteinian Interglacial - EGU2012-132
- XY127 EGU2012-376
J. Dabkowski, J. Andrews, P. Antoine, N. Limondin-Lozouet, and A. Marca-Bell
 Eemian seasonal temperature variations recorded by very high-resolution analyses of a MIS 5e stromatolite from Caours (Somme Basin, Northern France): combining petrography and stable isotopes.
- XY128 EGU2012-2124
V. Ollivier, P. Roiron, S. Nahapetyan, S. Joannin, and C. Chataigner
 Tufa and travertine of the Lesser Caucasus: a light on the Quaternary palaeoenvironment of the Circumcaspien regions
- XY129 EGU2012-2461
EW Wolff
 What is an interglacial?
- XY130 EGU2012-5832
 A. Mairesse, P. Mathiot, **H. Goosse**, S. Dubinkina, and Y. Sallaz-Damaz
 How does data assimilation in the Northern Hemisphere affect the representation of Holocene climate ?

- XY131 EGU2012-6250
H. Renssen, H. Seppä, X. Crosta, H. Goosse, and D.M. Roche
Global characterization of the Holocene Thermal Maximum
- XY132 EGU2012-7285
Y. Milker, M. Kucera, M. Prange, R. Rachmayani, and M. Schulz
Diachronous timing of the MIS11 thermal optimum revealed by a global compilation of sea-surface temperature records
- XY133 EGU2012-8348
J. Sherriff, D. Schreve, I. Candy, and A. Palmer
The terrestrial response to climatic instability during the latter stages of Marine Isotope Stage 11: Examples from Britain
- XY134 EGU2012-8613
S. Lauterbach, A. Brauer, T. Litt, and G. Schettler
Re-evaluation of the Bispingen palaeolake record - a revised chronology for the Eemian in Northern Germany
- XY135 EGU2012-8705
P. Bakker, H. Renssen, and C.J. Van Meerbeeck
Did Greenland Ice Sheet melting weaken the AMOC during the early part of the last interglacial? A model analysis of the uncertainties.
- XY136 EGU2012-10803
M. Blaschek and H. Renssen
The sensitivity of Arctic sea ice production to shelf flooding during the early Holocene: a modelling study
- XY137 EGU2012-10858
S. Gomes, F. Naughton, T. Rodrigues, T. Drago, M. Sanchez-Goñi, and C. Freitas
Mid-late Holocene climatic changes in the Southwestern Iberian shelf
- XY138 EGU2012-10927
T. Jenk, M. Rubino, D. Etheridge, M. Bigler, and T. Blunier
Greenland CO₂ and $\delta^{13}C$ of CO₂ - assigning the contamination
- XY139 EGU2012-11190
K. Tachikawa, L. Vidal, and C. Sonzogni
Thermal history of the Western Pacific Warm Pool as an indicator of global temperature
- XY141 EGU2012-12958
A. Gogou, I. Bouloubassi, K.-C. Emeis, M. Triantaphyllou, G. Katsouras, G. Rousakis, and V. Lykousis
Holocene climate variability and environmental changes in the NE Mediterranean Sea along a N-S transect
- XY142 EGU2012-13043
B.M. Vinther, H.B. Clausen, S. Kipfstuhl, H. Fischer, M. Bigler, H. Oerter, A. Wegner, F. Wilhelms, M. Severi, R. Udisti, J. Beer, F. Steinhilber, R. Muscheler, S.O. Rasmussen, and A. Svensson
An annual layer counted EDML time scale covering the past 16700 years
- XY143 EGU2012-13236
C. Kissel, A. Van Toer, E. Michel, and E. Cortijo
Variations in the Strength of the North Atlantic Bottom water during Holocene.
- XY144 EGU2012-13825
A. El Ouahabi, **B. Martrat**, J. F. Lopez, and J. O. Grimalt
PIG2LIG-4FUTURE: a database

CL2.3 – Urban climate, urban heat island and urban biometeorology – Orals

Convener: K. Kourtidis | Co-Conveners: K. de Ridder, T. Prieto-Lopez

Room: 13

Chairperson: Koen DeRidder

- 08:30–08:45 EGU2012-149
M. Demuzere, A. Coutts, N.P.M. van Lipzig, and K. Oleson
Offline evaluation of the Community Land Model - Urban for Toulouse (France) and Melbourne (Australia)
- 08:45–09:00 EGU2012-11473
N. Blond, M. Kohler, D. Mauree, S. H. Sajjad, and A. Clappier
Development of a new canopy model to improve urban meteorology modeling
- 09:00–09:15 EGU2012-14394
M. Wattenbach, J.M. Delgado, S. Roessner, M. Bochow, A. Güntner, J. Kropp, A.G. Cantu Ros, F. Hattermann, T. Kolbe, S. Sodoudi, U. Ulrich Cubasch, J. Zeitz, L. Ross, K. Böckel, C. Fang, L. Bo, and G. Pan
A combined remote sensing and modeling based approach to identify sustainable pathways for urban and peri-urban agriculture in China
- 09:15–09:30 EGU2012-5429
N. Müller and W. Kuttler
Assessment of human thermal comfort and mitigation measures in different urban climatotypes

- 09:30–09:45 EGU2012-4042
L. Järvi, A. Nordbo, S. Haapanala, J. Moilanen, and T. Vesala
 Spatial and temporal variability of turbulent vertical fluxes in Helsinki, Finland
- 09:45–10:00 EGU2012-6591
T.-C. Chen, M.-C. Yen, and J.-D. Tsay
 Synoptic Development of the Afternoon Thunderstorm Activity in An Over-Urbanized Valley: Taipei (Taiwan)

CL2.3 – Urban climate, urban heat island and urban biometeorology – Posters

Convener: K. Kourtidis | Co-Conveners: K. de Ridder, T. Prieto-Lopez

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Tatiana Prieto-Lopez

- XY145 EGU2012-1773
E. Plavcová, H. Davidková, and J. Kyselý
 Do sudden air temperature and pressure changes affect cardiovascular morbidity and mortality?
- XY146 EGU2012-2006
I. Keramitsoglou and C. T. Kiranoudis
 Fully automated extraction and analysis of surface Urban Heat Island patterns from moderate resolution satellite images
- XY147 EGU2012-2228
Y. Ezber, Z Boybeyi, O.L. Sen, and M. Karaca
 INVESTIGATION of LOCAL FLOW FEATURES in ISTANBUL via HIGH RESOLUTION ATMOSPHERIC SIMULATIONS
- XY148 EGU2012-2684
M. Zuvela-Aloise, J. Nemeč, B. Frueh, and R. Boehm
 Future climate scenarios of urban heat stress in Vienna
- XY149 EGU2012-9854
S. Sodoudi, I. Langer, and U. Cubasch
 Micro Climate Simulation in new Town 'Hashtgerd'
- XY150 EGU2012-10546
M. Xie and Y. G. Li
 Understanding of urban thermal environment in Hong Kong by data analysis and modeling
- XY151 EGU2012-11498
 D. Founda, A. Saliverou, **D. Rizou**, and H. Flocas
 Long term variability of sunshine hours in Athens and its relationship with air temperature
- XY152 EGU2012-11904
A. Hammerle, M. Heini, and G. Leitinger
 Cooling Town - a hot topic
- XY153 EGU2012-11937
 M. Madelin, **G. Beltrando**, and A. Sakhy
 Intensity and delimitation of the night Urban Surface Heat Island over the Paris metropolitan area
- XY154 EGU2012-12021
 D. Founda, F. Pierros, **P.T. Nastos**, and M. Petrakis
 Evolution of the urban heat island at a large coastal urban area of Mediterranean
- XY155 EGU2012-12458
R. Pongracz, J. Bartholy, E. Lelovics, ZS. Dezso, and I. Dobi
 Differences between satellite- and ground-based urban heat island effect - Case study for the Budapest agglomeration area
- XY156 EGU2012-12835
C. Ceppi, P. Balena, P. Loconte, and F. Mancini
 Urban Heat Island in the city of Bari (Italy) and its relationship with morphological features
- XY157 EGU2012-12880
 J. Nemeč, **M. Zuvela-Aloise**, and M. Kossmann
 Application of an urban climate model to several Austrian cities located in complex topography
- XY158 EGU2012-5403
S. Cohen, L. Shashua-Bar, O. Potchter, Y. Yaakov, P. Bar-Kutiel, and J. Tanny
 Sap flow measurement in a street and park of a hot and arid city
- XY159 EGU2012-14143
A. Bokwa
 Urban heat island in Krakow, Poland: Land use versus land form interaction
- XY160 EGU2012-4165
P. Dobrovolný, L. ?ezni?ková, and L. Krahula
 Spatial and temporal variability of urban heat island intensity in Brno (Czech Republic)

- XY161 EGU2012-5396
A. Goldbach and W. Kuttler
Influence of evapotranspiration on thermal comfort in central European cities
- XY162 EGU2012-9772
K. Menberg, P. Blum, K. Zhu, and P. Bayer
Urban heat islands in the subsurface of German cities
- XY163 EGU2012-2543
P. H. Lin, K. C. Mei, and Y. C. Chen
Preliminary observation result of urban boundary layer at Taipei 101 Skyscraper
- XY164 EGU2012-7869
M. Bakkali, M. Davies, and JP. Steadman
Developing an Integrated Approach for Local Urban Climate Models in London from Neighbourhood to Street Scale

AS4.5/BG2.17/CL2.6 – Vegetation-Atmosphere Interactions: From Emission to Atmospheric Particles and Climate (co-organized) – Orals

Convener: B. Bonn | Co-Conveners: M. Boy, S. M. Noe

Room: 14

Chairperson: Boris Bonn, Steffen M. Noe

- 08:30–08:45 EGU2012-12992
A.M. Trowbridge, H.D. Adams, D.D. Breshears, and R.K. Monson
Untangling the primary drivers of pinyon monoterpene production and emissions under predicted drought
- 08:45–09:00 EGU2012-754
M.H.A. van Geel, K.F. Boersma, J.E. Williams, V. Huijnen, T.P.C. van Noije, J. Vilà-Guerau de Arellano, D.J. Parker, C.E. Reeves, H. Schlager, M. Lichtenstern, J.G. Murphy, G. Mills, D.E. Heard, T. Ingham, and R. Commane
Towards a better understanding of isoprene emissions and chemistry above tropical forests with the TM5 model
- 09:00–09:15 EGU2012-4410
S. Bourtsoukidis, A. Dittmann, S. Jacobi, and B. Bonn
Driving forces of individual BVOC emissions from a spruce tree in Central Germany; results from a dynamic enclosure study.
- 09:15–09:30 EGU2012-7949
I. Bamberger, L. Hörtnagl, T. Ruuskanen, R. Schnitzhofer, M. Müller, M. Graus, T. Karl, G. Wohlfahrt, and A. Hansel
Deposition of terpenes to vegetation - a paradigm shift towards bidirectional VOC exchange?
- 09:30–09:45 EGU2012-847
G. Salque-moreton, Y. Liu, D. Voisin, F. Siekmann, P. Renard, A. Monod, and R. Thissen
A HRMS study of oligomer formation through aqueous phase photooxidation of methylvinyl-ketone and methacrolein
- 09:45–10:00 EGU2012-3934
H. G. Takahashi, H.-J. Kim, K. Tanaka, K. Takata, K. Saito, and T. Yasunari
Sensitivity study on the impacts of biogenic VOC on the Asian monsoon climate in dry and wet seasons using MIROC5

AS4.5/BG2.17/CL2.6 – Vegetation-Atmosphere Interactions: From Emission to Atmospheric Particles and Climate (co-organized) – Posters

Convener: B. Bonn | Co-Conveners: M. Boy, S. M. Noe

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 10:30–12:00

Chairperson: Steffen M. Noe, Boris Bonn

- XY56 EGU2012-8889
M. Beck and T. Hoffmann
Formation and characterization of dimeric compounds in Secondary Organic Aerosol
- XY57 EGU2012-1073
T. Rusu, P. I. Moraru, M. L. Sopterean, A. I. Pop, and H. Cacovean
Climate Monitoring and Recommendations on the Optimum Sowing Period for the Main Crops in the Transylvanian Plain, Romania
- XY58 EGU2012-1198
M. Li, X. Huang, J. Li, and Y. Song
Estimation of biogenic volatile organic compound (BVOC) emissions from the terrestrial ecosystem in China using real-time remote sensing data

- XY59 EGU2012-1944
E. Chalaya, V. Slepikh, A. Babyakin, and N. Povolotckaia
The seasonal dynamics of bacteriostatic character of oak forests
- XY60 EGU2012-2783
B. Illes and A. Anda
Field effects of cadmium contamination in the radiation characteristics of maize
- XY61 EGU2012-7186
J. Regnery, T. Dindorf, L. Hacker, S. Andres, E. Kleist, J. Wildt, and J. Kesselmeier
Development and application of an analytical method for the determination of total atmospheric biogenic non-methane organic carbon
- XY62 EGU2012-8678
R. J. Jakob and T. Hoffmann
Development of a chiral separation method for the enantiomers of two atmospheric oxidation products of α -pinene
- XY63 EGU2012-9247
M. J. D. Mann, M. Kundel, and T. Hoffmann
Online Quantification of gaseous Amines via Aerosol Mass Spectrometry
- XY64 EGU2012-10196
P. Veres, J. Auld, and J. Williams
Tropical Greenhouse Measurements of Volatile Organic Compounds Using Switchable Reagent Ion Proton-Transfer-Reaction Time-of-Flight Mass Spectrometry (PTR-TOF-MS)
- XY65 EGU2012-10376
M. Walsler, I. Bamberger, L. Hörtnagl, G. Wohlfahrt, and A. Hansel
Drought induced methanol emission from grassland
- XY66 EGU2012-10544
R. Kohl, **B. Bonn**, S. Bourtsoukidis, H. Wex, F. Stratmann, H. Bingemer, W. Haunold, and S. Jacobi
Aerosol and cloud condensation nuclei formation at Mt. Kleiner Feldberg, Germany
- XY67 EGU2012-2771
B. Illes and **A. Anda**
Changes in radiative properties of soot contaminated maize canopy

CL2.7 – Earth radiation budget, radiative forcing and climate change – Orals

Convener: M. Wild | Co-Conveners: R. Philipona, P. Stackhouse

Room: 15

Chairperson: Martin Wild, Rolf Philipona

- 08:30–08:45 EGU2012-1886
R. Cahalan, P. Pilewskie, and T. Woods
Free Flyer Total and Spectral Solar Irradiance Sensor (TSIS) and Climate Services Mission
- 08:45–09:00 EGU2012-5194
P. Pilewskie, T. Woods, and R. Cahalan
Solar Spectral Irradiance and Climate
- 09:00–09:15 EGU2012-8591
A. Voigt, B. Stevens, J. Bader, and T. Mauritsen
The hemispheric distribution of reflected shortwave radiation in observations and aquaplanet climates
- 09:15–09:30 EGU2012-11113
M. Previdi, **K. L. Smith**, and L. M. Polvani
Estimating the Influence of the Stratospheric Processes on the Antarctic Atmospheric Energy Budget
- 09:30–09:45 EGU2012-2971
E. M. Zubler, U. Lohmann, D. Lüthi, C. Schär, and M. Wild
Simulation of dimming and brightening in Europe from 1958 to 2001 using a regional climate model
- 09:45–10:00 EGU2012-5222
D. Folini and M. Wild
Surface solar radiation and hydrological cycle in 20th century China: sensitivity studies with ECHAM5-HAM

COFFEE BREAK

Chairperson: Martin Wild, Rolf Philipona

- 10:30–11:00 EGU2012-11872
J. Hansen, K. von Schuckmann, M. Sato, and P. Kharecha
Earth's Energy Imbalance and Implications

- 11:00–11:15 EGU2012-9868
J. C. Chiu and W. J. Wiscombe
 Earth's Radiation Imbalance from a Constellation of 66 Iridium Satellites
- 11:15–11:30 EGU2012-7689
M. Wild
 Earth radiation budget from a surface perspective and its representation in CMIP5 models
- 11:30–11:45 EGU2012-6623
X.L. Huang, H.W. Chuang, Y. Ming, and G.L. Potter
 A constraint for ice cloud feedback over the tropical Pacific in future climate change
- 11:45–12:00 EGU2012-4344
R.P. Allan, N.G. Loeb, J.M. Lyman, and G.C. Johnson
 Heating of Earth's climate continues in the 2000s based upon satellite and ocean observations

CL2.7 – Earth radiation budget, radiative forcing and climate change – Posters

Convener: M. Wild | Co-Conveners: R. Philipona, P. Stackhouse

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Martin Wild, Rolf Philipona

- XY165 EGU2012-1598
C. Lacagnina and F. Selten
 Cloud properties in the present-day tropical climate: EC-EARTH model biases
- XY166 EGU2012-6680
S.-H. Shin
 Model Evaluation for Low-Level Cloud Feedback
- XY167 EGU2012-5025
 A. Riihelä, **T. Manninen**, K. Andersson, and V. Laine
 The GAC-SAL: A new 27-year surface albedo data record from AVHRR
- XY168 EGU2012-4975
P. Thejll, C. Flynn, H. Schwarz, H. Gleisner, M. Owner-Petersen, A. Darudi, and T. Andersen
 First results from new Earthshine telescope on Mauna Loa
- XY169 EGU2012-1867
 G. Wen, **R. Cahalan**, D. Rind, J. Jonas, P. Pilewskie, and J. Harder
 Modeling Climate Responses to Spectral Solar Forcing on Centennial and Decadal Time Scales
- XY170 EGU2012-3170
A. Viudez-Mora, P.W. Stackhouse, and S. Kato
 Assessment for global longwave radiative fluxes estimated by GEWEX Surface Radiative Budget (SRB) project and the Calipso-CloudSat-CERES-MODIS (CCCM).
- XY171 EGU2012-3501
K. Wang
 From Dimming to Brightening: Uncertainty of Measurements
- XY172 EGU2012-4770
Q. You, A. Sanchez-Lorenzo, M. Wild, D. Folini, and K. Fraedrich
 Surface solar radiation in the Tibetan Plateau from observations, reanalysis and model simulations
- XY173 EGU2012-13300
F. C. Cooper, S. Fueglistaler, and J. Du
 Global variations of atmospheric relative humidity as observed by AIRS
- XY174 EGU2012-6515
H. K. Bangalath, G. Stenchikov, M. Zampieri, R. Bantges, and H. Brindley
 Aerosol Radiative Forcing and Regional Climate Impact over Middle East and North Africa
- XY175 EGU2012-13518
A. di Sarra, C. Di Biagio, D. Meloni, F. Monteleone, G. Pace, S. Pugnaghi, and D. Sferlazzo
 The intense Saharan dust event of 25-26 March 2010 in the Mediterranean: shortwave and longwave radiative effects
- XY176 EGU2012-8556
B. H. Samset and G. Myhre
 Vertical profiles of aerosol radiative forcing - a comparison of AEROCOM phase 2 model submissions
- XY177 EGU2012-12389
G. Alexandri, A.K. Georgoulas, C. Meleti, K. Kourtidis, and D. Balis
 Investigation of the aerosol effect on the variability of the shortwave radiation over Europe with the use of ground based and satellite measurements
- XY178 EGU2012-7262
R. Philipona and A. Kräuchi
 Measuring solar- and greenhouse radiation profiles in the atmosphere using upper-air radiosondes

- XY179 EGU2012-7295
R. Philipona
Greenhouse warming and solar brightening in and around the Alps
- XY180 EGU2012-7673
J. Trentmann, S. Brinckmann, R.W. Müller, and D. Dee
Homogeneity Analysis of Gridded Data Sets of the Surface Solar Radiation
- XY181 EGU2012-11046
E.J.M. van den Besselaar, **A. Sanchez-Lorenzo**, M. Wild, and A.M.G. Klein Tank
Possible role of the dimming/brightening in observed temperatures across Europe since the second half of the 20th century
- XY182 EGU2012-4332
A. Sanchez-Lorenzo and M. Wild
Variability and trends of reconstructed surface radiation in Switzerland since late 19th century
- XY183 EGU2012-5920
A. Sanchez-Lorenzo, J. Calbó, and M. Wild
New surface solar radiation and evaporation datasets in Spain: in search of a better understating of the dimming/brightening
- XY184 EGU2012-5066
D. Folini and M. Wild
Surface solar radiation in 20th century Europe: dimming and brightening as seen by ECHAM5-HAM
- XY185 EGU2012-7893
M. Z. Hakuba, M. Wild, D. Folini, A. Sanchez-Lorenzo, and G. Schaepman-Strub
Solar absorption estimated from surface radiation measurements and collocated satellite products
- XY186 EGU2012-7927
M. Wild
Enlightening Global Dimming and Brightening
- XY187 EGU2012-8051
M. Wild and E. Schmucki
Assessment of global dimming and brightening in IPCC-AR4/CMIP3 models and ERA40
- XY188 EGU2012-8328
M. Chiacchio, M. Wild, and B. Liepert
Global inspection of cloud feedbacks to radiative forcings from a satellite perspective
- XY189 EGU2012-13395
M. Chiacchio, E. Arabini, M. Wild, and D. Folini
A new gridded surface solar radiation dataset over Europe from the Global Energy Balance Archive: update
- XY190 EGU2012-14479
A. Roesch, M. Wild, and C. Ammann
Global dimming and brightening - evidence and agricultural implications
- XY191 EGU2012-9583
G. Stanhill, R. Rosa, and **S. Cohen**
THE ROLES OF WATER VAPOR, RAINFALL AND SOLAR RADIATION IN DETERMINING AIR TEMPERATURE CHANGE MEASURED AT BET DAGAN, ISRAEL BETWEEN 1964 and 2010
- XY192 EGU2012-8614
P. Weihs, W. Feitzinger, D. Baumgartner, J.E. Wagner, M. Rennhofer, W. Laube, J. Gademayer, and E. Hochwarter
Investigation of the effect of contrails on direct and diffuse irradiance
- XY193 EGU2012-9705
Dr. Olefs and Dr. Schoener
A new solar radiation model for research and applications in Austria
- XY194 EGU2012-11834
H. Löwe and N. Helbig
Quasi-analytical treatment of spatially averaged radiation transfer in complex terrain
- XY195 EGU2012-13883
R. Becker and K. Behrens
Homogenization of surface shortwave radiation data using satellite cloud cover and clear sky simulations
- XY196 EGU2012-13344
N. Hatzianastassiou, C. D. Papadimas, C. Matsoukas, K. Pavlakis, A. Fotiadi, M. Wild, and I. Vardavas
Features and causes of recent surface solar radiation dimming and brightening patterns

HS7.3/CL2.9/NP1.3 – Climate, water and health (co-organized) – Posters

Convener: A. Langousis | Co-Conveners: A. Jutla, A. Kolovos, A. A. Carsteanu, G. Christakos

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Andreas Langousis

- A139 EGU2012-585
H.-L. Yu, S.-J. Yang, and Y.-C. Lin
A climate-based spatiotemporal prediction for dengue fever epidemics: a case study in southern Taiwan
- A140 EGU2012-12919
M. Bray and D. Han
Comparative study on Climate Change Policies in the EU and China
- A141 EGU2012-1979
L. Righetto, S. Islam, Z.H. Mahmud, E. Bertuzzo, L. Mari, R. Casagrandi, M. Gatto, I. Rodriguez-Iturbe, M. Blokesch, and A. Rinaldo
Presence and viability of *V. Cholerae* in the waters of rural Bangladesh (Matlab area)
- A142 EGU2012-3607
M.V. Podimata, E.S. Bekri, and P.C. Yannopoulos
Proposing buffer zones and simple technical solutions for safeguarding river water quality and public health
- A143 EGU2012-3990
A S Akanda and A S Jutla
Hydroclimatic drivers, Water-borne Diseases, and Population Vulnerability in Bengal Delta
- A144 EGU2012-6046
W. Wagner and **R.A. Kidd**
The Use of Near-Real-Time Global ASCAT Soil Moisture Observations for Monitoring of Water Hazards
- A145 EGU2012-4710
J. Derx, A.H. Farnleitner, M. Zessner, and A.P. Blaschke
Water temperature effects on virus and DOC transport during riverbank infiltration
- A146 EGU2012-8731
E. Bertuzzo, L. Mari, L. Righetto, R. Casagrandi, M. Gatto, I. Rodriguez-Iturbe, and A. Rinaldo
An epidemic model for the future progression of the current Haiti cholera epidemic
- A147 EGU2012-7831
L. Baltesiu, M.T. Gomoiu, R. Mudura, G. Nicolescu, and V. Purcarea-Ciulacu
Contributions to integrative knowledge of West Nile virus reported in Romania - methods and tools for managing health-environment relationship at different spatial and temporal scales
- A148 EGU2012-6507
J. Pilz, **M. Mohsin**, and A. Gebhardt
A bivariate pseudo Gamma distribution with application to acid rain data
- A149 EGU2012-7639
S. F. Tseng, B. M. Hsu, K. H. Huang, H. Y. Hsiao, P. M. Kao, S. M. Shen, H. F. Tsai, and J. S. Chen
Detection and Identification of *Salmonella* spp. in Surface Water by Molecular Technology in Taiwan
- A150 EGU2012-7551
H. F. Tsai, B. M. Hsu, K. H. Huang, C. Y. She, P. M. Kao, S. M. Shen, S. F. Tseng, and J. S. Chen
Detection and Identification of Free-living *Amoeba* from Environmental Water in Taiwan by PCR Method
- A151 EGU2012-7696
S. Burak and R. Meddeb
Natural disaster vulnerability and human-induced pressure assessment in small islands developing states: A case study in the Union of the Comoros

HS7.4/AS4.17/CL2.10 – Climate, Hydrology and Water Infrastructure (co-organized) – Orals

Convener: D. Koutsoyiannis | Co-Conveners: T. Cohn, M. Mudelsee, H. Lins, J. L. M. P. de Lima, X. L. Wang, M. Naranjo, C. Tortajada, C. Arregoitia

Room: 33

Chairperson: n.n.

