**EGU 2008 Meeting Programme**

**Monday**

**CL0 Open Session on Climatology and Palaeoclimatology**

Convener: Rousseau, D.
Co-Convener(s): Sicre, M., Kiefer, T.
Lecture Room 13
Chairperson: N.N.

8:30–8:45; EGU2008-A-08295; CL0-1MO1O-001
Yao, FM; Zhang, Jh
The impacts of climate change on rice yields in China

8:45–9:00; EGU2008-A-10118; CL0-1MO1O-002
Matulla, C.; von Storch, H.
Storminess in Eastern Canada, Northern and Central Europe

9:00–9:15; EGU2008-A-01392; CL0-1MO1O-003
Sijp, W.; England, M.
The effect of a northward shift in the Southern Hemisphere westerlies on the global ocean

9:15–9:30; EGU2008-A-04612; CL0-1MO1O-004
Rimbu, N.; Lohmann, G.
Winter and summer blocking variability in the North Atlantic region. Evidence from long-term observational and proxy data from southwestern Greenland Winter and summer blocking variability in the North Atlantic region. Evidence from long-term observational and proxy data from southwestern Greenland

9:30–9:45; EGU2008-A-06678; CL0-1MO1O-005
Taricco, C.; Ghil, M.; Bernasconi, S. M.; Vivaldo, G.
Study of Mediterranean Climate Variability based on a high-resolution shallow-water Ionian Sea Core

9:45–10:00; EGU2008-A-06731; CL0-1MO1O-006
Kleinen, T.; Osborn, T.; Briffa, K.
Little Ice Age climate and the NAO

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2008-A-10447; CL0-1MO2O-001
Maher, B.A.
The Holocene East Asian monsoon.

10:45–11:00; EGU2008-A-05928; CL0-1MO2O-002
Mikolajewicz, U.
Simulating the Climate of the last Glacial

11:00–11:15; EGU2008-A-09533; CL0-1MO2O-003
Hays, J.
Antarctic Ocean stratification changes south of the Polar Front during the last glacial cycle

11:15–11:30; EGU2008-A-00927; CL0-1MO2O-004
Levermann, A.; Schewe, J.; Montoya, M.
Lack of bipolar see-saw in response to Southern Ocean wind reduction

11:30–11:45; EGU2008-A-09716; CL0-1MO2O-005
Merkel, U.; Frange, M.; Schulz, M.
Atmospheric circulation at the last glacial as simulated by a complex coupled general circulation model

11:45–12:00; EGU2008-A-11254; CL0-1MO2O-006
Machallett, B.; Oches, E.A.; Frechen, M.; Zöller, L.; Mavlyanova, N.G.; Hambach, U.; Markovic, S.B.; Endlicher, W.
Aeolian dust dynamics in Central Asia - driven by the long-term migration, seasonality and permanency of the Asiatic polar front

12:00 END OF SESSION

**CL0 Open Session on Climatology and Palaeoclimatology – Posters**

Convener: Rousseau, D.
Co-Convener(s): Sicre, M., Kiefer, T.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0139; EGU2008-A-00409; CL0-1MO5P-0139
Ye, W
Snowball termination and life evolution

XY0140; EGU2008-A-01327; CL0-1MO5P-0140
Masoodian, M
Temperature trends in Iran during the last half century

XY0141; EGU2008-A-01384; CL0-1MO5P-0141
Bisgin, H; Dalfes, H. N.
Parallel Clustering Algorithms with Application to Climatology

XY0142; EGU2008-A-01477; CL0-1MO5P-0142
Pichevin, L. E.; Reynolds, B. C.; Ganeshram, R. S; Cacho, I.
Resolving the Opal Paradox in the Glacial Eastern Equatorial Pacific: Implications for the Biological Pump of Carbon

XY0143; EGU2008-A-01557; CL0-1MO5P-0143
Falarz, M.
Wintertime centres of action of the atmosphere in the Northern Hemisphere: changes, interactions, influence on climate in Poland

XY0144; EGU2008-A-02215; CL0-1MO5P-0144
Scheifinger, H; Matulla, C; Wagner, S; Koch, E
Direct downscaling of phenological entry dates in Central Europe

XY0145; EGU2008-A-03907; CL0-1MO5P-0145
Ionita, M; Rimbu, N; Lohmann, G
Decadal variability of the Elbe river streamflow

XY0146; EGU2008-A-04555; CL0-1MO5P-0146
Grein, M.; Roth-Nebelsick, A.; Wilde, V.; Konrad, W.
Stomatal density of fossil laurel and myrtle leaves from the Messel Pit: Preliminary studies for the reconstruction of atmospheric CO2 and climate of the Middle Eocene

XY0147; EGU2008-A-06216; CL0-1MO5P-0147
Naafs, B.D.A; Stein, R.; Haug, G.H.
Short-term variability of surface-water characteristics in the Late Neogene North Atlantic Ocean: Preliminary results of a biomarker record from Site U1313
Prehistoric climate and human occupation in central Europe

Pech, D.; Faes, C.; Franke, M.; Kapińska, P.

Mid-Holocene circulation changes and Neoglacial activity

Groll, N.

Meridional energy transport in a AOGCM simulation for the last interglacial (125ka BP) and the last glacial inception (115kaBP)

XY0151; EGU2008-A-07783; CL0-1MO5P-0151

Eckart, D.; Lazar, R.

Temperature Observations in Dolines in the Northern Calcareous Alps, Styria, Austria

XY0152; EGU2008-A-07970; CL0-1MO5P-0152

Herold, M.; Lohmann, G.

Interglacial African hydrological cycle - an isotope modelling study

XY0153; EGU2008-A-08144; CL0-1MO5P-0153

Oliver, K.; Edwards, N.; Henderson, G.; Hoogakker, B.; Rickaby, R.

Tidal mixing, deep ocean carbon storage, and the marine delta-13C record of the Last Glacial Maximum

XY0154; EGU2008-A-08596; CL0-1MO5P-0154

Küttel, M.; Luterbacher, J.; Xoplaki, E.; Wanner, H.

Comparing the seasonal mean position, strength and seasonal variation of the Azores High and the Icelandic Low during the cold climate of the Dalton Minimum and the exceptional warmth in the late 20th century

XY0155; EGU2008-A-09066; CL0-1MO5P-0155

Srivastava, P

Interstratified clay minerals in loess-paleosols and polygenetic soils of the Himalayan foreland: A record of Late Quaternary enhanced monsoon precipitation

XY0156; EGU2008-A-09251; CL0-1MO5P-0156


Terrestrial environmental changes in southern Europe during the penultimate climatic cycle (marine isotope stages 6 and 7)

XY0157; EGU2008-A-09815; CL0-1MO5P-0157

Dubrovsky, M.; Svoboda, M.; Trnka, M.

Performance of interpolated weather generator in two regions: Nebraska vs. Czechia

XY0158; EGU2008-A-10094; CL0-1MO5P-0158

Rojas, M.; Moreno, P.I.

Mid-Holocene circulation changes and Neoglacial activity in the Southern Hemisphere mid-latitudes: insights from PMIP2 simulations.

XY0159; EGU2008-A-10369; CL0-1MO5P-0159

Cordeiro, R.; Turco, B.; Rodrigues, R.; Barbosa, M.; Seoane, J.; Siffedine, A.; Moura, M.; Oliveira, A.; Pinto, A.; Duran-Santos, D.; Simoes-Filho