- 13:30–13:45 EGU2012-14002
Z. W. Kundzewicz
Changes in flood risk in Europe - Holistic perspective
- 13:45–14:00 EGU2012-698
C. Chaudhuri, R. Srivastava, and S N Tripathi
Development of a Dynamic Downscaling strategy for Ganga Basin and Investigation of the Hydrological Pattern
- 14:00–14:15 EGU2012-10854
J. Dahne, Dr. C. Donnelly, Dr. D. Gustavsson, and J. Södling
Using Discharge data and hydrological modelling to evaluate precipitation data
- 14:15–14:30 EGU2012-14357
M. Kallache
Assessing extreme values for water management purposes in the context of climate change

- 14:30–14:45 EGU2012-11319
A. Jobst, J. Schmid, R. Ludwig, and M. Muerth
 Impacts of climate change on the water management system on the alpine Upper Isar river with regards to hydro power potential and residual flow
- 14:45–15:00 EGU2012-984
C. Arregoitia and M.P Mesa
 Impact of climatic conditions on the design of a water treatment plant
- Chairperson: n.n.
- 15:30–15:45 EGU2012-4377
R.P. Allan, D.A. Lavers, C.L. Liu, and M. Zahn
 Current and future changes in precipitation and its extremes
- 15:45–16:00 EGU2012-11871
S.B. Guerreiro, C.G. Kilsby, and F. Serinaldi
 Analysis of Rainfall Changes in Transnational Basins in Portugal and Spain
- 16:00–16:15 EGU2012-5270
R. J. van der Ent and H. H. G. Savenije
 Oceanic versus continental sources of precipitation
- 16:15–16:30 EGU2012-8261
Y. Guo
 Long-term Free-Atmosphere absolute Humidity Trends in China Derived from Homogenized In situ Radiosonde Dew Point Temperature Series
- 16:30–16:45 EGU2012-956
E. Steirou and D. Koutsoyiannis
 Investigation of methods for hydroclimatic data homogenization
- 16:45–17:00 EGU2012-4731
 F. Johnson and **A. Sharma**
 On long-term persistence in GCM rainfall simulations: Implications for water resources planning and design

CL4.5/OS1.8 – Global and regional sea level rise and variability: from past to future (co-organized) – Orals

Convener: S. Jevrejeva | Co-Conveners: A. Cazenave, A. Grinsted

Room: 16

Chairperson: Grinsted

- 13:30–13:45 EGU2012-102
H. Palanisamy, B. Meyssignac, D. Peng, A. Cazenave, and M. Becker
 Regional sea level variability in the Caribbean and South China Sea over 60 years from 1950-2009
- 13:45–14:00 EGU2012-2347
J. Williams and C. W. Hughes
 Coherence of off-shore steric height and island sea level.
- 14:00–14:15 EGU2012-2672
A.B.A. Slangen, R.S.W. van de Wal, and L.L.A. Vermeersen
 Can we explain regional relative sea-level variations for the period 1961-2003?
- 14:15–14:30 EGU2012-3348
 G. Woppelmann and **M. Marcos**
 Coastal sea level rise in southern Europe and the nonclimate contribution of vertical land motion
- 14:30–14:45 EGU2012-3554
E. Giarolla and R. Matano
 Low-Frequency Variability of the Southern Ocean Circulation
- 14:45–15:00 EGU2012-5612
F. M. Calafat and D. Chambers
 Mechanisms of decadal sea level variability in the Eastern North Atlantic and the Mediterranean Sea
- Chairperson: Cazenave
- 15:30–15:45 EGU2012-6029
M. Geyer and D. Salas y Melia
 An assessment of the contribution of the Greenland ice sheet to future sea level rise
- 15:45–16:00 EGU2012-7273
D. Volkov and F. Landerer
 The Genesis of Sea Level Variability in the Barents Sea
- 16:00–16:15 EGU2012-7510
T. Kuhlbrodt and J. M. Gregory
 The spatial structure of simulated ocean heat uptake in the CMIP3 and CMIP5 climate models

- 16:15–16:30 EGU2012-8632
K. S. Madsen and T. Schmith
 Decadal sea level variations in the North Atlantic and Arctic Oceans
- 16:30–16:45 EGU2012-9155
M. Carson, A. Köhl, and D. Stammer
 Low-frequency sea surface height variability from long control runs of coupled models
- 16:45–17:00 EGU2012-9802
K. von Schuckmann, J.-B. Sallée, C. Cabanes, P.-Y. Le Traon, F. Gaillard, S. Speich, and M. Hamon
 The role of Argo steric sea level within the global sea level budget

CL4.5/OS1.8 – Global and regional sea level rise and variability: from past to future (co-organized) – Posters

Convener: S. Jevrejeva | Co-Conveners: A. Cazenave, A. Grinsted

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Jevrejeva

- XY197 EGU2012-2146
E.P.H. Bregman, I.Kant Baltic Federal State University, Kaliningrad, Russia; **Utrecht University, the Netherlands** and O.A. Druzhinina, I.Kant Baltic Federal State University, Kaliningrad, Russia
 Post-glacial coast development and human settling of the North European Ice Marginal Landscape (IML)
- XY198 EGU2012-3077
 B. Meyssignac, **O. Henry**, P. Prandi, A. Cazenave, and D. Stammer
 Past sea level reconstruction over the Arctic Ocean since the mid-1950s
- XY199 EGU2012-3304
 R. Torres and **M. Tsimplis**
 Seasonal sea level cycle in the Caribbean Sea
- XY200 EGU2012-3305
 R. Torres and **M. Tsimplis**
 Sea level trends and interannual variability in the Caribbean Sea
- XY201 EGU2012-3831
S. Jevrejeva, J. Moore, and A. Grinsted
 Trends and acceleration in regional sea levels
- XY202 EGU2012-3699
A. Cazenave, O. Henry, S. Munier, B. Meyssignac, T. Delcroix, W. Llovel, H. Palanisamy, and A. Gordon
 Estimating ENSO influence on the global mean sea level during 1993-2010
- XY203 EGU2012-3874
S. Jevrejeva, J. Moore, and A. Grinsted
 About the difference between sea level projections by 2100 using semi-empirical and process based models.
- XY204 EGU2012-4764
M. Benavent, J. Arnoso, and E. J. Vélez
 Tides at the east coast of Lanzarote Island
- XY205 EGU2012-5062
R. V. Donner, R. Ehrcke, S. M. Barbosa, J. Wagner, J. F. Donges, and J. Kurths
 Spatial patterns of linear and nonparametric long-term trends in Baltic sea-level variability
- XY206 EGU2012-5493
 M. Wenzel and **J. Schroeter**
 Regional and global sea level change since 1900 estimated from tide gauges and altimetry
- XY207 EGU2012-6050
M. Hewelt, B. Miziński, and T. Niedzielski
 Implementing algorithms for modelling and prediction of sea level change using threshold models
- XY208 EGU2012-6286
G. Chepurin and J. Carton
 Sea level Atlantic-to-Arctic: an examination of the altimeter record
- XY209 EGU2012-6811
E. C. Pavlis, K. Evans, P. Milas, D. Paradissis, B. A. Massinas, and X. Frantzis
 Aegean Sea Level Network: Eastern Mediterranean Altimeter Calibration Network - eMACnet
- XY210 EGU2012-6331
J.J. Martinez Benjamin, J. Gili, R. Lopez, A. Tapia, E. Bosch, B. Perez, and F. Pros
 Monitoring Sea Level by Tide Gauges and GPS at Barcelona and Estartit Harbours
- XY211 EGU2012-7671
G. Metreveli, N. Tsivtsivadze, K. Tavartkiladze, G. Dokhnadze, L. Lagidze, and N. Motsonelidze
 Characteristic Features of Sea Level Series Analysis in the World Ocean Current Climatic Eustasy Research
- XY212 EGU2012-6746
T. Suzuki and M. Ishii
 Decadal to inter-decadal sea level changes in the North Pacific

- XY213 EGU2012-10078
A. Hibbert
The Semiannual Oscillation of Southern Ocean Sea Level
- XY214 EGU2012-6765
A. Fadil, P. Denys, and R. Tenzer
Sea Level Rise In New Zealand: Vertical Land Motion from GPS, and Combined Satellite Altimetry And Tide Gauge Sea Level Records
- XY215 EGU2012-10420
A. P. Matthews, E. Bradshaw, K. M. Gordon, S. J. Holgate, S. Jevrejeva, L. J. Rickards, M. E. Tamisiea, and P. L. Woodworth
The Permanent Service for Mean Sea Level: A review of recent updates
- XY216 EGU2012-14377
M. Ablain, Y. Faugere, G. Larnicol, N. Picot, A. Cazenave, and J. Benveniste
Improvement of global and regional mean sea level derived from satellite altimetry multi missions
- XY217 EGU2012-7704
L. Scarascia and P. Lionello
Links between Sea Level in the northern Adriatic sea and large scale patterns
- XY218 EGU2012-12935
Y. Cheng and O.B. Andersen
Sea level annual cycle in sea level from tide gauges, altimetry and ocean models in the Polar Seas
- XY219 EGU2012-14142
M. Beenstock, E. Frank, D. Felsenstein, and Y. Rengewertz
Tide Gauge Location and the Measurement of Global Sea Level Rise
- XY220 EGU2012-13526
S. Esselborn
Patterns of Sea Level Variability in the North Atlantic
- XY221 EGU2012-12100
A. Bonaduce and N. Pinardi
Low frequency Sea Level Variability: correlation between altimetry and tide gauges in the Mediterranean Sea
- XY222 EGU2012-11534
S. Morucci, R. Inghilesi, and A. Orasi
Analysis of Long-Term Sea Level Variation in the Italian Seas
- XY223 EGU2012-1536
h. chen, P. Tkalich, and P. Malanotte-Rizzoli
The forced and free response of the South China Sea to the large scale monsoon system
- XY224 EGU2012-2746
P. L. Svendsen, O. B. Andersen, and A. A. Nielsen
Sea level reconstruction from satellite altimetry and tide gauge data
- XY225 EGU2012-11013
A. Ollivier, G. Valladeau, J.F. Legeais, Y. Faugere, N. Picot, and P. Femenias
Towards an improved altimeter time series for Envisat climate applications
- XY226 EGU2012-3726
D. Gomis and **G. Jordà**
Inconsistencies in sea level pressure trends between different atmospheric products. Impact on sea level trend estimation
- XY227 EGU2012-8688
T. Schmith, S. Johansen, and P. Thejll
Statistical analysis of global surface temperature and sea level using cointegration methods
- XY228 EGU2012-11364
B.D. Hamlington, R.R. Leben, and K.-Y. Kim
Improving Sea Level Reconstructions Using Non-Sea Level Measurements

AS4.13/CL4.7 – Aeolian dust, initiator, player, and recorder of environmental change (co-organized) – Orals

Convener: P. Knippertz | Co-Conveners: J.-B. Stuut

Room: 11

Chairperson: n.n.

- 10:30–10:45 EGU2012-10844
N. Huneus and the AeroCom Team
Global dust model intercomparison in AeroCom phase I
- 10:45–11:00 EGU2012-2213
M. Astitha, M. Abdel Kader, A. Pozzer, and J. Lelieveld
Assessment of two physical parameterization schemes for desert dust emissions in an atmospheric chemistry general circulation model

- 11:00–11:15 EGU2012-7176
I. Tegen, K. Schepanski, and B. Heinold
 Saharan dust source activation: Comparing two years regional modelling results and satellite observations
- 11:15–11:30 EGU2012-10359
B. Heinold, P. Knippertz, S. Fiedler, J. H. Marsham, and I. Tegen
 The Role of Deep Convection and Low-Level Jets Forcing Dust Emissions in West Africa: A High-Resolution Regional Dust Modelling Study
- 11:30–11:45 EGU2012-11125
C. Filizzola, F. Sannazzaro, P. Di Girolamo, F. Marchese, G. Mazzeo, D. Summa, R. Paciello, N. Pergola, and V. Tramutoli
 A Robust Satellite Technique (RST) for detection and monitoring of dust storms
- 11:45–12:00 EGU2012-4552
K. Schepanski, F. Marnas, C. Flamant, J.-P. Chaboureau, C. Kocha, J. Pelon, C. Lavaysse, T. J. Wright, and P. Knippertz
 A multi-observational Characterisation of Dust Emission from Sources within complex Terrain

LUNCH BREAK

Chairperson: n.n.

- 13:30–14:00 EGU2012-1498
A. Ansmann
 Lessons learned from the SAMUM-1 and SAMUM-2 field campaigns and future activities
- 14:00–14:15 EGU2012-11975
R Washington, D.J. Parker, J.H. Marsham, J. McQuaid, H. Brindley, M.C. Todd, E.J. Highwood, C. Flamant, J.-P. Chaboureau, C Kocha, A Saci, and M Bechir
 Fennec - The Saharan Climate System: an overview
- 14:15–14:30 EGU2012-4424
J. H. Marsham, C. Allen, M. Bart, B. J. Brooks, C. Cavazos-Guerra, S. Engelstaedter, M. Gascoyne, M. Hobby, J. B. McQuaid, A. O'Leary, A. Lima, V. Martins, B. Ouchene, A. Ouladichir, D. J. Parker, A. Saci, M. Salah-Ferroudj, M. C. Todd, and R. Washington
 An overview of the June 2011 Fennec surface-based observations in the central Sahara: New insights into dust uplift and transport
- 14:30–14:45 EGU2012-8488
C. Kocha, C. Flamant, F. Marnas, J.P. Chaboureau, D. Parker, J. Marsham, P. Knippertz, and L. Garcia-Carreras
 How a dusty cold pool can change the diurnal evolution of the Saharan Atmospheric Boundary Layer
- 14:45–15:00 EGU2012-5922
CL Ryder, EJ Highwood, P Rosenberg, J Trembath, M Bart, J Brooke, J Dorsey, K Turnbull, A Dean, I Crawford, R Cotton, J McQuaid, and R Washington
 Microphysical and Optical Properties of Saharan Dust from Airborne Measurements during the Fennec 2011 Campaign

Chairperson: n.n.

- 15:30–15:45 EGU2012-7055
H. Zheng
 Production of Asian dust: tectonics vs climate
- 15:45–16:00 EGU2012-2674
A. Bird, T Stevens, A Carter, T P Watson, P Vermeesch, H Lu, S Andò, E Garzanti, M A Cottam, I Sevastjanova, and M Rittner
 Genetic linkage between the Yellow River and the Chinese Loess Plateau
- 16:00–16:15 EGU2012-11026
A. Bory, W. Abouchami, S. Galer, A. Svensson, and P. Biscaye
 Chinese mineral dust and anthropogenic aerosol inter-continental transport: a Greenland perspective
- 16:15–16:30 EGU2012-6899
P. De Deckker
 Multidisciplinary studies of the dust storm that affected Sydney in September 2009
- 16:30–16:45 EGU2012-9676
S. Cowie, P. Knippertz, and K. Schepanski
 A Climatology of Dust-Emission Events over North Africa Based on 27 Years of Surface Observations

16:45–17:00 EGU2012-4094

F. Lambert, J.S. Kug, R.J. Park, N. Mahowald, A. Abe-Ouchi, R. O'Ishi, G. Winckler, and T. Takemura
Reconstruction of Holocene and LGM atmospheric dust aerosol concentrations from paleoclimatic archives

AS4.13/CL4.7 – Aeolian dust, initiator, player, and recorder of environmental change (co-organized) – Posters

Convener: P. Knippertz | Co-Conveners: J.-B. Stuut

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XY68 EGU2012-9691
I. Vlastelic, K. Sellegri, A. Colomb, K. Suchroski, L. Bouvier, and F. Nauret
Inorganic trace element content of aerosols at puy de Dôme, France
- XY69 EGU2012-9477
N. Meskhidze and M.S. Johnson
Updated dust-iron dissolution mechanism: Effects of organic acids, photolysis, and dust mineralogy
- XY70 EGU2012-641
M. Abdel Kader, M. Astitha, and J. Lelieveld
Evaluation of a Mineral Dust Simulation in the Atmospheric-Chemistry General Circulation Model-EMAC
- XY71 EGU2012-183
Dr. P. Kishcha, C. Carnevale, G. Finzi, E. Pisoni, M. Volta, S. Nickovic, and P. Alpert
Improving Air Pollution Modeling Over The Po Valley Using Saharan Dust Transport Forecasts
- XY72 EGU2012-9398
G.P. Gobbi, H. Wille, R. Sozzi, F. Angelini, F. Barnaba, F. Costabile, S. Frey, A. Bolignano, and A. Di Giosa
Saharan dust contribution to PM levels: The EC LIFE+ DIAPASON project
- XY73 EGU2012-13543
C. Pio, T. Nunes, J. Cardoso, A. Caseiro, **D. Custódio**, M. Cerqueira, D. Patoilo, S. M. Almeida, and M. C. Freitas
CV-Dust: Atmospheric aerosol in the Cape Verde region: carbon and soluble fractions of PM10
- XY74 EGU2012-13643
C. Pio, T. Nunes, **J. Cardoso**, A. Caseiro, M. Cerqueira, D. Custodio, M. C. Freitas, and S. M. Almeida
Size distribution of PM at Cape Verde - Santiago Island
- XY75 EGU2012-10381
F. Guarnieri, F. Calastrini, C. Busillo, and M. Pasqui
An analysis of Saharan desert dust over Mediterranean Basin
- XY76 EGU2012-6461
H. V. Nguyen, R. Yokota, G. Stenchikov, and G. Kocurek
A parallel direct numerical simulation of dust particles in a turbulent flow
- XY77 EGU2012-5443
C. Tsamalis and A. Chédin
Vertical distribution of the Saharan Air Layer from 5 years of CALIPSO observations
- XY78 EGU2012-3073
L. Klüser, D. Martynenko, and T. Holzer-Popp
Towards the ability to retrieve dust mineral composition from space
- XY79 EGU2012-4565
K. Schepanski, I. Tegen, and A. Macke
Satellite based Observations of Saharan Dust Source Areas - Comparison and Variability
- XY80 EGU2012-3762
P. Knippertz, J. H. Marsham, K. Schepanski, B. Heinold, S. Cowie, S. Fiedler, and A. J. Roberts
The Desert Storms Project - Towards an Improved Representation of Meteorological Processes in Models of Mineral Dust Emission
- XY81 EGU2012-9812
S. Cowie, P. Knippertz, and J. Marsham
Is a change in roughness length the cause of the recent decrease in Sahelian dust emission?
- XY82 EGU2012-4529
S. Fiedler, K. Schepanski, B. Heinold, P. Knippertz, and I. Tegen
A climatology of Nocturnal Low-level Jets over North-Africa and implications for simulating mineral dust emission
- XY83 EGU2012-8314
K. Schepanski and P. Knippertz
The Representation of Nocturnal Low-Level Jets in Meso-Scale Atmospheric Models and its Relevance for Dust Emission

- XY84 EGU2012-10533
B. Heinold, P. Knippertz, S. Cowie, S. Fiedler, and K. Schepanski
The Low-Level Jet Phenomenon in North-African Deserts: An Idealized Large Eddy Simulation Study
- XY85 EGU2012-5742
A. Roberts and P. Knippertz
The Formation and Behaviour of a large Saharan Haboob
- XY86 EGU2012-8306
C. Flamant, J.-P. Chaboureau, C. Kocha, C. Lavaysse, K. Schepanski, P. Chazette, O. Bock, B. Marticorena, P. Tulet, J. Pelon, F. Marnas, M. Mokhtari, J.-P. Lafore, R. Roehrig, A. Koulali Idrissi, C. Tsamalis, and A. Chedin
The French component of the FENNEC Saharan Climate project 2011 Special Observing Period
- XY87 EGU2012-7847
J.-P. Chaboureau, **C. Flamant**, C. C. Kocha, J.-P. Lafore, C. Lavaysse, F. Marnas, M. Mokhtari, J. Pelon, K. Schepanski, and P. Tulet
Verification of mesoscale dust forecasts over the Sahara during FENNEC 2011
- XY88 EGU2012-5252
P. Chazette, P. Royer, F. Marnas, C. Flamant, P. Doira, C. Grenier, and J. Sanak
N2-Raman lidar for dust aerosol survey over the southern Spain within the frame of FENNEC
- XY89 EGU2012-7951
F. Marnas, P. Chazette, C. Flamant, P. Royer, H. Sodemann, and Y. Derimian
Characterization of Saharan dust properties transported towards Europe in the frame of the FENNEC project: a case study
- XY90 EGU2012-10639
H. Sodemann, **M. Lai**, P. Knippertz, M. Bart, F. Marengo, J.B. McQuaid, P. Rosenberg, and C. Ryder
Validation of a Lagrangian dust transport model with data from the Fennec/LADUNEX field campaign
- XY91 EGU2012-4198
C. E. Birch, **J. H. Marsham**, D. J. Parker, and G. M. Devine
The effect of orography and surface albedo on stratification in the summertime Saharan boundary layer: Dynamics and implications for dust transport
- XY92 EGU2012-10185
C. Cavazos-Guerra, M.C. Todd, C. Allen, M. Bart, B. Brooks, S. Engelstaedter, L. Garcia-Carreras, M. Hobby, J.H. Marsham, J. McQuaid, D. Parker, A. Saci, and R. Washington
WRF sensitivity analysis of the diurnal cycle of Saharan planetary boundary layer
- XY93 EGU2012-9906
C. Cavazos-Guerra, M.C. Todd, J. Pelon, C. Flamant, C. Allen, R. Washington, S. Engelstaedter, J. Marsham, and D. Parker
Understanding the central west Saharan summertime dust hotspot: Identification and classification of active dust emissions and associated processes from Caliop analysis
- XY94 EGU2012-720
C.J.T. Allen, J.H. Marsham, S. Engelstaedter, and R. Washington
Atmospheric dust emission mechanisms at the summer global dust maximum: observations from Bordj Mokhtar, Algeria
- XY95 EGU2012-13105
S. Engelstaedter, R. Washington, C. Allen, C. Flamant, J.-P. Chaboureau, C. Kocha, and C. Lavaysse
Understanding the Role of the Saharan Heat Low in Modifying Atmospheric Dust Distributions - Observations From Two Research Aircraft Flying Simultaneously Over Western Africa
- XY96 EGU2012-2285
J. Brooke, M. Bart, J. Trembath, J.B. McQuaid, B.J. Brooks, and S. Osborne
Coarse mode aerosol measurement using a Low Turbulence Inlet
- XY97 EGU2012-13672
B. Weinzierl, D. Sauer, M. Esselborn, A. Petzold, A. Veira, M. Rose, S. Mund, M. Wirth, A. Ansmann, M. Tesche, S. Groß, and V. Freudenthaler
Aging of mineral dust during transport from the Sahara into the Cape Verde area - results from airborne measurements during SAMUM
- XY98 EGU2012-7665
C. Flamant, F. Abdi Vishkaee, J. Cuesta, H. Khalesifard, L. Oolman, and P. Flamant
Observation of dust emission and transport over Iraq and northwest Iran associated with winter Shamal
- XY99 EGU2012-13374
H. Ágústsson and H. Ólafsson
The 13 September 2011 storm of resuspended volcanic ash
- XY100 EGU2012-13713
S. Jónsson and H. Ólafsson
The Reykjavík storm of resuspended ash
- XY101 EGU2012-3511
Z. Svir?ev, S.B. Markovi?, T. Stevens, I.J. Smalley, U. Hambach, I. Obreht, T. Luki?, and Dj.A. Vasiljevi?
Importance of Biological Loess Crusts for Loess Formation in Semi-Arid Environments

- XY102 EGU2012-6147
M. Shahgedanova, S. Kutuzov, K. White, G. Nosenko, and M. Woodage
 Climatology of dust deposition events on Garabashi Glacier, Mt Elbrus, Caucasus, developed from snow pits using remote sensing, climate models and sedimentological analysis
- XY103 EGU2012-5677
J.E. Bullard, J.M. Prospero, and R. Hodgkins
 High latitude dust over the North Atlantic: inputs from Icelandic proglacial dust storms
- XY104 EGU2012-12041
J. Párraga, M. Sanchez-Maranon, J. Calero, R. Delgado, G. Delgado, J. Martín-García, J. Díaz, and V. Aranda
 Iberulites deposition on soils of Granada (South Spain)
- XY105 EGU2012-7491
G. Stauch, F. Lehmkuhl, A. Hilgers, and H. Zhao
 Holocene aeolian sediments on the NE Tibetan Plateau
- XY106 EGU2012-1293
B. Delmonte, P.S. Andersson, C. Baroni, B. Narcisi, J.R. Petit, M.C. Salvatore, S. Albani, and V. Maggi
 Holocene regional gradients of dust provenance and flux between Talos Dome and Dome C, East Antarctica.
- XY107 EGU2012-2030
D.-D. Rousseau, P Antoine, M Fuchs, C. Hatté, F. Lacroix, G Kukla, A. Sima, and M. Ghil
 Major dust events in Europe during the last interglacial s. I. period.
- XY108 EGU2012-10630
J.-B. Stuut, F. Temmesfeld, D. Hebbeln, and P. Dedecker
 Late Quaternary aridity changes in the winter-rain areas on the Southern Hemisphere: inferences from the marine sediment archive
- XY109 EGU2012-10291
C. Skonieczny, A. Bory, V. Bout-Roumazielles, F. Grousset, B. Malaizé, P. Martinez, I. Billy, E. Caron, L. Debeauvais, and J. Carrons
 A 1.2 Ma unique record of the aeolian terrigenous signal off West Africa

CL4.9/AS1.4 – Synoptic climatology – methods and applications (co-organized) – Orals

Convener: C. Beck | Co-Conveners: A. Philipp, J. Jacobeit

Room: 13

Chairperson: Andreas Philipp, Christoph Beck

- 10:30–10:45 EGU2012-11582
P. Bernardara, P. Brigode, J. Gailhard, F. Garavaglia, E. Paquet, and P. Ribstein
 Comparison of a new rainfall-based weather patterns classification with 76 COST733 weather type classifications over Austria
- 10:45–11:00 EGU2012-4754
S. Radanovics, J.-P. Vidal, E. Sauquet, A. Ben Daoud, and G. Bontron
 Optimising predictor domains for spatially coherent precipitation downscaling
- 11:00–11:15 EGU2012-3149
PM Sousa, R Trigo, MG Pereira, D Rasilla, and C. Gouveia
 Modelling wildfire activity in Iberia with different Atmospheric Circulation WTs
- 11:15–11:30 EGU2012-217
N. Cortesi, R. Trigo, J.C González-Hidalgo, and A. Ramos
 High resolution reconstruction of monthly autumn and winter precipitation of Iberian Peninsula for last 150 years.
- 11:30–11:45 EGU2012-4492
M. Hofstätter and B. Chimani
 Circulation Type Classifications and their nexus to Van Bebber's storm track Vb
- 11:45–12:00 EGU2012-3432
 A. Martínez, **A. Baquero-Bernal**, and C. Abril
 Weather regimes over Colombia, South America, during the JJA using Self-Organizing Maps

CL4.9/AS1.4 – Synoptic climatology – methods and applications (co-organized) – Posters

Convener: C. Beck | Co-Conveners: A. Philipp, J. Jacobeit

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Christoph Beck, Andreas Philipp

- XY229 EGU2012-12667
H. W. Rust, M. Vrac, M. Lengaigne, and B. Sultan
 Circulation patterns and their differences - A probabilistic point of view

- XY230 EGU2012-6259
G. Masato and D. Brayshaw
Clustered GWL types: methodology and applications
- XY231 EGU2012-172
C. Lennard
Changes in the synoptic drivers of extreme rainfall in South Africa
- XY232 EGU2012-4171
H. Baltaci, T. Kindap, A. Unal, and M. Karaca
Analysis of Synoptic Weather Types and Its Influence on Precipitation in the Marmara Region (NW Turkey)
- XY233 EGU2012-1632
P. Froidevaux, O. Martius, and R. Weingartner
Characterisation of flood events in Switzerland based on weather patterns
- XY234 EGU2012-7680
C. S. Photiadou, B. J. J. M. van den Hurk, A. H. Weerts, and A. J. van Delden
Dominant circulation patterns for the Rhine basin determined by a high-resolution precipitation data set.
- XY235 EGU2012-8029
P. Brigode, Z. Micovic, P. Bernardara, J. Gailhard, E. Paquet, F. Garavaglia, and P. Ribstein
Link between rainfall-based weather patterns classification over British-Columbia and El Niño Southern Oscillations
- XY236 EGU2012-978
J.M. Arraut and P. Satyamurty
The Argentinean Col, Separatrices, Frontogenesis and Strong Rainfall in Subtropical South America
- XY237 EGU2012-3342
V. Stefanescu, S. Stefan, and F. Georgescu
GWT18 air circulation types linked to heavy precipitation in Romania between 1980 and 2009
- XY238 EGU2012-13428
L. Durán, B. Rodriguez-Fonseca, E. Sánchez-Sánchez, and C. Yagüe
Weather types and precipitation at the Iberian Central System
- XY239 EGU2012-2144
E. Tyrlis and J. Lelieveld
Aspects of a climatology and dynamics of the summer Etesians
- XY240 EGU2012-14227
M Menendez, P Camus, FJ Mendez, and IJ Losada
A weather type method to study surface ocean variables
- XY241 EGU2012-3472
S. Andrei and **S. Stefan**
Climatologically aspects of Bucharest's UHI in connection with synoptic scale atmospheric circulation patterns
- XY242 EGU2012-12971
C. Weitnauer, **C. Beck**, and J. Jacobeit
Local PM10 concentrations in Augsburg (Germany) and their connection to large scale circulation types
- XY243 EGU2012-6822
S. Parsons, **A. J. McDonald**, and J. Renwick
Future Weather Patterns in New Zealand using Synoptic Climatology: Kidson Types and a Simple Synoptic Classification System
- XY244 EGU2012-9170
A. Belleflamme, X. Fettweis, and M. Erpicum
Are the CMIP5 GCMs able to simulate atmospheric blocking situations over Europe ?
- XY245 EGU2012-13539
J. A. Añel, S. Jewson, M. R. Allen, C. Mitas, and C. Rye
Comparison of wind simulations in HadRM3P and WRF with ERA-Interim
- XY246 EGU2012-5682
H. Ries, C. Moseley, and A. Haensler
REMO poor man's reanalysis

CL5.10 – Regional Climate Modeling, projections and impacts (including CORDEX) – Posters

Convener: F. Giorgi | Co-Conveners: R. Arritt, A. Zakey

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 10:30–12:00

Chairperson: Giorgi, Arritt, Zakey

- XY247 EGU2012-1397
D. Zhang, J. Winter, and E. Eltahir
Coupling of a Dynamic Biosphere Model and a Regional Climate Model

- XY248 EGU2012-1745
H. Ho, B. Rockel, H. Kapitza, and S. Valcke
A 2-way online coupled Regional Model for climate simulation over Baltic Sea and North Sea Regions
- XY249 EGU2012-1753
E. Plavcová and J. Kyselý
Biases in the diurnal temperature range in Central Europe in an ensemble of regional climate models and their possible causes
- XY250 EGU2012-1772
E. Plavcová and J. Kyselý
Atmospheric circulation in regional climate models over Central Europe: links to surface air temperature and the influence of driving data
- XY251 EGU2012-2551
M. Inatsu, T. J. Yamada, T. Sato, K. Nakamura, N. Matsuoka, A. Komatsu, Y. N. Pokhrel, S. Sugimoto, and S. Miyazaki
A new project on development and application of comprehensive downscaling methods over Hokkaido.
- XY252 EGU2012-4356
S. Kotlarski, D. Lüthi, and C. Schär
The dependence of 21st century European climate change on surface elevation - An RCM ensemble analysis
- XY253 EGU2012-4773
O. Gutjahr and G. Heinemann
Comparing bias correction methods for high-resolution COSMO-CLM daily precipitation fields
- XY254 EGU2012-4475
J.-H. Park, S.G. Oh, M.S. Suh, and H.S Kang
Impact of boundary conditions on RegCM4 20-year-long precipitation simulations over CORDEX-East Asia domain
- XY255 EGU2012-4096
P. Thejll, C. Fox Maule, and J. Hesselbjerg Christensen
When will climate scenario runs show a statistically significant change in drought indices?
- XY256 EGU2012-3948
H. G. Takahashi, M. Hara, T. Yoshikane, and M. Fujita
A discrepancy in precipitable water among the major reanalyses over tropics and its effect on downscaling
- XY257 EGU2012-5361
T. Tian, F. Boberg, O.B. Christensen, and J.H. Christensen
The importance of choosing interactive coupling on the atmosphere in the Baltic Sea region and in the North Sea-Baltic Sea transition
- XY258 EGU2012-5542
C. Gallardo, V.E. Gil, E. Hagel, C. Tejada, M. de Castro, **E. Sánchez**, and M.A. Gaertner
Assessment by the use of the Köppen-Trewartha classification of climate change in Europe throughout the 21st century from an ensemble of regional climate models.
- XY259 EGU2012-7194
M. S. Suh, **S. G. Oh**, D. K. Lee, D. H. Cha, S. J. Choi, S. Y. Hong, and H. S. Kang
Development of new ensemble methods based on the performance skills of regional climate models over South Korea
- XY260 EGU2012-6339
S. Mayer, S. Sobolowski, and S. Outten
Assessment of extreme precipitation over Northern Europe using WRF as a regional climate model within the RiskChange-project
- XY261 EGU2012-8017
R Nogherotto, AM Tompkins, F Giorgi, and E Coppola
The new microphysics cloud scheme implemented in RegCM4
- XY262 EGU2012-2968
E. M. Zubler, D. Lüthi, and C. Schär
Future of the hydrological cycle over Europe - Lessons learned from a surrogate climate change scenario
- XY263 EGU2012-11874
K. Goergen, K. Houchi, J. Junk, P. Sinigoj, L. Pfister, and L. Hoffmann
Extreme events in a WRF regional climate model validation run for EURO-CORDEX
- XY264 EGU2012-8902
A. Dell'Aquila, S. Calmanti, PM Ruti, MV Struglia, G. Pisacane, A Carillo, and G Sannino
Impacts of seasonal cycle fluctuations in an A1B scenario over the Euro-Mediterranean
- XY265 EGU2012-10750
A. Martynov, R. Laprise, L. Sushama, K. Winger, and B. Dugas
Reanalysis-driven climate simulation over CORDEX North America domain using the Canadian Regional Climate Model, version 5: model performance evaluation.
- XY266 EGU2012-6880
M. Hara, H. Kawase, X. Ma, Y. Wakazuki, M. Fujita, and F. Kimura
Future change in seasonal march of snow water equivalent due to global climate change

- XY267 EGU2012-2872
C. Menz and Guanting Project Team
Dynamical and statistical climate modelling in the CORDEX-easia domain
- XY268 EGU2012-9446
S. Shukla, **B. Livneh**, and D. Lettenmaier
The relative value of MRED winter seasonal forecasts vs. statistically downscaled CFS forecasts for seasonal hydrological forecasting
- XY269 EGU2012-8257
J.J. Attema and G. Lenderink
The influence of the North-Sea on coastal precipitation
- XY270 EGU2012-8334
F. Boberg and J. Christensen
Confidence in Lowered Southern Europe Temperature Projections due to Model Deficiencies
- XY271 EGU2012-8662
M. León, Y. González, J.P. Díaz, F.J. Expósito, J.C. Pérez, and A. González
Intercomparison of IPCC AR4 models with ERA-40 and NCEP/NCAR reanalysis within the AFRICA-CORDEX domain
- XY272 EGU2012-10132
A. Rios-Entenza and G. Miguez-Macho
Spring precipitation in inland Iberia: land-atmosphere interactions and recycling and amplification processes.
- XY273 EGU2012-13758
HF Campos Velho, SR Freitas, RP Souto, AS Charao, S Ferraz, DR Roberti, N Streck, PO Navaux, N Maillard, W Collischonn, G Diniz, and B Radin
Mesoscale Climate Evaluation Using Grid Computing
- XY274 EGU2012-13538
T. Halenka and M. Belda
RegCM3 vs. RegCM4 comparison for CORDEX in Africa and Europe
- XY275 EGU2012-11507
P. Nolan and P. Lynch
Simulating Climate Change in Ireland
- XY276 EGU2012-11221
S. Wagner, P. Berg, G. Schaedler, and H. Kunstmann
High resolution RCM simulations for Germany: validation and projected climate changes
- XY277 EGU2012-13472
B. Grassi, G. Redaelli, and G. Visconti
Extreme climate events in the Mediterranean region during winter due to arctic sea-ice reduction
- XY278 EGU2012-10226
N. Salzmann, H. Machguth, and A. Linsbauer
The Swiss Alpine Glacier's Response to the '2 °C air temperature target'
- XY279 EGU2012-8744
D. Taima-Hernández, A. Enríquez, J.C. Pérez, J.P. Díaz, A. González, and F.J. Expósito
Regional climate simulations over Africa using WRF Model: Sensitivity to the dynamical downscaling methods.
- XY280 EGU2012-8800
A. Enríquez, **D. Taima-Hernández**, A. González, J.C. Pérez, J.P. Díaz, and F.J. Expósito
Comparative analysis of cloud cover databases for CORDEX-AFRICA
- XY281 EGU2012-13445
E. Sanchez, P. Zaninelli, A. Carril, C. Menendez, and M. Dominguez
Analysis of extreme climatic features over South America from CLARIS-LPB ensemble of regional climate models for future conditions
- XY282 EGU2012-8949
M. Chiacchio, F. Solmon, F. Giorgi, and P. Stackhouse
Evaluating the global energy budget with a regional climate model over Europe
- XY283 EGU2012-6386
M. Llopart and R.P. da Rocha
CLM Coupled in the RegCM4.1 Model: Sensitivity to the Cumulus Convective Schemes over the Amazon Rainforest
- XY284 EGU2012-10807
M. A. Gaertner, **E. Sánchez**, M. Domínguez, V. Gil, R. Romera, and C. Gallardo
Analysis of the risk of tropical cyclones over the Mediterranean Sea with ENSEMBLES climate change scenarios
- XY285 EGU2012-10912
N. Lopez de la Franca and **E. Sanchez**
Changes in the length of the seasons over the Iberian Peninsula for future conditions from ENSEMBLES regional climate models ensemble

- XY286 EGU2012-8564
C. Fox Maule and P. Thejll
Changes in the percentage of area under drought in Europe during this century
- XY287 EGU2012-8681
A. Schindler, D. Maraun, and J. Luterbacher
Validation of the annual cycle of extreme precipitation events across the UK in 14 regional climate models
- XY288 EGU2012-11277
P.A. Mooney, F.J. Mulligan, and R. Fealy
Developing next generation high resolution DEcadal and Long Term climate projections for IreAnd (DELTA)
- XY289 EGU2012-10490
t. zeleke, F. Giorgi, G. Mengistu, and G.T. Diro
Trend and frequency of drought over Ethiopia using observational and RegCM4 driven indices
- XY290 EGU2012-8825
C. Klein, P. Hoffmann, and **E. Priesack**
Modelling soil-plant-atmosphere interactions by coupling the regional weather model WRF to mechanistic plant models
- XY291 EGU2012-10962
R.P. da Rocha, M.S. Reboita, and S.V. Cuadra
Characterization of wet and dry spells simulated by RegCM4 over the South America
- XY292 EGU2012-12583
J. Bartholy, R. Pongracz, E. Miklos, and A. Kis
Comparison of 21st century regional climate projections for the Carpathian Basin using ENSEMBLES outputs
- XY293 EGU2012-1833
I.K. Tsanis, M.G. Grillakis, and J. Polcher
Assessing the climate change impact on the hydrology of Spencer Creek watershed based on RCMs and an interpolated GCM
- XY294 EGU2012-4116
F. Al Zawad
Regional climate projections for Saudi Arabia
- XY295 EGU2012-6026
M. Stéfanon
Contribution of soil moisture in summer heat waves amplitude in MED-CORDEX simulations
- XY296 EGU2012-6373
G. Stenchikov and M. Dogar
Regional Climate Response to Volcanic Radiative Forcing in Middle East and North Africa
- XY297 EGU2012-6931
I. Güttler
Systematic errors in regional climate model RegCM over Europe and sensitivity to variations in PBL parameterizations
- XY298 EGU2012-7252
M. S. Suh, S. G. Oh, D. H. Cha, and H. S. Kang
Regional climate projection based on RCP scenarios in the CORDEX East Asia Domain Using RegCM4
- XY299 EGU2012-13594
J.P. Montavez, J.J. Gomez-Navarro, S. Jerez, R. Baro, R. Lorente, J.A. Garcia-Valero, and P. Jimenez-Guerrero
Evaluation of Regional climate models: how much can we trust in gridded observational data sets?
- XY300 EGU2012-11039
P.M.M Soares, R.M. Cardoso, P.M.A. Miranda, P. Viterbo, and M. Belo-Pereira
Precipitation variability and extremes in ENSEMBLES RCM simulations over Portugal
- XY301 EGU2012-8927
N. Nattoo, A. Paul, M. Hadfield, S. Jendersie, J. Bornman, W. de Lange, W. Ye, and M. Schulz
A regional ocean model for the Southwest Pacific Ocean region to assess the risk of storms
- XY302 EGU2012-7503
S. K. Dash, **A. Mamgain**, K. C. Pattnayak, and F. Giorgi
Variations in temperature and precipitation during Indian summer monsoon simulated by RegCM3
- XY303 EGU2012-8440
N. Elguindi, S. Rauscher, and F. Giorgi
Historical and future changes in maximum and minimum temperature records over Europe
- XY304 EGU2012-8565
L. Srnec, I. Güttler, ?. Brankovi?, and M. Patar?i?
The impact of horizontal resolution in RegCM4 simulations on extreme temperature parameters
- XY305 EGU2012-10121
J. Boé
Soil-atmosphere interactions, cloud feedback and land-sea contrast: their interactions and role in the uncertainties of regional climate projections over Europe.

- XY306 EGU2012-11578
R. Bojariu, L. Velea, M. Birsan, S. I. Dascalu, and R. Cica
 Impact of land-use type on present climate over Romanian territory using RegCM
- XY307 EGU2012-13296
G. Fipps, G. Bonaiti, and C. Swanson
 Climate and ET: Does Plant Water Requirements Increase during Droughts?
- XY308 EGU2012-12266
I. Yiannikopoulou, K. Philippopoulos, and D. Deligiorgi
 A hybrid downscaling procedure for estimating the vertical distribution of ambient temperature in local scale
- XY309 EGU2012-10537
G. Nikulin, C. Jones, and E. Kjellström
 Projected changes in the West African Monsoon from an ensemble of Africa-CORDEX simulations

CL5.13 – Climate Services - Underpinning Science – Orals

Convener: A. Dell'Aquila | Co-Conveners: R. van Oss, P. M. Ruti

Room: 13

Chairperson: P. M. Ruti

- 13:30–13:45 EGU2012-14214
F Lùcio
 Global Framework for Climate Services (GFCS)
- 13:45–14:00 EGU2012-2588
S. Rösner
 The WMO RA VI Regional Climate Centre Network - a support to users in Europe
- 14:00–14:15 EGU2012-9751
C.D. Hewitt and C. Buontempo
 Climate services at the international level
- 14:15–14:30 EGU2012-6780
S. Zebiak, G. Brasseur, and Members of the CSP Coordinating Group
 The Climate Services Partnership (CSP): Working Together to Improve Climate Services Worldwide
- 14:30–14:45 EGU2012-6658
G. Anderson
 Climate Services for Development Planning and Implementation: A Framework for Assessing and Valuing Climate Services
- 14:45–15:00 EGU2012-7284
D Jacob, L Kotova, and IMPACT2C Team
 IMPACT2C: Quantifying projected impacts under 2°C warming
- Chairperson: R. van Oss
- 15:30–15:45 EGU2012-4797
G. Brasseur, R. Braun, D. Jacob, M. Schaller, and R. Schwarze
 The German Climate Service Center: Philosophy, First Achievements and Lessons Learnt
- 15:45–16:00 EGU2012-1118
C.M. Goodess and the CLIM-RUN Climate Expert (CET) and Stakeholder Expert (SET) Team
 Facilitating a stakeholder-led approach to the development of Mediterranean climate services: co-ordinating the CLIM-RUN case studies
- 16:00–16:15 EGU2012-12515
C. Dubois and the CLIM-RUN Team
 CLIM-RUN: Tourism case study over the French Alps
- 16:15–16:30 EGU2012-14318
A Feijt
 Towards new Climate Scenarios for The Netherlands; connecting science and society
- 16:30–16:45 EGU2012-3308
S. Sobolowski, M. Mesquita, and K. Keay
 Projected Changes in Northern Europe Storm and Precipitation Characteristics: Uncertainty and the Implications for Climate Services
- 16:45–17:00 EGU2012-4335
S. Parey, G. Galloy, and M. Nogaj
 An example of model result correction to study the impact of climate change on electricity consumption

CL5.13 – Climate Services - Underpinning Science – Posters

Convener: A. Dell'Aquila | Co-Conveners: R. van Oss, P. M. Ruti

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: A. Dell'Aquila

- XY310 EGU2012-2076
Cs. Matyas, I. Berki, A. Drüzler, A. Eredics, B. Galos, N. Moricz, and E. Rasztovits
Service Center for Climate Change Adaptation in Agriculture - an initiative of the University of West Hungary
- XY311 EGU2012-5149
M. Per?ec Tadi?, K. Cindi?, M. Gaji?-?apka, and K. Zaninovi?
Spatial differences in drought vulnerability
- XY312 EGU2012-8154
P. Yiou and R. Vautard
Extreme Events and Energy Providers: Science and Innovation
- XY313 EGU2012-12735
M. De Felice, A. Alessandri, and P.M. Ruti
Energy demand forecasting by means of Statistical Modelling: Assessing Benefits of Climate Information
- XY314 EGU2012-12490
F. Kaspar, E. Penda, G. Müller-Westermeier, K. Zimmermann, and H. Mächel
Monitoring of Climate Change in Germany - Data, products and services of Germany's National Climate Data Centre
- XY315 EGU2012-13309
C. Giannakopoulos, A. Roussos, A. Karali, M. Hatzaki, G. Xanthopoulos, E. Chatzinikos, N. Fyllas, N. Georgiades, G. Karetsos, G. Maheras, I. Nikolaou, N. Proutsos, T. Sbarounis, K. Tsaggari, I. Tzamtzis, and C. Goodess
Climate change impacts on forest fires: the stakeholders' perspective
- XY316 EGU2012-10138
S. Torresan, V. Gallina, V. Giannini, J. Rizzi, A. Zabeo, A. Critto, and A. Marcomini
DESYCO: a Decision Support System to provide climate services for coastal stakeholders dealing with climate change impacts.
- XY317 EGU2012-11047
J. Ferreira, A. Rocha, J. M. Castanheira, and A. C. Carvalho
Dynamical downscaling inter-comparison for high resolution climate reconstruction
- XY318 EGU2012-11068
M. Kolasinski, H. Loukos, and P.A. Michelangeli
Territorial Climate Profiles: a methodological approach to provide local climate information for climate change adaptation
- XY319 EGU2012-5898
R. Schwarze, A. Navarra, **D. Jacob**, and G. Brasseur
Developing Climate Services in Europe: The Challenges Ahead
- XY320 EGU2012-7640
A. Fischer, C. Appenzeller, I. Bey, T. Bosshard, T. Corti, M. Croci-Maspoli, E. M. Fischer, J. Fuhrer, R. Knutti, S. Kotlarski, A. Kress, C. Kull, M. A. Liniger, A. Lustenberger, C. Schär, S. C. Scherrer, and A. P. Weigel
Swiss Climate Change Scenarios: The CH2011 Initiative
- XY321 EGU2012-9483
P. Kutschera, J. Olsson, D. Havlik, and G. Gruber
Future IDF curves for regional planning in Europe
- XY322 EGU2012-10534
S. Calmanti, J. Syroka, C. Jones, F. Carfagna, A. Dell'Aquila, P. Hoefsloot, S. Kaffaf, and G. Nikulin
Model based climate information on drought risk in Africa
- XY323 EGU2012-7988
C. Huggel and the AndesPlus project Team
Developing services for climate impact and adaptation baseline information and methodologies for the Andes
- XY324 EGU2012-80
Y. Kuleshov, M. Grandbois, and S. Kaniaha
An Interface between Law and Science: The Climate Change Regime
- XY325 EGU2012-2511
J. O'Brien
Climate services as practised in the southeast USA
- XY326 EGU2012-13782
T. Brown and D. Todey
Regional and State Climate Services in the United States
- XY327 EGU2012-2811
A. Valved, I. Barstad, and S. Sobolowski
Towards improving the reliability of future regional climate projections: A bias-correction method applied to precipitation over the west coast of Norway

- XY328 EGU2012-5855
M. Sima, **D. Micu**, C. Dragota, V. Chendes, M. Micu, and D. Balteanu
Scientific services related to climate-induced natural hazards in the Vrancea Seismic Region, Romania
- XY329 EGU2012-4180
B. Weber
A step towards realizing a pan-European Climate Service - Activities of the Climate Service Center in the ECLISE project
- XY330 EGU2012-1221
M.T.H. van Vliet, J.R. Yearsley, F. Ludwig, S. Vögele, D.P. Lettenmaier, and P. Kabat
Climate Services for Thermoelectric Power in Europe and the U.S.
- XY331 EGU2012-13542
S.F. Kew, F.M. Selten, and G. Lenderink
The joint threat of storm surges and high discharge for the Netherlands

BG6.3/CL5.14/SSP5.4 – Micropaleontology: a key to modern and ancient environments (co-organized) – Orals

Convener: K. Koho | Co-Conveners: F. Jorissen, A. Sluijs, C. Fontanier

Room: 23

Chairperson: n.n.

- 15:30–15:45 EGU2012-1663
M. Mojtahid, H. Howa, J. Garcia, F. Jorissen, E. Michel, M. Cremer, F. Eynaud, H. Gillet, and S. Terrien
High resolution Holocene record in the southeastern Bay of Biscay: use of benthic and planktic foraminifera as paleoenvironmental proxies
- 15:45–16:00 EGU2012-7732
K. Müller-Navarra, A. Lochte, and G. Schmiedl
Benthic foraminiferal response to trophic changes across the last glacial-Holocene transition in the abyssal eastern Mediterranean Sea
- 16:00–16:15 EGU2012-3326
O. Romero and X. Crosta
Millennial-scale variability of diatom paleoproductivity during the last 50 ka: an equator-to-subtropics comparison along western Africa
- 16:15–16:30 EGU2012-2729
P.K. Bijl, A.J.P. Houben, F. Sangiorgi, A.P.J. Ebbing, J. Pross, A. Sluijs, and H. Brinkhuis
Eocene-Miocene dinoflagellate cyst assemblages from the Wilkes Land margin, Antarctica (IODP Leg 318): tracing greenhouse and icehouse dynamics of the Southern Ocean
- 16:30–16:45 EGU2012-12055
C. Joachim and J. Mutterlose
Assemblage level and intraspecific response of calcareous nannofossils during early Eocene hyperthermal events.
- 16:45–17:00 EGU2012-749
A. Bercovici, V. Vajda, T. R. Lyson, S. G. B. Chester, E. J. Sargis, D. A. Pearson, and W. G. Joyce
Terrestrial ecosystem collapse associated to the K-Pg boundary and dinosaur extinction: palynological evidences

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

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

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Roberto Deidda

- A104 EGU2012-1147
G. Naumann, P. Barbosa, H. Carrao, A. Singleton, and J. Vogt
Monitoring drought conditions and their uncertainties in areas with sparse precipitation data. Evaluation of different precipitation datasets in Africa.
- A105 EGU2012-2934
R.A.I. Wilcke, T.M. Mendlik, and A.G. Gobiet
Physical Consistency of Multi-Parameter Error-Correction and Downscaling of Regional Climate Models
- A106 EGU2012-3421
M. Siam, M. Nour, and A. Wagdy
A Comparison of Statistical Downscaling Approaches to study the Impacts of Climate Change on the Hydrological Cycle of Upper Blue Nile basin

- A107 EGU2012-3465
R. Remesan and T. Bellerby
Sensitivity and dependence of mesoscale downscaled prediction results on different parameterizations of convection and cloud microphysics
- A108 EGU2012-3680
H. Sharif, C Furl, and M Al-Zahrani
Rainfall Climatology over Asir Region, Saudi Arabia
- A109 EGU2012-3922
J. B. Gilmore, J. P. Evans, and S. C. Sherwood
The influence of physics parameterizations on precipitation extremes in the Newcastle east coast low of 2007
- A110 EGU2012-4010
E. Maeda, J. Arevalo, and C. Carmona-Moreno
Effects of time-series length and gauge network density on rainfall climatology estimates in Latin America
- A111 EGU2012-4231
C. Nyunt, H. Yamamoto, A. Yamamoto, T. Nemoto, M. Kitsuregawa, L. Wang, and T. Koike
Bias correction and Downscaling of GCM for basin scale simulation
- A112 EGU2012-4665
E. Mair, G. Bertoldi, S. Della Chiesa, G. Niedrist, L. Egarter Vigl, and U. Tappeiner
An approach to improve precipitation estimation to model the water budget in Alpine catchments
- A113 EGU2012-5087
L. Dobor, Z. Barcza, Á. Havasi, and N. Fodor
Preparation of high resolution climate scenarios for agricultural impact analysis in Hungary
- A114 EGU2012-5859
C. Dobler
Downscaling precipitation extremes in a complex Alpine catchment
- A115 EGU2012-6448
S. Thober, L. Samaniego, and R. Kumar
Evaluation of Regional Climate Models: Extremes important for Hydrological Projections
- A116 EGU2012-6891
N. Ohara, M.L. Kavvas, S. Kure, Z.Q. Chen, and S. Jang
Model-based Estimation of Maximum Precipitation for the 1997 Storm Event Over American River Watershed, California, USA
- A117 EGU2012-7420
S.D. Blazkova, K.J. Beven, and M. Martinkova
Hazard and vulnerability to climate change of the Skalka dam in Czech Republic
- A118 EGU2012-7612
R. Deidda, G. Mascaro, M. Hellies, L. Baldini, and S. Sebastianelli
A systematic analysis of precipitation retrieved by a Polarimetric Doppler ground radar in Central Italy
- A119 EGU2012-7755
A. Langousis and V. Kaleris
A statistical approach to resolve incompatibilities between measured runoff data and daily estimates of spatially averaged rainfall
- A120 EGU2012-8266
Q. Zhang, H. Körnich, and K. Holmgren
How well do reanalyses represent the southern African precipitation?
- A121 EGU2012-8952
I. Anders and K. Haslinger
Varying trends in precipitation and temperature at different elevations in the European Alps? - A regional climate modelling perspective with COSMO-CLM
- A122 EGU2012-9087
R. Sasse, G. Schädler, H. Feldmann, and Ch. Kottmeier
Generation of Regional Climate Ensembles Using Atmospheric Forcing Shifting
- A123 EGU2012-9432
R. Haas, K. Born, A. Georgiadis, M. K. Karremann, and J. G. Pinto
Statistical Downscaling of Large-Scale Wind Signatures Using a Two-Step Approach
- A124 EGU2012-9736
H.L. Cloke, F. Pappenberger, T. Eckel, R. Buizza, and K. Bogner
The probabilistic Forecast Convergence Score (pFCS)
- A125 EGU2012-10021
P-E. Mellander, S.G. Gebrehiwot, A.I. Gärdenäs, W. Bewket, and K. Bishop
Summer Rains in the Upper Blue Nile Basin: half a century of past and future spatiotemporal patterns
- A126 EGU2012-10836
N. Salzmann, M. Rohrer, D. Acuna, P. Calanca, and C. Huggel
Assessment of future regional precipitation pattern for an Andes region in Southern Peru

- A127 EGU2012-11128
M. Piazza, J Boe, C Page, E. Sanchez-Gomez, and L Terray
21st century snowfall changes over the French Alps : the role of temperature
- A128 EGU2012-11725
M. Gosset and **R. Roca**
Propagation of Rainfall Products uncertainties in hydrological applications : Studies in the framework of the Megha-Tropiques Satellite Mission
- A129 EGU2012-11754
D. D'Onofrio, V. Artale, S. Calmanti, J. von Hardenberg, E. Palazzi, and A. Provenzale
Stochastic rainfall downscaling of the PROTHEUS regional climate model
- A130 EGU2012-11831
M. Giorgio and R. Greco
Modelling of eternal and internal intermittence of rainfall data via a simple event based stochastic model
- A131 EGU2012-12028
L.G. Lanza, **M. Colli**, and P. La Barbera
On the influence of rain gauge performance on extreme events statistics: the case of weighing gauges
- A132 EGU2012-12045
M. Muerth, B. Gauvin St-Denis, R. Ludwig, and D. Chaumont
Analysis of the effects of correcting biases in RCM precipitation fields with the local intensity scaling method for a small alpine catchment
- A133 EGU2012-13381
S Samadi, C Wilson, H Moradkhani, and S Gummeneni
Uncertainty analysis of statistically downscaled temperature and precipitation regimes in a semi arid catchment
- A134 EGU2012-13397
E. Tan
An Investigation of Extreme Precipitation in Turkey
- A135 EGU2012-13458
M.A. Campo, **J.J. Lopez**, and J.P. Rebole
Rainfall Stochastic models
- A136 EGU2012-13562
J C Soto-Sandoval and A P Jacquin
Problems with the interpolation of precipitation amounts in mountainous catchments using traditional techniques
- A137 EGU2012-13611
A. Maire, C. Fouchier, P. Arnaud, and Y. Aubert
Assessment of the daily areal reduction factor of precipitations with distributed rainfall data: a means of improvement of a prediction method of extremes events in France.
- A138 EGU2012-14167
R. Deidda, G.N. Caroletti, V. Luccarini, M. Marrocu, M. Puliga, G. Pusceddu, and A. Speranza
An intercomparison and verification of outputs of several climate models on representative Mediterranean catchments

CR10.10 – Ice-sheet and climate interactions (co-listed) – Posters

Convener: P. Huybrechts | Co-Conveners: A. Ganopolski, T. Fichefet

Hall X/Y | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Thierry Fichefet

- XY389 EGU2012-9527
P. Cianfarra and M. Valt
Recent snow cover and temperature variability in the Italian Alps
- XY390 EGU2012-3988
H. Motoyama, K. Suzuki, T. Yamanouchi, and K. Kawamura
Spatial and temporal variability of snow accumulation rate at East Antarctic ice sheet in 1993-2010
- XY391 EGU2012-13066
A. Rhines and P. Huybers
Feedbacks Between Sea Ice Cover and Precipitation Sources: Physical Basis for a Time-Dependent ?180-T Relationship
- XY392 EGU2012-4262
M. Bugelmayer, D.M. Roche, and H. Renssen
The impact of ice shelf - iceberg coupling on the North Atlantic Ocean in a global climate model of intermediate complexity

- XY393 EGU2012-5708
R. Calov, A. Robinson, and A. Ganopolski
Improved representation of ice discharge from the Greenland ice sheet into the surrounding ocean
- XY394 EGU2012-7436
M. Z. Hakuba, D. Folini, M. Wild, and C. Schär
Impact of Greenland's topographic height on precipitation and snow accumulation
- XY395 EGU2012-8592
M. S. Madsen, S. H. Svendsen, S. Yang, G. Adalgeirsdottir, and R. Mottram
Assessing Surface Mass Balance Schemes relevant for coupling of the PISM ice sheet model for Greenland to climate models
- XY396 EGU2012-5044
P. Beghin, S. Charbit, C. Dumas, M. Kageyama, D.M. Roche, and C. Ritz
Impact of planetary waves on ice-sheet evolution throughout the last glacial - interglacial cycle
- XY397 EGU2012-11560
A.C. Fowler, R.E.M. Rickaby, and E.W. Wolff
An explanation of the 100 kyr ice age cycle using a simple box model
- XY398 EGU2012-315
F. Colleoni, S. Masina, A. Cherchi, J. Liakka, M. Jochum, B. Otto-Bliesner, N. Roseblum, C. Ritz, C. Dumas, W. Lipscomb, and I. Rutt
MIS 7 and MIS 5 glacial inception: investigating the asynchronous build-up of Laurentide and Eurasian ice sheets
- XY399 EGU2012-6277
F. Ziemen, C. Rodehacke, and U. Mikolajewicz
LGM ice sheets simulated with a complex fully coupled ice sheet - climate model
- XY400 EGU2012-7475
W.H.G Roberts, A.J. Payne, and P.J. Valdes
Simulations of Heinrich Events using a fully coupled full complexity icesheet/global climate model (Glimmer/FAMOUS)
- XY401 EGU2012-10148
C. Rodehacke, U Mikolajewicz, and M Vizcaino
Fully coupled ice sheet-earth system model: How does the Greenlandic ice sheet interact in a changing climate
- XY402 EGU2012-12194
O. Rybak, J. Fürst, and P. Huybrechts
Simulation of the dynamical history of the northwestern Greenland ice sheet with a nested model for interpretation of the NEEM ice core record

OS1.2 – The North Atlantic: natural variability and global change (co-listed) – Orals

Convener: M. Rhein | Co-Conveners: R.J. Greatbatch

Room: 12

Chairperson: Richard Greatbatch

- 08:30–08:45 EGU2012-1770
M. Rhein, D. Kieke, and R. Steinfeldt
The Circulation of Newly Formed Deep Water in the Atlantic
- 08:45–09:00 EGU2012-4891
C. Mertens, M. Rhein, and F. R. Karbe
Transport variability in the western subpolar North Atlantic at 47°N
- 09:00–09:15 EGU2012-3096
C. S. Meinen and S. L. Garzoli
Physical mechanisms involved in Deep Western Boundary Current variability at 26.5°N
- 09:15–09:30 EGU2012-4160
D. Kieke, M. Rhein, I. Yashayaev, and B. Klein
Spreading of Labrador Sea Water in the vicinity of the Mid-Atlantic Ridge in the central subpolar North Atlantic
- 09:30–09:45 EGU2012-4879
F. Richter, D. Sidorenko, and **J. Schroeter**
On estimating the circulation in the North Atlantic from altimetry and ARGO data
- 09:45–10:00 EGU2012-13143
M. G. Magaldi, **T. W. N. Haine**, and R. S. Pickart
On the nature and variability of the East Greenland Spill Jet

COFFEE BREAK

Chairperson: Monika Rhein

- 10:30–10:45 EGU2012-1544
M. Latif, J. Ba, R. Greatbatch, S. Gulev, N. Keenlyside, T. Martin, and W. Park
 Interannual, Decadal and Centennial Variability in the North Atlantic Sector
- 10:45–11:00 EGU2012-2398
A. A. Cimadoribus, M. den Toom, S. S. Drijfhout, and H. A. Dijkstra
 Sensitivity of the Atlantic Meridional Overturning Circulation to South Atlantic freshwater anomalies.
- 11:00–11:15 EGU2012-871
L. C. Allison, E. Hawkins, T. Woollings, and L. Jackson
 Mechanisms and impacts of decadal-scale fluctuation events in the Atlantic Meridional Overturning Circulation in unforced climate model simulations
- 11:15–11:30 EGU2012-5921
I. Medhaug, H.R. Langehaug, T. Eldevik, O.H. Otterå, T. Furevik, and M. Bentsen
 Mechanisms for decadal scale variability in the North Atlantic Ocean circulation in the Bergen Climate Model
- 11:30–11:45 EGU2012-7661
E. Frajka-Williams, S. A. Cunningham, T. Kanzow, W. E. Johns, C. Meinen, H. L. Bryden, M. O. Baringer, and G. D. McCarthy
 Dramatic Interannual Variability in the Atlantic Meridional Overturning Circulation (AMOC) at 26°N
- 11:45–12:00 EGU2012-4625
T. Kanzow, M. Lankhorst, E. Frajka-Williams, U. Send, S. A. Cunningham, R. Bingham, J. Karstensen, and C. W. Hughes
 Meridional coherence and divergence of the Atlantic Meridional Overturning Circulation (AMOC)

LUNCH BREAK

Chairperson: Dagmar Kieke

- 13:30–13:45 EGU2012-8268
S. Josey and J. Grist
 Exploring the surface forced variability of the North Atlantic circulation
- 13:45–14:00 EGU2012-1501
T. Woollings, J. M. Gregory, M. Reyers, J. G. Pinto, and D. J. Brayshaw
 Ocean-atmosphere interaction in the Atlantic storm track response to climate change
- 14:00–14:15 EGU2012-2212
N. Barrier, A.M Tréguier, and C. Cassou
 Impact of winter weather regimes on the North Atlantic oceanic circulation
- 14:15–14:30 EGU2012-1140
I. Manola and F. Selten
 Differences in the wave guide characteristics of the jet stream in positive and negative phases of the NAO
- 14:30–14:45 EGU2012-2194
W. P. Sijp, J. M. Gregory, R. Tailleux, and P. Spence
 The key role of the western boundary in linking the AMOC strength to the north-south pressure gradient.
- 14:45–15:00 EGU2012-5993
S. Elipot, E. Frajka-Williams, C. Hughes, S. Olhede, and M. Lankhorst
 Basin-wide response of the North Atlantic Meridional Overturning Circulation to wind stress forcing

Chairperson: Richard Greatbatch

- 15:30–15:45 EGU2012-2117
X. Zhai, H.L. Johnson, D.P. Marshall, and O.A. Saenko
 Significant sink of ocean eddy energy near western boundaries and its potential influence on the large scale ocean circulation
- 15:45–16:00 EGU2012-7086
M. Walter, C. Mertens, M. Dengler, and M. Rhein
 North Atlantic Current variability and associated mixing at the Mid-Atlantic Ridge
- 16:00–16:15 EGU2012-8752
S. Gregorio, T. Penduff, B. Barnier, J.-M. Molines, and J. Le Sommer
 Low-frequency variability of the Atlantic MOC in the eddying regime : the intrinsic component.
- 16:15–16:30 EGU2012-9248
M. Li, C. Mertens, M. Walter, and M. Rhein
 Spatial variation of diapycnal mixing from hydrographic surveys in the subpolar North Atlantic

- 16:30–16:45 EGU2012-2818
A. Marzocchi, J. J.-M. Hirschi, N. P. Holliday, S. A. Cunningham, S. Masina, and A. C. Coward
 Establishment of the North Atlantic subpolar circulation in an eddy-resolving ocean model
- 16:45–17:00 EGU2012-1714
A.V. Fedorov and F. Sevellec
 The leading, interdecadal mode of the Atlantic meridional overturning circulation in a hierarchy of ocean and coupled models

SSP4.4 – Late Cretaceous – Early Paleogene climate dynamics and time scales (co-listed) – Orals

Convener: S. J. Batenburg | Co-Conveners: M. Sprovieri, S. Voigt, A. S. Gale, T. Westerhold

Room: 41

Chairperson: n.n.

- 08:30–08:45 EGU2012-7870
I. Gilmour, D.W. Jolley, R.J. Daly, S.P. Kelley, and M.A. Gilmour
 A complete high resolution record of the Dan-C2 hyperthermal event in the lacustrine sediments of the Boltysh Impact crater
- 08:45–09:00 EGU2012-7434
M. Koch* and O. Friedrich
 Campanian-Maastrichtian intermediate- to deep-water changes in the high latitudes: benthic foraminiferal evidence
- 09:00–09:15 EGU2012-4150
 L. Penasa, **M. Franceschi**, and N. Preto
 Terrestrial laser scanning for high resolution cyclostratigraphy of chert in pelagic limestone series
- 09:15–09:30 EGU2012-2691
D. De Vleeschouwer, A. Montanari, and R. Coccioni
 An anchored astronomical time-scale for the Turonian reference sections in the Umbria-Marche Basin, Italy
- 09:30–09:45 EGU2012-1880
F. Hilgen, J. Ogg, M. Schmitz, R.P. Speijer, and N. Vandenberghe
 Age calibration of the Paleogene time scale in GTS2012
- 09:45–10:00 EGU2012-481
J. Laskar, A. Farrès, and M. Gastineau
 Stability of the long period terms in the La2011 astronomical solution.

Friday, 27 April

CL1.3 – Polar continental margins and fjords - glacial and climatic evolution in the Cenozoic – Orals

Convener: J. S. Laberg | Co-Conveners: Prof Dr Brinkhuis, A. Camerlenghi, C. Escutia, F. Florindo, M. Forwick, D. Harwood, C. Hass, B. O. Hjelstuen, K. Hogan, M. Rebesco

Room: 13

Chairperson: J.S. Laberg

- 10:30–10:45 EGU2012-12615
C. Escutia, H. Brinkhuis, R. Dunbar, A. Klaus and the Carlota Escutia Team
From the greenhouse to the icehouse in the Antarctic Wilkes Land margin: IODP Expedition 318
- 10:45–11:00 EGU2012-10748
D.J. Hill, A.M. Dolan, T. van de Flierdt, and C. Cook
Evolution and variability of the East Antarctic Ice Sheet during the Pliocene: Ice-rafted debris provenance and model results
- 11:00–11:15 EGU2012-13750
T. Naish, R. McKay, L. Carter, C. Riesselman, C. Sjunneskog, D. Winter, R. Dunbar, F. Sangiorgi, C. Warren, M. Pagani, V. Wilmott, R. Levy, R. Powell, and R. DeConto
Antarctic and Southern Ocean influences on Late Pliocene global cooling
- 11:15–11:30 EGU2012-12914
J. Huuse and M. Huuse
Pleistocene glaciation history of the Northern North Sea and Norwegian Channel documented by basin-scale 3D seismic analysis
- 11:30–11:45 EGU2012-8385
T.A. Rydningen, T.O. Vorren, J.S. Laberg, and V. Kolstad
The marine-based NW Fennoscandian Ice Sheet: glacial and deglacial dynamics as reconstructed from submarine landforms
- 11:45–12:00 EGU2012-209
D. Winkelmann, W. Jokat, L. Jensen, and H.-W. Schenke
Late Glacial Dynamics of the Greenland Ice Sheet on NE-Greenland

CL1.3 – Polar continental margins and fjords - glacial and climatic evolution in the Cenozoic – Posters

Convener: J. S. Laberg | Co-Conveners: Prof Dr Brinkhuis, A. Camerlenghi, C. Escutia, F. Florindo, M. Forwick, D. Harwood, C. Hass, B. O. Hjelstuen, K. Hogan, M. Rebesco

Hall Z | Display Time 08:00–17:00

Author in Attendance: 13:30–15:00

Chairperson: M. Forwick

- Z1 EGU2012-13340
K. A. Hogan, J. A. Dowdeswell, and C. Ó Cofaigh
Glacimarine sedimentary processes and depositional environments in Disko Bay, West Greenland
- Z2 EGU2012-208
D. Winkelmann, W. Jokat, L. Jensen, and H.-W. Schenke
Late and Post-Glacial Dynamics in Kong Oscar Fjord, NE-Greenland
- Z3 EGU2012-4755
C.S. Andresen, F. Straneo, M.H. Ribergaard, A. A. Bjoerk, T.J. Andersen, A. Kuijpers, N. Nørgaard-Pedersen, K.H. Kjaer, F. Schjøth, K. Weckström, and A.P. Ahlstrøm
Rapid response of Helheim Glacier, Greenland, to climate variability over the last century
- Z4 EGU2012-5082
J. S. Laberg, M. Forwick, and K. Husum
A re-evaluation of the late Pliocene - Pleistocene behavior of the Scoresby Sund sector of the Greenland Ice Sheet
- Z5 EGU2012-10893
A. Mueller-Michaelis and G. Uenzelmann-Neben
Seismic reflection data of the Eirik Drift: A first step to decipher the Neogene development of the Western Boundary Undercurrent (WBUC)
- Z6 EGU2012-3382
C. März, A. Stratmann, J. Matthiessen, S.W. Poulton, A.-K. Meinhardt, S. Eckert, B. Schnetger, C. Vogt, R. Stein, and H.-J. Brumsack
More than just "brown layers": Manganese enrichments in Quaternary Arctic Ocean sediments

- Z7 EGU2012-2384
J. Knies, S. Baranwal, K. Fabian, K. Grøsfjeld, K. Andreassen, K. Husum, R. Mattingsdal, C. Gaina, S. De Schepper, C. Vogt, and N. Andersen
 New insights into late Neogene glacial dynamics, tectonics, and hydrocarbon migrations in the Atlantic-Arctic gateway region.
- Z8 EGU2012-6595
S. Baranwal and J. Knies
 Quaternary record of carbonate preservation and paleoenvironmental changes from the Yermak Plateau (Hole 912A)
- Z9 EGU2012-5928
M. Forwick and T.O. Vorren
 Submarine landslides in Spitsbergen fjords
- Z10 EGU2012-8414
T.L. Rasmussen, M. Forwick, and A. Mackensen
 Reconstruction of inflow of Atlantic Water to Isfjorden, Svalbard during the Holocene: correlation to climate and seasonality
- Z11 EGU2012-13113
J. Huuse and M. Huuse
 3D Seismic geomorphology of ice stream imprints the Northern North Sea since 1.1 Ma
- Z12 EGU2012-10404
H.C. Hass, G. Kuhn, N. Wittenberg, and A. Wöfl
 Modern sedimentation in a rapidly warming fjord: Potter Cove, King George Island, Antarctica
- Z13 EGU2012-13578
J. Lindow, M. Castex, H. Wittmann-Oelze, J. Johnson, F. Lisker, K. Gohl, and C. Spiegel
 Holocene glacial retreat at the Walgreen Coast, West Antarctica
- Z14 EGU2012-8765
C. Ohneiser and G. S. Wilson
 Plio-Pleistocene evolution of the southern Victoria Land climate system as seen in New Harbor drill cores
- Z15 EGU2012-10500
S. L. Greenwood, R. Gyllencreutz, M. Jakobsson, and J. B. Anderson
 East and West Antarctic ice sheet roles in glaciation of the western Ross Sea continental margin
- Z16 EGU2012-3297
U. Salzmann, F. Sangiorgi, P.K. Bijl, J. Pross, S. Schouten, L. Tauxe, J. Bendle, H. Brinkhuis, C. Escutia, and IODP Expedition 318 Science Party
 Early to Middle Miocene vegetation and climate of Wilkes Land, Antarctica (IODP 318)
- Z17 EGU2012-8404
L. Tauxe
 Magnetostratigraphic calibration of the Early Eocene Climatic Optimum

SSP4.3/CL1.4 – Cenozoic greenhouse climates and carbon cycle dynamics (co-organized) – Orals

Convener: J. L. Toney | Co-Conveners: P. Bijl

Room: 41

Chairperson: Jaime Toney

- 08:30–08:45 EGU2012-11093
M. Huber
 Eocene Paleoclimate: Incredible or Uncredible? Model data syntheses raise questions.
- 08:45–09:00 EGU2012-4147
P. Köhler, R. S. W. van de Wal, B de Boer, L. J. Lourens, R. Bintanja, T. Bickert, and G. Lohmann
 A process-based understanding of the late Cenozoic carbon cycle
- 09:00–09:15 EGU2012-9053
 H.A. Abels, W.C. Clyde, P.D. Gingerich, **F.J. Hilgen**, H.C. Fricke, G.J. Bowen, and L.J. Lourens
 Terrestrial records of Eocene Thermal Maximum 2 (ETM2 / H1 / Elmo) and H2 in the Bighorn Basin (USA)
- 09:15–09:30 EGU2012-12774
S. Galeotti, R.M. DeConto, L. Lanci, M. Pagani, U. Rohl, T. Westerhold, and J.C. Zachos
 Early Eocene hyperthermals record orbitally controlled changes in high latitude climates
- 09:30–09:45 EGU2012-13861
S. Boulila, B. Galbrun, J. Laskar, and H. Pälike
 Correlation of very long-term variations in Cenozoic $\delta^{13}C$ record and eccentricity modulation cycles
- 09:45–10:00 EGU2012-10794
K. Littler, J. C. Zachos, A. Kersey, U. Röhl, and T. Westerhold
 A high-resolution benthic stable-isotope record for the South Atlantic: implications for orbital scale changes in Late Paleocene-Early Eocene climate and circulation

SSP4.3/CL1.4 – Cenozoic greenhouse climates and carbon cycle dynamics (co-organized) – Posters

Convener: J. L. Toney | Co-Conveners: P. Bijl

Hall A | Display Time 08:00–17:00

Author in Attendance: 15:30–17:00

Chairperson: Jaime Toney

- A356 EGU2012-3191
O. Mohamed and H. Egger
Palynological study around the Paleocene/Eocene (P/E) boundary in the Untersberg section (Salzburg, Austria)
- A357 EGU2012-3804
KF Kroeger and RH Funnell
Warm Eocene climate enhanced petroleum generation from Cretaceous source rocks - a potential climate feedback mechanism?
- A358 EGU2012-5051
I. Moebius, O. Friedrich, and K.M. Edgar
Changes of benthic foraminiferal assemblages across the Middle Eocene climatic optimum (MECO) in the North Atlantic (OPD Site 1051, Blake Plateau)
- A359 EGU2012-6061
G. Hoareau, N. Carry, D. Marquer, B. Vrielynck, D.J.J van Hinsbergen, F. Behar, and A.-V. Walter-Simonnet
Did India-Asia plate velocity increase and Neo-Tethys closure contribute to the Early Eocene Climatic Optimum?
- A360 EGU2012-6657
J.C. Silva-Tamayo, M. Ducea, A. Cardona, C. Montes, D. Rincon, A. Machado, A. Flores, A. Sial, A. Pardo, H. Niño, V. Ramirez, C. Jaramillo, P. Zapata, L. Barrios, S. Rosero, G. Bayona, and V. Zapata
Precise U-Pb dating of Cenozoic tropical reef carbonates: Linking the evolution of Cenozoic Caribbean reef carbonates to climatic and environmental changes.
- A361 EGU2012-7221
H. Khozyem, T. Adatte, G. Keller, J.E. Spangenberg, S. Bajpai, B. Samant, and S. Mathur
Mammal Dispersion linked to The Paleocene Eocene Thermal Maximum (PETM): New Insights from India.
- A362 EGU2012-8768
V. Lauretano, L.J. Lourens, J.C. Zachos, M. Polling, K. Littler, and A. Sluijs
Reconstruction of deep-sea temperatures across Early Eocene climate transition.
- A363 EGU2012-9213
N. Hamon, P. Sepulchre, Y. Donnadieu, and G. Ramstein
Subtropical forest expansion in the middle Miocene Europe: pCO₂, Antarctic ice volume and oceanic changes
- A364 EGU2012-11381
G. Ramstein, P. Hopcroft, B. Ringeval, and N. Hamon
Quantifying the methane atmospheric concentration during the warm and wet climate of the Middle Miocene Climatic Optimum (17-15 Ma)
- A365 EGU2012-13334
M. Ouberdous, A.-J. Henrot, M. Dury, T. Utescher, and L. Francois
Variational methods application for retrieving past climates and paleo vegetation maps
- A366 EGU2012-13572
V. Lefebvre, **Y. Donnadieu**, Y. Godd eris, and F. Fluteau
Unravelling the causes of the Cenozoic climatic evolution

CL2.2 – Seasons and phenology: Evidence from observations, reconstructions, measurements and models (co-sponsored by USA-NPN, PAGES & ILEAPS) – Orals

Convener: T. Rutishauser | Co-Conveners: A. Menzel, J. Weltzin, A. Donnelly, E. Koch

Room: 13

Chairperson: This Rutishauser, Elisabeth Koch

- 13:30–13:35 **Introduction**
- 13:35–13:50 EGU2012-3244
M. D. Schwartz
Long-term Assessment of Spring's Onset in North America
- 13:50–14:05 EGU2012-14229
E Kubin, J. Poikolainen, J. Karhu, and J. Terhivuo
Phenological observations since the Linnean time in Finland
- 14:05–14:20 EGU2012-7581
M. Mozný, V. Potop, L. Hajkova, D. Bares, M. Stalmacher, M. Trnka, L. Bartosova, and Z. Zalud
Long-term variations in phenological phases and growing season indexes in the Czech Republic

- 14:20–14:35 EGU2012-7964
H. N. Dalfes, H. Ülgen, U. Zeydanli, and A. T. Durak
Toward a phenology network in Turkey
- 14:35–14:50 EGU2012-1313
F. Orlandi, T. Bonofiglio, L. Ruga, B. Romano, and M. Fornaciari
Fifteen year phenological plant species and meteorological trends in central Italy
- 14:50–15:00 **Discussion**
Chairperson: Elisabeth Koch, This Rutishauser
- 15:30–15:45 EGU2012-3823
E. Wolkovich, B. Cook, and Forecasting Phenology Working Group
Warming experiments underpredict plant phenological responses to climate change
- 15:45–16:00 EGU2012-4443
M. Rebetez, V. Renaud, G. Von Arx, and M. Dobbertin
Impact of forest cover on increases in temperature under the canopy
- 16:00–16:15 EGU2012-9904
Y. Vitasse, G. Hoch, C. Randin, J.F. Scheepens, C. Kollas, A. Lenz, and C. Körner
Elevational adaptation and plasticity in bud burst and budset timing in seedlings of major temperate tree species in the Swiss Alps
- 16:15–16:30 EGU2012-2618
G. Wohlfahrt, A. Gobiet, A. Hammerle, A. Haslwanter, L. Hörtnagl, Ch. Irschick, and M. Themeßl
Off-season carbon dioxide exchange of a temperate mountain grassland in a warmer future climate
- 16:30–16:45 EGU2012-7398
H. Scheifinger, T. Schöngaßner, M. Zuvella-Aloise, and C. Matulla
Direct Attribution of the Anthropogenic climate signal to PHENological observations - DATAPHEN
- 16:45–17:00 EGU2012-551
A.-M. Luchian, O.-M. Machidon, D. Luchian, **N. Luchian**, and D. Machidon
Water and precipitation patterns in the North-East of Romania

CL2.2 – Seasons and phenology: Evidence from observations, reconstructions, measurements and models (co-sponsored by USA-NPN, PAGES & ILEAPS) – Posters

Convener: T. Rutishauser | Co-Conveners: A. Menzel, J. Weltzin, A. Donnelly, E. Koch

Hall Z | Display Time 08:00–17:00

Author in Attendance: 10:30–12:00

Chairperson: This Rutishauser, Elisabeth Koch

- Z18 EGU2012-1411
K. Kato, S. Sato, H Kato, R. Akagi, N. Sueishi, T. Mori, T. Nakakura, and I. Irie
A trial of cross-disciplinary classes at the university and the high school on the seasonal transition and the seasonal feeling from autumn to winter in East Asia (joint activity of meteorology with Japanese classical literature, music and art)
- Z19 EGU2012-8031
B. Škoparija, C. A. Skjøth, K. Alm Kübler, A. Dahl, P. Radiši?, J. Sommer, ?. Grewling, and **M. Smith**
The long distance transport (LDT) of Ambrosia pollen from the Pannonian Plain to Scandinavia
- Z20 EGU2012-2523
S. Fernández-Rodríguez, C. Ambelas Skjøth, R. Tormo-Molina, R. Brandao, E. Caeiro, I. Silva-Palacios, Á. Gonzalo-Garijo, and **M. Smith**
Identification of potential sources of airborne Olea pollen in the Southwest Iberian Peninsula
- Z21 EGU2012-2748
E. Vincze, M. Hunkár, and Z. Dunkel
Phenology of lilac (*Syringa vulgaris*) and elderberry (*Sambucus nigra*) as the indicator of spring warming
- Z22 EGU2012-2807
Y.S.H. Fu, M. Campioli, G. Deckmyn, and I. A. Janssens
Sequential chilling-forcing models predict budburst phenology best in deciduous trees: results from a climate warming experiment
- Z23 EGU2012-9274
A. Thomas, S. Corgne, O. Planchon, C. Bonnefoy, H. Quéno, and R. Lecerf
Phenological monitoring of vine using MODIS imagery in the vineyard of Saumur-Angers (Loire Valley area, France)
- Z24 EGU2012-5465
A. Caffarra, D. Molitor, I. Pertot, P Sinigoy, and J Junk
Developing a phenological model for grapevine to assess future frost risk in Luxembourg
- Z25 EGU2012-8279
E. Koch, W. Lipa, M. Ungersböck, and S. Zach-Hermann
PEP725 Pan European Phenological Database

- Z26 EGU2012-11201
B. Perrimond, S. Bigot, H. Quéno, T. Spielgelberger, and J. Baudry
Effects of climate change on phenology in two French LTER (Alps and Brittany) for the period 1998-2009
- Z27 EGU2012-11281
R. Lorenz, E.L. Davin, D.M. Lawrence, and S.I. Seneviratne
Phenology experiments in a regional climate model
- Z28 EGU2012-11795
P. Di Tommasi, S.M. Alfieri, A. Bonfante, A. Basile, F. De Lorenzi, and M. Menenti
Adaptation options to future climate of maize crop in Southern Italy examined using thermal sums
- Z29 EGU2012-12124
A. Lehoczky, B. Szabó, R. Pongrácz, and F. Szentkirályi
First flowering sensitivity analysis to climate on 19th century data: using phenophase as thermometer

HS7.4/AS4.17/CL2.10 – Climate, Hydrology and Water Infrastructure (co-organized) – Posters

Convener: D. Koutsoyiannis | Co-Conveners: T. Cohn, M. Mudelsee, H. Lins, J. L. M. P. de Lima, X. L. Wang, M. Naranjo, C. Tortajada, C. Arregoitia

Hall A | Display Time 08:00–17:00

Author in Attendance: 10:30–12:00

Chairperson: João de Lima, Harry F Lins, Cecilia Tortajada

- A191 EGU2012-5644
D. Long and M. Collins
Hydrological Response Under CO2 Forcing: A Process Based Assessment of CMIP5 models.
- A192 EGU2012-1015
R. Payano Almánzar
The Influence of Climate Change on the Hydraulic Heritage
- A193 EGU2012-1798
K. Haslinger, B. Chimani, and R. Böhm
200 years of liquid and solid precipitation in major river systems originating in the Greater Alpine Region
- A194 EGU2012-6485
I. Mares, C. Mares, A. Stanciu, and M. Mihailescu
On the changes in the precipitation in the middle and lower Danube basin under the NAO influence
- A195 EGU2012-4680
S. Giannoulis, **C. Ioannou**, E. Karantinos, L. Malatesta, G. Theodoropoulos, G. Tsekouras, A. Venediki, P. Dimitriadis, S.M. Papalexiou, and D. Koutsoyiannis
Long term properties of monthly atmospheric pressure fields
- A196 EGU2012-4037
E. Maeda and G. Naumann
Relationship between monthly temperature anomalies and drought frequency
- A197 EGU2012-7566
M. Biabanaki, S.S. Eslamian, J. Abedi-Koupai, J. Cañón, and G. Boni
The SPI index in west Iran associated to PDO signal
- A198 EGU2012-7758
V. Potop, C. Boronean?, P. Stepanek, P. Skalak, and M. Mozny
Projected changes in the evolution of drought assessed with the SPEI over the Czech Republic
- A199 EGU2012-9937
A. Bichet, M. Wild, D. Folini, and C. Schär
Causes for the late 19th century European floods, as simulated in ECHAM5-HAM
- A200 EGU2012-11089
J. Liebert, D. DÜthmann, P. Berg, H. Feldmann, J. Ihringer, H. Kunstmann, B. Merz, I. Ott, G. Schädler, and S. Wagner
Uncertainties in discharge projections in consequence of climate change
- A201 EGU2012-12181
Y. Markonis, P. Kossieris, A. Lykou, and D. Koutsoyiannis
Effects of Medieval Warm Period and Little Ice Age on the hydrology of Mediterranean region
- A202 EGU2012-14354
A.A. Carsteanu, I.A. Berdeja-Sotelo, and J.J. Castro
Hydrological aspects of climatic-scale variations in Mexico
- A203 EGU2012-2434
C. L. Liu and R.P. Allan
Precipitation changes from dynamic and thermodynamic processes
- A204 EGU2012-2436
M. Zahn and R.P. Allan
Past and future changes of the tropical atmospheric circulation and associated moisture transports

- A205 EGU2012-10300
M. Naranjo and C. Tortajada
Climate change and its impact on water infrastructure: the case of Alcala de Henares (Spain) and Mexico City (Mexico)
- A206 EGU2012-2079
L. Wang, P.H.A.J.M. Van Gelder, and J.K. Vrijling
A preliminary analysis of climate change effect on long-term risk-based design of flood defense
- A207 EGU2012-72
a. bilal
Rainfall water and climatic changes in Syria-remote sensing applications
- A208 EGU2012-14399
M. Siena, A. Guadagnini, **M. Riva**, and S.P. Neuman
A Theoretical Model of Extended Power-Law Scaling
- A209 EGU2012-9606
A. Christofides and D. Koutsoyiannis
A toy model of a climate system with multiyear temperature variability produced by constant radiation forcing
- A210 EGU2012-1556
T Leon Gross and JD Ruiz Sinoga
Social perception of droughts in the mass media (southern Spain)
- A211 EGU2012-5309
M. E. Topa, F. De Paola, M. Giugni, W. Kombe, and H. Touré
Probability density function (Pdf) of daily rainfall depths by means of superstatistics of hydro-climatic fluctuations for African test cities
- A212 EGU2012-9360
M. M. Kvalevag, B. H. Samset, and G. Myhre
Hydrological sensitivity and global temperature change to greenhouse gases and aerosols in CESM

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??
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. Papanthassiou
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

CL4.2/OS1.3 – Inter-Ocean Gateways: Past, Modern and Future Processes and Environments (co-organized) – Orals

Convener: K. Husum | Co-Conveners: R. F. Spielhagen, G. Lohmann, U. Schauer, L. Jonkers, M. Ziegler, G. Knorr

Room: 16

Chairperson: K. Husum, U. Schauer

- 08:30–08:45 EGU2012-6063
J. Müller, K. Werner, and R. Stein
 Holocene sea ice in the main Arctic gateway
- 08:45–09:00 EGU2012-7773
S. Aagaard-Sørensen, K. Husum, M. Hald, T. Marchitto, and F. Godtliessen
 Holocene Atlantic Water temperature reconstruction in the Nordic Seas based on foraminiferal Mg/Ca ratios

- 09:00–09:15 EGU2012-10679
M. Blaschek and H. Renssen
The Influence of Greenland melt water on the temporal and spatial response of the Holocene Thermal Maximum in the Nordic Seas: a modelling study
- 09:15–09:30 EGU2012-11593
L. de Steur, E. Hansen, C. Mauritzen, and A. Beszczynska-Moeller
Transport of the East Greenland Current in Fram Strait
- 09:30–09:45 EGU2012-3640
I. A. Dmitrenko, S. A. Kirillov, V. V. Ivanov, U. Shauer, Y. Aksenov, B. A. de Cuevas, I. V. Polyakov, M. Janout, M. Makhotin, and V. S. Lien
Atlantic Water inflow into the Arctic Ocean through the St. Anna Trough
- 09:45–10:00 EGU2012-13807
P. E. Isachsen and O. A. Nøst
The air-sea transformation and diapycnal overturning circulation within the Nordic Seas

COFFEE BREAK

Chairperson: G. Knorr, M. Ziegler

- 10:30–10:45 EGU2012-9810
T. W. N. Haine and K. Stewart
Arctic Freshwater Export: Prospects, Impacts, and Challenges
- 10:45–11:00 EGU2012-4543
V.S. Lien, F.V. Vikebø, and Ø. Skagseth
A mechanism for fluctuations between Atlantic inflow branches to the Arctic
- 11:00–11:15 EGU2012-7621
R Zahn and GATEWAYS project members
Saltwater transport through the Indian-Atlantic ocean gateway: Does it modulate the Atlantic MOC?
- 11:15–11:30 EGU2012-8978
M. Prange, V. Varma, and M. Schulz
Inter-ocean gateway flows during the present and last interglacial periods
- 11:30–11:45 EGU2012-7269
F. Lamy, H.W. Arz, R. Kilian, O. Baeza Urrea, M. Caniupan, C. Kissel, and C. Lange
Millennial-scale ocean current intensity changes off southernmost Chile and implications for Drake Passage throughflow
- 11:45–12:00 EGU2012-9842
I. N. McCave, S.C. Crowhurst, C.-D. Hillenbrand, and G. Kuhn
Constant flow speed of the ACC through Drake Passage between glacial maximum and Holocene.

CL4.2/OS1.3 – Inter-Ocean Gateways: Past, Modern and Future Processes and Environments (co-organized) – Posters

Convener: K. Husum | Co-Conveners: R. F. Spielhagen, G. Lohmann, U. Schauer, L. Jonkers, M. Ziegler, G. Knorr

Hall Z | Display Time 08:00–17:00

Author in Attendance: 13:30–15:00

Chairperson: K. Husum, L. Jonkers

- Z30 EGU2012-14476
S. Berben, K. Husum, and M. Hald
Sub-centennial Holocene fluctuations of surface water masses in the western Barents Sea
- Z31 EGU2012-2714
P. Cabedo Sanz, A. Navarro Rodriguez, S.T. Belt, T.A. Brown, J. Knies, K. Husum, J. Giraudeau, and J. Andrews
Calibration and application of the IP25 biomarker for Arctic sea ice reconstructions
- Z32 EGU2012-10651
F.J. Davies, H Goosse, and H Renssen
Simulating the natural variability of the freshwater budget of the Arctic ocean from the mid to late Holocene using LOVECLIM
- Z33 EGU2012-1993
C. Dylmer, J. Giraudeau, E. Frédérique, A. de Vernal, J. Knies, K. Husum, and S. Belt
Northward advection of Atlantic Water in Fram strait during the late Holocene: a view from mixed layer proxies
- Z34 EGU2012-6030
J.C. Faust, J. Knies, J. Giraudeau, and G. Milzer
Geochemical investigations of fjord surface sediments as basis for Holocene climate change studies in the Trondheimsfjord area

- Z35 EGU2012-7635
D.E. Groot, S. Aagaard Sørensen, K. Husum, and M. Hald
Holocene intermediate and bottom water mass reconstructions of the western Barents Sea
- Z36 EGU2012-2716
A. Navarro Rodriguez, P. Cabedo Sanz, S. Belt, T. Brown, J. Knies, K. Husum, and J. Giraudeau
Analysis of sea ice and phytoplankton biomarkers in marine sediments from the Nordic Seas - a calibration study
- Z37 EGU2012-2958
I. Maier, M. Felix, J. Knies, and U. Mann
Historic surface water productivity changes in the Barents Sea
- Z38 EGU2012-2887
G. Milzer, J. Giraudeau, J. Faust, J. Knies, S. Schmidt, and C. Rühlemann
Benthic Foraminiferal Stable Isotope and Dinocyst Assemblages in Sediments of the Trondheimfjord Area (Mid-Norway): Proxies for Regional Oceanographic and Climate Changes?
- Z39 EGU2012-2962
T. Pados and R. F. Spielhagen
Modern distribution of planktic foraminifers in the Fram Strait (Arctic Ocean) compared to sea floor species assemblages
- Z40 EGU2012-5112
B. Sternal, W. Szczuciński, M. Forwick, M. Zajczkowski, S. Lorenc, and T.O. Vorren
Sedimentary record of postglacial variability in near-bottom currents, sediment supply and ice rafting on the continental shelf off SW Spitsbergen
- Z41 EGU2012-2370
M. M. Telesiński and R. F. Spielhagen
Late Glacial and Holocene paleoceanography of the central and northern Greenland Sea based on foraminifera, stable isotopes and sediments
- Z42 EGU2012-4750
K. Werner, R.F. Spielhagen, E. Kandiano, and H.C. Hass
Stepwise transition from deglacial/Early Holocene to modern-like conditions in the eastern Fram Strait, sub-Arctic north, inferred from planktic foraminifer fauna and sea surface temperatures
- Z43 EGU2012-11739
K. Werner, M. Frank, C. Teschner, M. Zieringer, and R.F. Spielhagen
Holocene fluctuations of neodymium isotope ratios in eastern Fram Strait sediments - An indication for deepwater variability?
- Z44 EGU2012-5410
G. Chepurin and J. Carton
Sub-arctic and Arctic sea surface temperature and its relation to ocean heat content 1982-2010
- Z45 EGU2012-7017
F. Greil and A. Beszczynska-Möller
Statistical analysis of oceanographic fields in Fram Strait
- Z46 EGU2012-7881
B. I. Moat, S. A. Josey, B. Sinha, and J. P. Grist
Response of the Fram Strait transport to surface density forcing
- Z47 EGU2012-2617
S.N. Moshonkin, **A.V. Gusev**, V.B. Zalesny, A.V. Bagno, and N.A. Diansky
Numerical modelling of the Atlantic Water inflow in Arctic Ocean and Beaufort Gyre fresh water content climatic variability
- Z48 EGU2012-5369
C. Roth, E. Behrens, and A. Biastoch
The impact of the Atlantic-Arctic exchange on rising ocean bottom temperatures and the fate of gas hydrates
- Z49 EGU2012-1859
U. Schauer, A. Beszczynska-Möller, T. Krumpfen, F. Greil, and E. Fahrbach
Warming of the Atlantic water in Fram Strait and its impact on the ice cover
- Z50 EGU2012-2816
F. Wobus, G.I. Shapiro, J.M. Huthnance, and M.A.M. Maqueda
The piercing of the Atlantic Layer by a dense water cascade in an idealised modelling study inspired by the Storfjorden overflow
- Z51 EGU2012-8931
M. Ártun, T. Eldevik, L. H. Smedsrud, Ø. Skagseth, and R. B. Ingvaldsen
Quantifying the influence of Atlantic heat on Barents Sea ice variability and retreat
- Z52 EGU2012-3974
N. Barrier, D. Ferreira, and J. Marshall
Impact of opening of the Central America Seaway on climate in a coupled atmosphere-ocean-sea-ice model

- Z53 EGU2012-11354
K. Braun, M. Bar-Matthews, A. Ayalon, C. Marean, A. I. R. Herries, R. Zahn, and A. Matthews
Influences of the Agulhas Current on South African terrestrial climate as inferred from speleothem stable isotope records
- Z54 EGU2012-5484
C. Brierley and A. Fedorov
Can inter-ocean gateways explain long-term cooling since the early Pliocene?
- Z55 EGU2012-5756
E. Khadun, J.v.d. Lubbe, T. Blanz, and R. Schneider
80 kyr record of palaeoceanographic conditions from southeastern Africa
- Z56 EGU2012-8815
G. Marino, R. Zahn, P. Ziveri, M. Ziegler, I.R. Hall, and H. Elderfield
Impact of the salt leakage through the Indian-Atlantic ocean gateway on the Atlantic MOC
- Z57 EGU2012-10456
M. Parari and R. Zahn
Do variations in Mozambique Channel hydrography impact the marine climatology of the Agulhas gateway between the Indian Ocean and Atlantic?
- Z58 EGU2012-4522
C. Purcell, G. Knorr, I. Hall, and G. Lohmann
The influence of Agulhas Leakage dynamics on the Atlantic Meridional Overturning Circulation during glacial-interglacial transitions
- Z59 EGU2012-3276
T. Qu and T.-L. Chiang
Northward intrusion of South Pacific intermediate water along the Philippine coast as seen from a global GCM
- Z60 EGU2012-8133
P. Scussolini and F.J.C. Peeters
Evolution of the southeast Atlantic thermocline during Marine Isotopic Stages 6-5: is it related to variations in the Agulhas Leakage?
- Z61 EGU2012-344
M. Simon, I.R. Hall, S. Barker, and M. Ziegler
Investigating the impact of millennial scale Agulhas Current System variability on global ocean circulation and climate
- Z62 EGU2012-6144
J. Steinhardt, U. Fallet, R. Tjallingii, and G.-J. A. Brummer
Core top particle component analysis from the southwestern Indian Ocean
- Z63 EGU2012-5248
M. Ziegler, I.R. Hall, P.J. Siret, and R. Zahn
Pleistocene ice-rafted debris events recorded at the Agulhas Plateau - indicators of intermittent Indian-Atlantic gateway closure

CL4.4 – Modern and Palaeomonsoon – Orals

Convener: S. Prasad | Co-Conveners: N. Basavaiah, K. Raghavan, U. Cubasch, T. Nakagawa, H. Schulz, M. Strecker, A. Brauer

Room: 13

Chairperson: n.n.

- 08:30–08:45 EGU2012-7138
S. F. M. Breitenbach, B. Plessen, F. Lechleitner, N. Marwan, J. F. Adkins, and G. H. Haug
The glacial Indian summer monsoon - precipitation changes during Heinrich and D-O events in NE India
- 08:45–09:00 EGU2012-4749
N. Basavaiah and N. Juyal
Indian Summer Monsoon: A Reconstruction Based on Terrestrial Archive During the Last 30 ka from Indian Subcontinent
- 09:00–09:15 EGU2012-12731
H. Schulz, P. Munz, K. Pascher, A. Lückge, B. Gaye, and M. Kucera
Reconstruction of westerly and monsoonal atmospheric systems affecting climate of Central Asia: a view from sediment records of the Eastern Mediterranean and the Northern Arabian Sea
- 09:15–09:30 EGU2012-1659
P.D. Clift, D. Hu, P. Böning, S. Wan, and H. Brumsack
Deep-sea weathering and erosion records of monsoon variations in the northern South China Sea
- 09:30–09:45 EGU2012-7293
K. Raghavan, T.P. Sabin, M. Mujumdar, and P. Priya
Extreme monsoon precipitation events over South Asia in a warming world

09:45–10:00 EGU2012-8604

A. Menon, A. Levermann, and J. Schewe

Future increase of west African monsoon due to sea ice melt

CL4.4 – Modern and Palaeomonsoon – Posters

Convener: S. Prasad | Co-Conveners: N. Basavaiah, K. Raghavan, U. Cubasch, T. Nakagawa, H. Schulz, M. Strecker, A. Brauer

Hall Z | Display Time 08:00–17:00

Author in Attendance: 13:30–15:00

Chairperson: n.n.

- Z64 EGU2012-187
S. Polanski, F. Hanf, D. Befort, F. Menzel, U. Cubasch, and G.C. Leckebusch
Indian Summer Monsoon Variability and its Physical Mechanisms in the last Millennium
- Z65 EGU2012-2480
J. Schewe, A. Levermann, and H. Cheng
A critical humidity threshold for monsoon transitions
- Z66 EGU2012-5777
K. Rehfeld, N. Marwan, S. Breitenbach, and J. Kurths
Holocene monsoon variability as resolved in small complex networks from palaeodata
- Z67 EGU2012-9974
S. Wild, G.C. Leckebusch, D.J. Befort, and U. Cubasch
South Asian Monsoon Variability and its Relation to Midlatitude Teleconnections
- Z68 EGU2012-13093
M. P. Karami, A. Berger, N. Herold, and Q. Z. Yin
A climate model study of an intense Asian Monsoon in a La Niña-like climate of MIS-13
- Z69 EGU2012-227
S. P. Prizomwala, N. Bhatt, A. M. Hirt, and W. Winkler
High Resolution Mid to Late Holocene Paleoclimatic Reconstruction from the Mudflats of Gulf of Kachchh Coast, Western India
- Z70 EGU2012-701
F. A. Lechleitner, S. F. M. Breitenbach, H. Cheng, J. F. Adkins, B. Plessen, and G. H. Haug
The last deglaciation in NE India reconstructed from a stalagmite from Mawmluh cave
- Z71 EGU2012-927
Y Dixit, DA Hodell, and CA Petrie
Holocene monsoon variability inferred from palaeolake sediments in NW India.
- Z72 EGU2012-2018
S. Prasad, N. Basavaiah, A. Anoop, B. Plessen, P. Menzel, B. Gaye, A. Brauer, M. Wiesner, R. Naumann, and N. Nowaczyk
Holocene climate variability inferred from geochemical proxies in monsoonal Central India
- Z73 EGU2012-4170
A. Böll and B. Gaye
A high resolution 2000 year record of monsoon variability in the Arabian Sea
- Z74 EGU2012-4206
P. Menzel, B. Gaye, M. Wiesner, S. Prasad, N. Basavaiah, M. Stebich, A. Anoop, N. Riedel, and A. Brauer
Indications of human activity from amino acid and amino sugar analyses on Holocene sediments from lake Lonar, central India
- Z75 EGU2012-4831
A. Dallmeyer, M. Claussen, Y. Wang, and U. Herzschuh
Spatial differences in the Holocene precipitation change within the Asian monsoon region - a model data comparison
- Z76 EGU2012-5238
A.T. Gurlan, C. Chauvel, and C. Voisin
ÉNd IN SEAWATER RECORDS OCEAN TEMPERATURE CHANGES WITH A TIME DELAY
- Z77 EGU2012-6648
A. Anoop, S. Prasad, R. Krishnan, R. Naumann, P. Dulski, S. Gärber, N. Basavaiah, K. Deenadayalan, and A. Brauer
Extreme events and spatiotemporal changes in the westerlies and Indian summer monsoon during the early-mid Holocene in NW Himalayas
- Z78 EGU2012-6660
X. Huang, H. Oberhänsli, M. Mathis, **S. Prasad**, and H. von Suchodoletz
A Holocene lacustrine record of Lake Sonkul: hydro-climatic changes in central Asia and possible interactions between westerlies and Asian monsoon

- Z79 EGU2012-8116
W.E. Piller, M. Reuter, A.K. Kern, and M. Harzhauser
 Miocene climate seasonality in southern India - first direct evidence for a weak Indian monsoon during the Middle Miocene Climate Optimum
- Z80 EGU2012-12692
M. Zech, M. Tuthorn, R. Zech, F. Schlütz, W. Zech, and B. Glaser
 A 16 ka lacustrine 18O record from High Himalaya reflecting the Indian Monsoon variability

CL4.6/AS1.15/OS1.7 – Tropical Climate Variability and Teleconnections: past, present and future (co-organized) – Orals

Convener: B. Rodríguez de Fonseca | Co-Conveners: E. Mohino, T. Losada, J. Garcia-Serrano, F. Kucharski, I. Polo

Room: 16

Chairperson: Fred Kucharski and Belen Rodríguez

- 13:30–13:45 EGU2012-1524
H. Tatebe, Y. Imada, M. Kimoto, and H. Hasumi
 South Pacific Ocean controls the phase reversal and periodicity of the decadal and bi-decadal ENSO-like variabilities
- 13:45–14:00 EGU2012-1875
H. Dayan, J. Vialard, T. Izumo, M. Lengaigne, and P. Terray
 External interannual ENSO forcing : which regions outside equatorial Pacific may influence the evolution of ENSO ?
- 14:00–14:15 EGU2012-2177
C. Frauen and D. Dommenges
 Influences of the tropical Indian and Atlantic Oceans on the predictability of ENSO
- 14:15–14:30 EGU2012-12977
I. Polo, B. W. Dong, and R. T. Sutton
 Tropical Interannual Variability Changes from a Substantial Weakening of the Atlantic Meridional Overturning Circulation
- 14:30–14:45 EGU2012-533
J. Lopez-Parages and B. Rodríguez-Fonseca
 Multidecadal modulation of El Niño influence on the Euro-Mediterranean rainfall
- 14:45–15:00 EGU2012-6146
L. Terray
 Modes of forced and internal decadal variability in the Tropics and ExtraTropics from CMIP5 models
- Chairperson: Belén Rodríguez and Irene Polo
- 15:30–15:45 EGU2012-10239
B.-M. Joseph
 Predictability of rainy season onset and cessation in east Africa
- 15:45–16:00 EGU2012-10340
PA. Monerie, B. Fontaine, and P. Roucou
 Future changes in the African monsoon through a pool of CMIP5 models
- 16:00–16:15 EGU2012-12365
B. Dieppois, A. Durand, M. Fournier, A. Diedhiou, B. Fontaine, N. Massei, Z. Nouaceur, and D. Sebag
 Low-frequency Sahel rainfall variability and Atlantic Sea Surface Temperatures during the last century
- 16:15–16:30 EGU2012-12670
 B. Cook, J. Yoon, and **N. Zeng**
 Future Drying of the Southern Amazon Projected by IPCC Climate Models
- 16:30–16:45 EGU2012-7225
B. Scherllin-Pirscher, C. Deser, S.-P. Ho, C. Chou, W. Randel, and Y.-W. Kuo
 Upper tropospheric and lower stratospheric ENSO signal derived from GPS radio occultation temperature
- 16:45–17:00 EGU2012-3869
E. Lim, H. Hendon, and H. Rashid
 Dynamical forecast of low-frequency variability of the Southern Annular Mode

CL4.6/AS1.15/OS1.7 – Tropical Climate Variability and Teleconnections: past, present and future (co-organized) – Posters

Convener: B. Rodríguez de Fonseca | Co-Conveners: E. Mohino, T. Losada, J. Garcia-Serrano, F. Kucharski, I. Polo

Hall Z | Display Time 08:00–17:00

Author in Attendance: 10:30–12:00

Chairperson: Fred Kucharski and Irene Polo

- Z81 EGU2012-980
A. Fischel, M.-S. Seidenkrantz, M. Kucera, and A. Kujipers
Holocene climate variability in the tropics - high resolution records from the Anegada-Jungfern Passage, NE-Caribbean
- Z82 EGU2012-5528
V. Khon, W. Park, M. Latif, I. Mokhov, and B. Schneider
The Hadley and Walker circulations and changes of the hydrological cycle during the Holocene and Eemian from climate model simulations
- Z83 EGU2012-4574
H.-G. Lim and S.-W Yeh
Volcanic effect on the tropical sea surface temperature in a millennium coupled model simulation
- Z84 EGU2012-4297
N.S. Fuckar, **R. Farneti**, S.P. Xie, E. Maroon, and D.M.W. Frierson
Could changes in the extratropical ocean circulation modify the mean tropical climate and ITCZ?
- Z85 EGU2012-4380
M. Fujita, M. Hara, and H. G. Takahashi
Diurnal cycle of precipitation over the eastern Indian Ocean off Sumatra Island during different IOD phases
- Z86 EGU2012-9584
R. Farneti, F. Kucharski, and F. Molteni
On the mechanisms of Interdecadal Pacific Oscillation-type variability
- Z87 EGU2012-12885
I. Polo, M. Martin-Rey, B. Rodriguez-Fonseca, C. R. Mechoso, and F. Kucharski
Processes in the Influence of Tropical Atlantic Sea Surface Temperatures on Pacific la Nina Onset
- Z88 EGU2012-13488
B. Rodríguez de Fonseca, I. Polo, T. Losada, **E. Mohino**, and R. Mechoso
Non stationary impact of the Equatorial Atlantic on the El Niño Southern Oscillation
- Z89 EGU2012-13050
T. Losada and B. Rodríguez-Fonseca
Atmospheric Response to Changes in the Atlantic Equatorial Mode and in the Background State of SST.
- Z90 EGU2012-8144
A G Turner, B M Harris, and E J Highwood
Monsoon collapse following tropical super-volcanic eruptions
- Z91 EGU2012-1362
T. Bayr and D. Dommenges
The Land-Sea Warming Contrast as the Driver of Tropical Sea Level Pressure Changes
- Z92 EGU2012-2633
F. Kucharski, N. Zeng, and E. Kalnay
A further assessment of vegetation feedback on decadal Sahel rainfall variability
- Z93 EGU2012-5207
D. Folini, D. Baumgartner, and M. Wild
20th century precipitation changes in the Sahel region: sensitivity studies with ECHAM5-HAM
- Z94 EGU2012-7561
C. Seiler
Climate Variability and Trends in Bolivia
- Z95 EGU2012-8305
A G Turner, M Joshi, E S Robertson, and S J Woolnough
The effect of Arabian Sea optical properties on SST biases and the South Asian summer monsoon in a coupled GCM
- Z96 EGU2012-10406
C. Williams, R. Allan, and D. Kniveton
Comparing atmosphere-land surface feedbacks from models within the tropics (CALM). Part 1: Evaluation of CMIP5 GCMs to simulate the land surface-atmosphere feedback
- Z97 EGU2012-10729
S. Wild, J.M. Eden, M. Widmann, and G.C. Leckebusch
Spatial structure and potential predictability of summer precipitation in Ethiopia
- Z98 EGU2012-13841
F.S. Syed, **H. Körnich**, and M. Tjernström
On the fog variability over south Asia
- Z99 EGU2012-313
V. Platonov, E. Semenov, and E. Sokolikhina
Extreme La-Nina 2010/11 and the vigorous flood at the north-east of Australia.
- Z100 EGU2012-1929
J. Collins, D. Roache, and J. Yoo
Assessment of the 2011 Atlantic Hurricane Season

- Z101 EGU2012-2426
e. scoccimarro, s. gualdi, and a. navarra
Hurricanes interaction with the Arctic Climate
- Z102 EGU2012-3177
P. Braesicke, S. H. Ooi, and A. A. Samah
Borneo Vortices: A case study and its relation to climatology
- Z103 EGU2012-5669
J. Runge and J. Kurths
A model-free definition of coupling strength for assessing the influence between climatic processes
- Z104 EGU2012-6320
M. Jacques-Coper and S. Brönnimann
Summertime Climate Variability and Teleconnections over Southern South America during the 20th Century
- Z105 EGU2012-6428
I. Herceg Bulic
ENSO impact on North Atlantic/European region in a changing climate
- Z106 EGU2012-6698
E.-C. Chang, S.-W. Yeh, S.-Y. Hong, J.-E. Kim, and R. Wu
Analysis on a teleconnection patterns between tropical ocean SSTs and extratropics by using a global downscaled precipitaton dataset
- Z107 EGU2012-4590
S.-M. Lim and S.-W. Yeh
Possible link the tropical SST anomalies and Arctic Oscillation on the low-frequency timescales during the boreal winter
- Z108 EGU2012-58
A.A. Ekaykin, A.V. Kozachek, V.Ya. Lipenkov, Yu.A. Shibaev, and R. Vaikmae
On the relationship between the climate variability in middle-low latitudes of the Southern Hemisphere and central Antarctica over the past 350 years

CL4.8/BG2.22 – Climate Change: Carbon Cycle, Mortality, Growth, and Shift of Forests (co-organized) – Orals

Convener: F. D'Aprile | Co-Conveners: N. Tapper, D. Dunkerley

Room: 19

Chairperson: Fabrizio D'Aprile

- 15:30–15:45 EGU2012-13053
O. Khabarova and I. Savin
El Niño, global CO₂ and forest growth
- 15:45–16:00 EGU2012-5548
M. Dury, A. Hambuckers, P. Warnant, I. Jacquemin, W. Thuiller, and L. François
Modelling the risk of ecosystem disruption in Europe with a dynamic vegetation model
- 16:00–16:15 EGU2012-1612
R. Schuster, B. Zeisler, and **W. Oberhuber**
Impact of climate warming-induced increase in drought stress on successional dynamic of a coniferous forest within a dry inner Alpine environment
- 16:15–16:30 EGU2012-8151
T. Marthews, Y. Malhi, C. Girardin, J. Silva-Espejo, L. Aragão, D. Metcalfe, J. Rapp, L. Mercado, R. Fisher, D. Galbraith, J. Fisher, N. Salinas-Revilla, A. Friend, N. Restrepo-Coupe, and R. Williams
Simulating forest productivity along a neotropical elevational transect: temperature variation and carbon use efficiency
- 16:30–16:45 EGU2012-2302
B. Schuldt, C. Leuschner, V. Horna, G. Moser, M. Köhler, O. van Straaten, and H. Barus
Change in hydraulic properties and leaf traits in a tall rainforest tree species subjected to long-term throughfall exclusion in the perhumid tropics
- 16:45–17:00 EGU2012-1611
J. Chu
The impact of afforestation on projected climate in Australia during the 21st Century
- 17:00–17:15 EGU2012-13678
B. Székely, A. Kania, N. Pfeifer, H. Heilmeyer, J. Tamás, N. Szöllösi, and W. Mücke
A concept for extraction of habitat features from laser scanning and hyperspectral imaging for evaluation of Natura 2000 sites - the ChangeHabitats2 project approach

CL4.8/BG2.22 – Climate Change: Carbon Cycle, Mortality, Growth, and Shift of Forests (co-organized) – Posters

Convener: F. D'Aprile | Co-Conveners: N. Tapper, D. Dunkerley

Hall Z | Display Time 08:00–17:00

Author in Attendance: 10:30–12:00

Chairperson: Fabrizio D'Aprile

- Z109 EGU2012-425
F. D'Aprile, N. Tapper, P. Baker, L. Bartolozzi, and A. Bottacci
Changes in the relationships between climate and silver fir (*Abies alba* Mill.) growth during the 20th century in the Tuscan Apennine Alps (Middle Italy)
- Z110 EGU2012-9592
C. Irschick, S. Mayr, and G. Wohlfahrt
The response of European tree species to drought: a meta-analysis
- Z111 EGU2012-7897
g. ceccherini and n. gobron
Spatio-temporal patterns of natural vegetation dynamics for different land use and ecosystems over Europe 1997-2011
- Z112 EGU2012-10953
P. Sinigoj, K. Goergen, A. C. Vasconcelos, J. Junk, K. Houchi, L. Pfister, and L. Hoffmann
A sensitivity study on the impacts of climate change on European tree species distribution based on ENSEMBLES RCMs
- Z113 EGU2012-7822
H. Müller-Haubold, D. Hertel, Ch. Leuschner, and D. Seidel
Patterns of aboveground biomass allocation of mature beech forests change in response to water availability - a transect study in Northern Germany
- Z114 EGU2012-726
V. Popovic, D. Jokanovic, M. Sijacic-Nikolic, T. Cirkovic-Mitrovic, and V. Babic
Impact of climatic factors on the growth rings width of *Taxodium* from Backa Palanka area (*Taxodium distichum* (L.)Rich.)
- Z115 EGU2012-4933
R. Pokorny, O. Urban, P. Holisova, M. Sprtova, L. Sigut, and R. Slipkova
Growth strategy of Norway spruce under air elevated [CO₂]
- Z116 EGU2012-12847
A. Giuggiola, A. Rigling, and M. Dobbertin
Reduction of stand density as a management tool to mitigate the effect of drought

CL5.10 – Regional Climate Modeling, projections and impacts (including CORDEX) – Orals

Convener: F. Giorgi | Co-Conveners: R. Arritt, A. Zakey

Room: 15

Chairperson: Filippo Giorgi

- 08:30–08:45 EGU2012-3258
M. S. Bukovsky and L. O. Mearns
The North American Regional Climate Change Assessment Program (NARCCAP): Overview of Climate Change Results
- 08:45–09:00 EGU2012-3269
Y. Qian, B. Yang, G. Lin, R. Leung, and Y. Zhang
Uncertainty Quantification and Parameter Tuning: A Case Study of Convective Parameterization Scheme in the WRF Regional Climate Model
- 09:00–09:15 EGU2012-2494
D. Paquin and R. de Elia
Occurrence of deep convective events over North America under a changing climate using Canadian RCM simulations.
- 09:15–09:30 EGU2012-3767
R. Arritt and the The MRED Team
Downscaled seasonal forecasts using an ensemble of regional models
- 09:30–09:45 EGU2012-2430
G.T. Diro, S. Rauscher, F. Giorgi, and A. Tompkins
Sensitivity of seasonal climate and diurnal precipitation over Central America to land surface and SST schemes in RegCM4
- 09:45–10:00 EGU2012-13836
A. A. Costa, D. C. Sales, F. C. Vasconcelos Jr., M. M. Coutinho, L. M. Araújo Jr., and E. M. Silva
Simulations of Current Climate and Climate Change over the Tropical Americas

COFFEE BREAK

Chairperson: Ashraf Zakey

- 10:30–10:45 EGU2012-6460
L. Sun
Verification of the 10-year Dynamical Downscaling Forecasts over Northeast Brazil
- 10:45–11:00 EGU2012-10251
C. Jones, G. Nikulin, and E. Kjellström
Dynamical downscaling of CMIP5 GCM simulations over the Africa-CORDEX domain: Evaluating climate variability for the recent past
- 11:00–11:15 EGU2012-8047
E. Kjellström, G. Nikulin, and C.G. Jones
Future changes in the African temperature and precipitation climate in an ensemble of Africa-CORDEX regional climate model simulations
- 11:15–11:30 EGU2012-4939
A. Hänsler, F. Saeed, and D. Jacob
Dynamical downscaling of the most recent climate change projections over Africa using REMO
- 11:30–11:45 EGU2012-7529
L. Mariotti, A. Marnain, E. Coppola, F. Giorgi, and S.K. Dash
CORDEX experiment over West Asia domain using the new Regional Climate Model RegCM4.2
- 11:45–12:00 EGU2012-5271
E. Coppola and F. Giorgi
A surrogate climate change experiment with the RegT-Band to investigate the increase of Hydroclimatic Intensity

LUNCH BREAK

Chairperson: Ray Arritt

- 13:30–13:45 EGU2012-7197
S. Wang and D. Lee
Building Asian Climate Change Scenarios by Multi-Regional Climate Models Ensemble
- 13:45–14:00 EGU2012-1572
W.-R. Huang and J. C. L. Chan
Regional Climate Simulations of Summer Diurnal Rainfall Variations over East Asia and Southeast China
- 14:00–14:15 EGU2012-7093
S. G. Oh, M. S. Suh, D. H. Cha, and H. S. Kang
Impact of Boundary Conditions on Extreme Climate Simulation over South-Korea in the CORDEX-East Asia Domain Using RegCM4
- 14:15–14:30 EGU2012-9984
A. S. Zakey, A. K. Shalaby, F. Solmon, F. Giorgi, A. B. Tawfik, A. L. Steiner, and A. Baklanov
New Development of the Online Integrated Climate-Chemistry model framework (RegCM-CHEM4)
- 14:30–14:45 EGU2012-2099
C Caminade and AP Morse
When will European countries exceed the 2°C temperature increase?
- 14:45–15:00 EGU2012-7136
R. Lorenz, E.L. Davin, and S.I. Seneviratne
Land-climate feedbacks and climate extremes in the regional climate model COSMO-CLM2

Chairperson: Filippo Giorgi

- 15:30–15:45 EGU2012-8211
A. Gobiet, D. Jacob, and EURO-CORDEX Community
A new generation of regional climate simulations for Europe: The EURO-CORDEX Initiative
- 15:45–16:00 EGU2012-6267
C. Teichmann, D. Rechid, K. Sieck, and D. Jacob
Evaluation of historical climate simulations from a global earth system model downscaled over the EURO-CORDEX domain
- 16:00–16:15 EGU2012-9791
H. Feldmann, G. Schädler, and H.-J. Panitz
Intensification of the regional scale variability of extreme precipitation derived from RCM simulations and observations
- 16:15–16:30 EGU2012-8065
M. Suklitsch and A. Gobiet
Exploring the diurnal cycle in convection resolving COSMO-CLM simulations

- 16:30–16:45 EGU2012-6080
S. Somot, P. Ruti and the MedCORDEX modelling Team
 The Med-CORDEX initiative: towards fully coupled Regional Climate System Models to study the Mediterranean climate variability, change and impact
- 16:45–17:00 EGU2012-11696
R. M. Cardoso, P. M. M. Soares, P. M. A. Miranda, M. Belo-Pereira, and J. Medeiros
 Iberian mean and extreme precipitation climate: WRF-Cordex regional simulations

BG6.3/CL5.14/SSP5.4 – Micropaleontology: a key to modern and ancient environments (co-organized) – Orals

Convener: K. Koho | Co-Conveners: F. Jorissen, A. Sluijs, C. Fontanier

Room: 23

Chairperson: n.n.

- 08:30–08:45 EGU2012-4722
N. Dijkstra, J. Junttila, K. Husum, J. Carroll, D. Klitgaard-Kristensen, and M. Hald
 Benthic foraminifera as indicators of pollution in high latitude marine environments
- 08:45–09:00 EGU2012-3861
H. Kitazato, N. Ohkawara, A. Iwasaki, H. Nomaki, I. Akoumianaki, and H. Tokuyama
 Live (Rose-bengal stained) foraminifera from deep-sea anoxic salt brine in the Eastern Mediterranean: toward understanding limit of life for single-celled eukaryotes (foraminifera)
- 09:00–09:15 EGU2012-13508
R.J. Telford and M. Kucera
 Consequences of the mismatch between the depth at which planktonic foraminifera live and the calibration depth of SST transfer functions
- 09:15–09:30 EGU2012-11943
H. Takagi, K. Moriya, T. Ishimura, A. Suzuki, H. Kawahata, H. Hirano, and IODP Exp. 330 Scientists
 Individual ontogenetic stable isotope records of Recent planktonic foraminifera: Testing for algal photosymbiosis
- 09:30–09:45 EGU2012-5731
J.C. Wit, L.J. de Nooijer, R. Hennekam, G.J. de Lange, and G.J. Reichert
 Foraminiferal Na/Ca as a tool to reconstruct salinity
- 09:45–10:00 EGU2012-11727
T. Hesse, D. Wolf-Gladrow, J. Bijma, G. Lohmann, and R. Zeebe
 Impact of vital effects and carbonate chemistry on $\delta^{13}\text{C}$ in benthic foraminifera: model sensitivity experiments

BG6.3/CL5.14/SSP5.4 – Micropaleontology: a key to modern and ancient environments (co-organized) – Posters

Convener: K. Koho | Co-Conveners: F. Jorissen, A. Sluijs, C. Fontanier

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

Author in Attendance: 15:30–17:00

Chairperson: Koho/Jorissen

- BG68 EGU2012-4283
C. Lopes
 Statistical considerations on the application of Micropaleontology in order to reconstruct past environments: a diatom case study.
- BG69 EGU2012-7899
M. Theodor, Y. Milker, A. Müller, and G. Schmiedl
 Paleoecology of benthic foraminifera from Paleogene shelf environments: Example from the "Latdorf" transgression in northeastern Germany
- BG70 EGU2012-4068
M.A. Kaminski, S. Kender, A. Ciurej, and R. Balc
 Pliocene-Pleistocene Benthic Foraminiferal assemblages in the Southern Bering Sea, (IODP Expedition 323).
- BG71 EGU2012-1066
A. Cortina, F.J. Sierro, G. Filippelli, and J.A. Flores
 The orbital control of the sea level and past climatic changes in the Gulf of Lions (off south of France) from 133 kyr to 400 kyr
- BG72 EGU2012-13830
J. M. Bouchal
 High resolution taxonomic study of the late Eocene (~34 Ma) Florissant palynoflora, Colorado, USA
- BG73 EGU2012-9385
A. Bornemann, R. Walther, S. D'haenens, C. Joachim, R.P. Speijer, J. Mutterlose, and R.D. Norris
 Microfossil response to the PETM at DSDP Site 401 (eastern North Atlantic)

- BG74 EGU2012-2373
M. Saeidi Ortakand and S. Hasegawa
Biostratigraphy and paleoceanography of the Japan Sea in Joetsu Basin since 120 cal. kyr BP
- BG75 EGU2012-5800
D. Theobalt and O. Mandic
Badenian planktonic foraminifera as climate proxies at the southern margin of the Central Paratethys (Ugljevik, Bosnia and Herzegovina)
- BG76 EGU2012-5401
K. Zamelczyk, T.L. Rasmussen, K. Husum, and M. Hald
Climate changes and calcium carbonate dissolution of planktic foraminifera assemblages over the last 30,000 years in the Fram Strait
- BG77 EGU2012-11662
S. Iepure, T. Namiotko, A. Montanari, E. Brugiapaglia, M. Mainiero, S. Mariani, and M. Fiebig
A comparison of modern and fossil ostracods from Frassasi Cave system (northeastern Apennines, Italy) to infer past environmental conditions
- BG78 EGU2012-7848
I. Hessler, M. Young, M. Mohtadi, A. Lückge, and H. Behling
The distribution of organic-walled dinoflagellate cysts in marine surface samples of the eastern Indian Ocean in relation to environmental conditions
- BG79 EGU2012-6113
V.M.P. Bouchet, S. Hess, J.K. Dolven, and E. Alve
The use of fossil benthic foraminifera to define reference conditions for present-day marine waters
- BG80 EGU2012-4744
N. Dijkstra, J. Junntila, K. Husum, J. Carroll, and M. Hald
Assessing environmental impact from gas and oil exploration in the SW Barents Sea using benthic foraminiferal assemblages
- BG81 EGU2012-10288
E. Bertoni, L. Bertello, L. Capotondi, C. Bergami, F. Giglio, M. Ravaioli, C. Rossi, and A. Ferretti
Benthic foraminifera as indicators of hydrologic and environmental conditions in the Ross Sea (Antarctica)
- BG82 EGU2012-11885
J. Vidovi?, V. ?osovi?, M. Jura?i?, and ?. Benac
Total assemblages of benthic foraminifera from a mixed siliciclastic/carbonate inner shelf; preliminary results from the bays of Soline and Nin (Adriatic Sea, Croatia)
- BG83 EGU2012-2203
F. Fiorini and S. W. Lokier
Recent benthic foraminiferal assemblages and sedimentary facies distribution from marginal marine environment of Abu Dhabi region (Arabian Gulf)
- BG84 EGU2012-11503
E. Salgueiro, T. Rodrigues, F. de la Granda, N. Villacieros-Robineau, F. Alonso, D. Zuñiga, P. A. Martin, C.G. Castro, A. Voelker, and F. Abrantes
Temperature calibration along the NW Iberian margin: multi-proxy approach
- BG85 EGU2012-564
D. Evans and W. Müller
Foraminifera Mg/Ca palaeothermometry in a high CO₂ world - appropriate correction for secular change in seawater chemistry
- BG86 EGU2012-5045
T. Kuhnt, O. Friedrich, G. Schmiedl, Y. Milker, A. Mackensen, and R. Schiebel
Relationship between the pore density in benthic foraminifera and bottom-water oxygen content
- BG87 EGU2012-8203
K.A Koho, E. Pina-Ochoa, E. Geslin, and N. Risgaard-Petersen
Vertical migration, nitrate uptake and denitrification: survival mechanisms of foraminifers (*Globobulimina turgida*) under low oxygen conditions
- BG88 EGU2012-7745
A. Movellan, R. Schiebel, M.V. Zubkov, A. Smyth, H.. Howa, and **F. Jorissen**
Quantification of individual foraminifer protein content using nano-spectrophotometry
- BG89 EGU2012-5527
C.-W. Chien, C.-Y. Huang, H.-C. Lee, S.-D. Luo, S.-Y. Jiang, and C.-H. Liu
Polymorphic authigenic carbonates and foraminifera taphonomical characteristics of a paleoseep, Southwestern Taiwan

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

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

Room: 33

Chairperson: Roberto Deidda

- 08:30–08:45 EGU2012-1181
E. Morin
To know what we cannot know: Global mapping of minimal detectable absolute trends in annual precipitation
- 08:45–09:00 EGU2012-7261
H. J. D. Sørup, M. Sunyer, O. B. Christensen, K. Arnbjerg-Nielsen, and P. S. Mikkelsen
Extreme and mean rainfall differences in observational data used as reference in climate studies
- 09:00–09:15 EGU2012-4866
V. Thiemig, R. Rojas, V. Levizzani, and A. De Roo
Validation of satellite-based precipitation estimates over different African River Basins
- 09:15–09:30 EGU2012-8989
R. Roca, P. Chambon, I. Jobard, and N. Viltard
Investigating the error budget of tropical rainfall accumulations derived from combined passive microwave and infrared satellite measurements
- 09:30–09:45 EGU2012-9730
T. Bellerby
Ensemble conditional precipitation simulation from spatiotemporally heterogeneous multiplatform satellite data sets.
- 09:45–10:00 EGU2012-1400
S. Dance and A. Seed
Characterizing Radar Rain gauge Errors for NWP Assimilation

COFFEE BREAK

Chairperson: Tim Bellerby

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

LUNCH BREAK

Chairperson: Andreas Langousis

- 13:30–13:45 EGU2012-8190
G.T. Diro, A.M. Tompkins, and X. Bi
Dynamical downscaling of ECMWF ensemble seasonal forecast over East Africa with RegCM3
- 13:45–14:00 EGU2012-8417
A. Champion, K. Hodges, and L. Bengtsson
Dynamically Downscaling Precipitation from Extra-Tropical Cyclones
- 14:00–14:15 EGU2012-13440
E. Brisson, N.P.M. van Lipzig, and M. Demuzere
Downscaling precipitation at convection resolving scale using COSMO-CLM.
- 14:15–14:30 EGU2012-4684
A. Sharma, F. Woldemeskel, R. Mehrotra, and B. Sivakumar
An error model for GCM precipitation and temperature simulations

- 14:30–14:45 EGU2012-13531
F Wetterhall, H. L. Cloke, Y He, J Freer, and F Pappenberger
 Modelling climate impact on floods under future emission scenarios using an ensemble of climate model projections
- 14:45–15:00 EGU2012-2478
P. Horton, M. Jaboyedoff, and C. Obled
 Calibration of the analogue method for precipitation forecasting by means of genetic algorithms
- Chairperson: Stefanie Vogl
- 15:30–15:45 EGU2012-12765
H. W. Rust, M. Vrac, M. Lengaigne, and B. Sultan
 Towards downscaling precipitation for Senegal - An approach based on generalized linear models and weather types
- 15:45–16:00 EGU2012-5863
M. Milan and C. Simmer
 A Sequential Ensemble Prediction System at Convection Permitting Scales
- 16:00–16:15 EGU2012-10486
A. F. Prein, A. Gobiet, M. Suklitsch, H. Truhetz, N. K. Awan, K. Keuler, and G. Georgievski
 Added Value of Convection Resolving Climate Simulations
- 16:15–16:30 EGU2012-2843
D. Cane, S. Barbarino, L. Renier, and C. Ronchi
 Regional Climate Models Downscaling in the Alpine Area with Multimodel SuperEnsemble
- 16:30–16:45 EGU2012-9829
 S. Vogl, P. Laux, **W. Qiu**, G. Mao, and H. Kunstmann
 Copula-based assimilation of radar and gauge information to derive bias corrected precipitation fields
- 16:45–17:00 EGU2012-10864
N. Addor, N. Salzmänn, T. Ewen, and J. Seibert
 Bias-correction conditioned on circulation patterns for ENSEMBLES precipitation simulations in mountainous regions

HS10.8/BG4.4 – Environmental and anthropogenic change affecting catchments and groundwater-dependent ecosystems (co-listed) – Orals

Convener: S. J. Schymanski | Co-Conveners: S. Fatichi, B. Klöve, S. Manfreda, M. Sivapalan, C. Stumpp

Room: 39

Chairperson: Stan Schymanski

- 13:30–13:45 EGU2012-9494
A. Montanari
 Modelling hydrological systems under change: sociohydrology and sustainable development
- 13:45–14:00 EGU2012-3449
P. Kumar, V. Srinivasan, P. V. V. Le, and D. Drewry
 Ecological Acclimation and Hydrologic Response: Problem Complexity and Modeling Challenges
- 14:00–14:15 EGU2012-1871
P. M. Rossi, P. Ala-aho, and A-K. Ronkanen
 The role of peat double porosity on groundwater-surface water interaction in a drained fen
- 14:15–14:30 EGU2012-13429
T. G. Reichenau, T. Krimly, and K. Schneider
 Effects of dynamic agricultural decision making in an ecohydrological model
- 14:30–14:45 EGU2012-6047
R. Wilby
 Evaluating environmental flows under climate variability and change
- 14:45–15:00 EGU2012-12952
U. Ehret, E. Zehe, V. Wulfmeyer, and K. Warrach
 Bias Correction used for Climate Projections from Climate Models - A Critique

HS10.8/BG4.4 – Environmental and anthropogenic change affecting catchments and groundwater-dependent ecosystems (co-listed) – Posters

Convener: S. J. Schymanski | Co-Conveners: S. Fatichi, B. Klöve, S. Manfreda, M. Sivapalan, C. Stumpp

Hall A | Display Time 08:00–17:00

Author in Attendance: 10:30–12:00

Chairperson: Simone Fatichi

- A296 EGU2012-10825
S. Pande
On Budyko curve as a consequence of climate-soil-vegetation equilibrium hypothesis
- A297 EGU2012-3337
X. Xu, D. Yang, and H. Yang
Impact of past climate variability and change on catchment ecohydrology in China
- A298 EGU2012-14242
S. J. Schymanski, D. Or, M. L. Roderick, and M. Sivapalan
Prediction under change: invariant model parameters in a varying environment
- A299 EGU2012-5637
g. ceccherini and f. castelli
Vegetation response to climate, eco-hydrological modeling at basin scale in water-limited ecosystems
- A300 EGU2012-9983
J.Z. Coletti and **M.R. Hipsey**
Ecohydrological feedbacks mediate wetland habitat response to climate variability
- A301 EGU2012-8131
G. Bertrand, J. Masini, N. Goldscheider, J.M. Gobat, and D. Hunkeler
Investigation of spatio-temporal variability of water uptake in a groundwater-dependent ecosystem using a stable isotope approach (^{18}O , ^2H): Pfyn Forest, Switzerland
- A302 EGU2012-12928
A. Sastre-Merlín, S. Martínez-Pérez, and E. Molina-Navarro
Groundwater in steppe environments: "El Hito" Lagoon wetland as a case of study (Cuenca; Spain)
- A303 EGU2012-8229
Simon, Mádl-Sz?nyi, and Weidinger
Investigation of groundwater dependent ecosystems in a complex hydraulic situation
- A304 EGU2012-3721
U. Schneidewind, M. El-Rawy, P. De Becker, and O. Batelaan
Analysis and Rehabilitation of a Groundwater-Dependent Ecosystem in Belgium
- A305 EGU2012-3708
S. Witczak, J. Kania, K. Rozanski, **P. Wachniew**, A. Zurek, and M. Dulinski
Environmental water requirements of groundwater dependent ecosystems: conflict between nature and man
- A306 EGU2012-802
N. Welti, D. Lockington, T. Jakeman, and R. Hunt
Characterizing hot spots throughout the catchment
- A307 EGU2012-12861
T. Graeff, G. Baroni, A. Bronstert, A. Hohlbein, and S. Oswald
Influence of climatic change on hydrological processes on coastal areas, a model study
- A308 EGU2012-11257
G. Garner, D.M. Hannah, I.A. Malcolm, and J.P. Sadler
Inter-annual variability of stream temperature, micro-climate and heat exchange dynamics: a comparison of forest and moorland environments
- A309 EGU2012-13432
K. Khamis, D.M Hannah, L.E Brown, and A.M Milner
Sub-seasonal river heat flux partitioning in an alpine, glacierized basin
- A310 EGU2012-1367
N. Frasheri, N. Pano, A. Frasheri, G. Beqiraj, S. Bushati, and E. Taska
A review on anthropogenic impact to the Micro Prespa lake and its damages
- A311 EGU2012-8652
C. Ikiel, **DE Kilic**, and A. Atalay Dutucu
General Ecological Characteristics Based on GIS Methods in Poyrazlar Lake, Turkey
- A312 EGU2012-11926
T. V. Sapelko, **K.V. Shemanaev**, D.D. Kuznetsov, and N.V. Ignatieva
Relation of human and natural factors in the development of lakes according to a complex analysis of lake sediments

OS1.2 – The North Atlantic: natural variability and global change (co-listed) – Posters

Convener: M. Rhein | Co-Conveners: R.J. Greatbatch

Hall X/Y | Display Time 08:00–17:00

Author in Attendance: 10:30–12:00

Chairperson: Reiner Steinfeldt

- XY311 EGU2012-1052
L.I. Carracedo, M. García, H. Mercier, P. Conde, P. Lherminier, F.F. Pérez, and M. Gilcoto
Interannual variability of water masses transports across A25-OVIDE section (subpolar atlantic gyre)

- XY312 EGU2012-1069
A.E. Vyazilova and A.V. Smirnov
Links between thermohaline anomalies in Northwest Atlantic and Nordic Seas
- XY313 EGU2012-5128
C. Denker, D. Kieke, B. Klein, H. Klein, and M. Rhein
Water mass properties on their way over the Mid-Atlantic-Ridge through the Faraday Fracture Zone
- XY314 EGU2012-4363
A. Smirnov and A. Korablev
Structure and long-term variability of oceanographic characteristics in the Nordic Seas derived from observed and gridded (DIVA software) datasets
- XY315 EGU2012-5810
A. Rubchenia, A. Popov, A. Fedorova, and N. Lebedev
Interpretation of time series (salinity and temperature) layers in North Atlantic from 1950 to 2011
- XY316 EGU2012-5570
E. Tzortzi, C.P. Gommenginger, S. Josey, and M.A. Srokosz
How does surface salinity and rain affect the North Atlantic ocean circulation?
- XY317 EGU2012-4967
C. Mielke, E. Frajka-Williams, and J Baehr
Observed and simulated seasonal variability of the AMOC at 26°N and 41°N
- XY318 EGU2012-6122
O. Khmel'nitskaya
Using the optimum multiparameter analysis to study the water masses of the North Atlantic
- XY319 EGU2012-9770
E. Burrillon, S.S. Drijfhout, and H.A. Dijkstra
Cause and effect of variations in the sinking of deep water in the MOC
- XY320 EGU2012-12738
M.-j. Messias, A. J. Watson, P. J. Brown, and B.A. King
Evidence of Greenland Sea Water at 24 degrees N from the Greenland Sea Tracer Experiment
- XY321 EGU2012-13372
M. G. Magaldi and T. W. N. Haine
Hydrostatic and non-hydrostatic simulations of the East Greenland Spill Jet
- XY322 EGU2012-6282
L. Schneider, D. Kieke, K. Jochumsen, M. Rhein, D. Quadfasel, E. Varotsu, N. Serra, E. Colbourne, and I. Yashayaev
Export of Labrador Sea Water through Flemish Pass
- XY323 EGU2012-4708
M. Korhonen, B. Rudels, U. Schauer, S. Pisarev, B. Rabe, and A Wisotzki
Reduction of salinity and temperature observed in the Atlantic layer in the eastern Eurasian Basin of the Arctic Ocean in summer 2011
- XY324 EGU2012-5218
C. Troupin and F. Machin
Negative wind anomalies generated a diminution of productivity in the North Atlantic in 2010
- XY325 EGU2012-1953
A. Nummelin
Convection in the Greenland Sea in winter 2010-2011: Comparison between model and observations
- XY326 EGU2012-5900
N. C. Wells
MOC, Heat Storage and Surface Heat Flux in 2009/2010.
- XY327 EGU2012-2127
N. Danialt, H. Mercier, P. Lherminier, A. Sarafanov, and A. Falina
The 2002-2010 mean circulation across the Greenland to Portugal A25-OVIDE section
- XY328 EGU2012-1399
X. Zhao and J. Li
Winter-to-Winter Recurrence (WWR) of Air-Sea System in the Northern Hemisphere
- XY329 EGU2012-7641
T. Martin, M. Latif, and A. Reintges
Uncertainties in freshwater and MOC predictions in the North Atlantic region
- XY330 EGU2012-3099
W. Mueller, D. Matei, M. Bersch, J. Jungclaus, K. Lohmann, and J. Marotzke
A 20th-century reanalysis forced ocean model to recover North Atlantic climate variability from 1870-2007
- XY331 EGU2012-11293
A. Born, T.F. Stocker, and A.B. Sandø
Salt transport in the Irminger Current: a regional and a global model
- XY332 EGU2012-9630
S.M. Olsen and **T. Schmith**
Greenland meltwater experiments

- XY333 EGU2012-8828
D. V. Sein, M. Gröger, E. Maier-Reimer, and **U. Mikolajewicz**
Modeling anthropogenic Climate Change of the northwest European Shelves and the northeast Atlantic
- XY334 EGU2012-7148
B. Filyushkin, S. Moshonkin, **S. Myslenkov**, and N. Kozhelupova
Simulation of interannual variability of overflow transport through the Denmark Strait
- XY335 EGU2012-10826
Y.-O. Kwon and C. Frankignoul
Multi-decadal Variability of Atlantic Meridional Overturning Circulation in the Community Climate System Model 3
- XY336 EGU2012-5594
A. Born, T.F. Stocker, C.C. Raible, and A. Levermann
Is the Atlantic subpolar gyre bistable in comprehensive coupled climate models?
- XY337 EGU2012-5884
A. Megann, A. New, and A Blaker
Model representation of salinity anomalies and the stability of the North Atlantic overturning circulation
- XY338 EGU2012-6093
M. Sonnewald, J. J.-M. Hirschi, and R. Marsh
Oceanic dominance of interannual subtropical North Atlantic heat content variability
- XY339 EGU2012-6482
M. Brunetti, E. Fenu, and M. Beniston
Stability properties of the North Atlantic Ocean Circulation
- XY340 EGU2012-10074
Y. Ruprich-Robert and C. Cassou
Mechanisms of the North Atlantic multidecadal internal variability in the CNRM-CM5 model
- XY341 EGU2012-3109
B. Tiedje, A. Köhl, and J. Baehr
North Atlantic heat transport and AMOC: Potential predictability in the subtropical and subpolar gyre
- XY342 EGU2012-11526
H. Pillar, D. Marshall, and H. Johnson
The Dependence of the Atlantic Overturning Circulation on Meridional Density Gradients
- XY343 EGU2012-4886
K. Shimizu
Dynamics of long baroclinic Rossby waves along 26°N in the Atlantic
- XY344 EGU2012-2192
W. P. Sijp
Characterising meridional overturning bistability as a dynamical system using a minimal set of state variables.
- XY345 EGU2012-3129
E. D. da Costa and M Juckes
Structural Uncertainty in the Winter NAO index
- XY346 EGU2012-5138
T. Christoudias, A. Pozzer, and J. Lelieveld
Influence of the North Atlantic Oscillation on air pollution transport
- XY347 EGU2012-7364
J. de Laat and M. Crok
A late 20th century European climate shift
- XY348 EGU2012-8421
M.V. Anisimov, V.I. Byshev, S.N. Moshonkin, V.G. Neiman, Ju.A. Romanov, I.V. Serykh, and V.B. Zalesny
On a Short-Term Climate Change in the North Atlantic Ocean
- XY349 EGU2012-13175
V.A. Melnikov, L.V. Moskalenko, N.N. Golenko, and M.N. Golenko
Boreal Atmospheric circulation patterns on the basis of the world network weather station data
- XY350 EGU2012-13435
J. A. Añel, M. Blanco-Durán, L. Gimeno, and L. de la Torre
Recovery of meteorological data for the observatory of A Guarda, Spain

SSP4.4 – Late Cretaceous – Early Paleogene climate dynamics and time scales (co-listed) – Posters

Convener: S. J. Batenburg | Co-Conveners: M. Sprovieri, S. Voigt, A. S. Gale, T. Westerhold

Hall A | Display Time 08:00–17:00

Author in Attendance: 15:30–17:00

Chairperson: n.n.

- A367 EGU2012-4748
J.W.H. Weijers, P. Steinmann, E.C. Hopmans, N. Basliko, S.A. Finkelstein, K.R. Johnson, S. Schouten, and J.S. Sinninghe Damsté
 Testing the potential of bacterial branched tetraether membrane lipids as temperature proxy in peat and immature coal deposits
- A368 EGU2012-4635
D.W. Jolley, R. Daly, I. Gilmour, M. Gilmour, and S.P. Kelley
 The Boltysh crater record of rapid vegetation change during the Dan-C2 hyperthermal event.
- A369 EGU2012-8293
S. Neuhuber and M. Wagneich
 Mineralogical and geochemical records of the Upper Campanian Globotruncanita calcarata Zone- implications for the Penninic Ocean.
- A370 EGU2012-6983
M. Wagneich, J. Hohenegger, and S. Neuhuber
 Cyclostratigraphy and an astronomically calibrated duration of the Late Campanian Globotruncanita calcarata Zone
- A371 EGU2012-7408
C. Jung, S. Voigt, O. Friedrich, and M. Frank
 Late Campanian to Maastrichtian palaeoceanographic changes in the tropical Pacific
- A372 EGU2012-7044
T. Adatte and G. Keller
 New Evidence links Deccan Traps to the Cretaceous-Tertiary Boundary Mass Extinction
- A373 EGU2012-5935
S. Aç?kal?n, ? Ö. Y?lmaz, F. Ocakoglu, H. B. Vonhof, A. Hakyemez, and J. Smit
 Paleoceanographic trends in the Campanian-Maastrichtian Pelagic Succession, Mudurnu-Goynuk Basin, NW Turkey
- A374 EGU2012-498
S. J. Batenburg, A. S. Gale, F. J. Hilgen, S. K. Hüsing, J. Laskar, X. Orue-Etxebarria, M. Sprovieri, and S. Voigt
 Astronomical tuning and carbon isotope stratigraphy of the Maastrichtian in Sopelana and Zumaia (Basque country, N-Spain)
- A375 EGU2012-6185
S. J. Batenburg, A. Montanari, M. Sprovieri, F. J. Hilgen, R. Coccioni, and A. S. Gale
 Astronomical tuning of black cherts in the Cenomanian Scaglia Bianca as precursors of the Bonarelli level (OAE2) at Furlo, Italy
- A376 EGU2012-8551
M. Sprovieri, N. Sabatino, N. Pelosi, S. Batenburg, R. Coccioni, M. Iavarone, and S. Mazzola
 Carbon cycles in Late Cretaceous time

SSP4.6 – Phanerozoic marginal and terrestrial palaeoenvironments as archives of biotic and climatic change: records and proxy developments (co-listed) – Orals

Convener: S. Robinson | Co-Conveners: U. Heimhofer, A. Lukeneder, J. Whiteside, J. McElwain, R. Pancost

Room: 41

Chairperson: Stuart Robinson

- 13:30–13:45 EGU2012-4936
N. Wang, Y. Zong, and C. Brodie
 An examination of organic molecular compounds of a lake sediment sequence to help explain organic carbon records of climate and environmental changes
- 13:45–14:00 EGU2012-11076
Y. Lu, Y. Hautevelle, and R. Michels
 Improvements of palaeochemotaxonomy as a palaeofloristic proxy using artificial maturation of extant conifers
- 14:00–14:15 EGU2012-4599
M. Heldt, J. Mutterlose, U. Berner, and J. Erbacher
 First high-resolution d13C-records across black shales of the Early Aptian Oceanic Anoxic Event 1a within the mid-latitudes of northwest Europe (Germany, Lower Saxony Basin)
- 14:15–14:30 EGU2012-12351
 C.J. Wesseln, **L. Mander**, J.C. McElwain, and S.W. Punyasena
 The preservation of pollen and spores across the Triassic-Jurassic transition in East Greenland
- 14:30–14:45 EGU2012-13755
P. E. Olsen, M. F. Schaller, D. V. Kent, and M. Et-Touhami
 Was it the CO₂ or the sulfur that did it? The mechanism of mass extinction of continental vertebrates at the end-Triassic extinction.

14:45–15:00 EGU2012-13647

J.H. Whiteside and D. Grogan

Orbital Forcing of a Low-Latitude Lacustrine Ecosystem During the Middle Devonian: Implications for the Onset of the Middle Paleozoic Icehouse World

SSP4.6 – Phanerozoic marginal and terrestrial palaeoenvironments as archives of biotic and climatic change: records and proxy developments (co-listed) – Posters

Convener: S. Robinson | Co-Conveners: U. Heimhofer, A. Lukeneder, J. Whiteside, J. McElwain, R. Pancost

Hall A | Display Time 08:00–17:00

Author in Attendance: 15:30–17:00

Chairperson: Stuart Robinson

A393 EGU2012-13424

D.A.T. Harper, E. Hammarlund, J.W. Hansen, A.T. Nielsen, J.A. Rasmussen, M.P. Smith, M. Stein, and J. Vinther

Biofacies and faunal dynamics through the Sirius Passet Lagerstätte (lower Cambrian),

A394 EGU2012-1882

J. Vasiškova, E. Lukševičs, J. Stinkulis, and I. Zupiškis

Upper Devonian vertebrate taphonomy and sedimentology from the Klunas fossil site, Tervete Formation, Latvia

A395 EGU2012-73

O. Kossovaya

Climatic - biotic continuum - a few examples from the Pennsylvanian - Early Permian

A396 EGU2012-284

A. Lukeneder and S. Lukeneder

The Orthocellites beds - a case study on a Triassic mass-occurrence (Carnian, Taurus, Turkey)

A397 EGU2012-13185

L. Mander, W.M. Kürschner, and J.C. McElwain

Palynostratigraphy and vegetation history of the Triassic-Jurassic transition in East Greenland

A398 EGU2012-13359

M. Ruhl, C.V. Ullmann, W. Mette, and C. Korte

Carbon-cycle disturbances and environmental change preceding the end-Triassic mass extinction

A399 EGU2012-13928

J.H. Whiteside and M. Et-Touhami

Excursions in Stable Carbon Isotopes at the End-Triassic Mass Extinction: Eastern North America and Morocco

A400 EGU2012-11358

Y. Hautevelle, **Y. Lu**, and R. Michels

Tracing of palaeoenvironmental changes during Jurassic in the Paris Basin: contributions of organic geochemistry

A401 EGU2012-7647

S.A. Robinson, A. Walker, and T.C. Atkinson

What was the oxygen-isotopic composition of Jurassic precipitation?

A402 EGU2012-5736

R. Navarrete, J.P. Rodríguez, C.L. Liesa, and A.R. Soria

Preservation of dinosaur tracks beds in a synrift back-barrier system. Barremian Camarillas Formation, Galve sub-basin (northeast Spain)

A403 EGU2012-4228

U. Heimhofer, S. Burla, F. Oberli, C. Paulukat, J. L. Dinis, and H. Weissert

Sr isotope composition of low-Mg oyster shell calcite for stratigraphic assignment of Early Cretaceous near-shore deposits (Lusitanian Basin, Portugal)

A404 EGU2012-7263

C. Fay, S. Robinson, J. McElwain, S. Hesselbo, G. Pedersen, R. Barclay, K. Amor, and P. Bown

C-isotope stratigraphy of plant-rich, non-marine sediments: towards an integrated record of mid-Cretaceous carbon cycling

A405 EGU2012-7162

G. Hofer, M. Wagreich, E. Draganits, S. Neuhuber, M.L. Grundtner, and M. Bottig

Geochemistry of Upper Cretaceous non-marine - marine cycles (Gosau Group, Austria)

A406 EGU2012-7360

Y. Weber, **S. Voigt**, J. Pross, T. Voigt, and J. Kley

Continental climate dynamics prior to uplift of the Northern Tien Shan - the Oligocene-Miocene succession of the Ili Basin, southeastern Kazakhstan

- A407 EGU2012-4280
T. Matys Grygar, K. Mach, **T. Novakova**, and J. Laurin
Chemostratigraphy of lacustrine siliciclastics: how to process 200 m of monotonous mudstones (Most Basin, Czech Republic, Early Miocene)
- A408 EGU2012-6401
N.S. Davies, J.C. Gosse, and N. Rybczynski
Cross-stratified Wood: Enigmatic Woody Debris Deposits in Warm-Polar Fluvial Sediments (Pliocene Beaufort Formation, Nunavut)
- A409 EGU2012-8721
T. Laepple and G. Lohmann
Core-top calibrations cannot detect seasonality of marine temperature proxies

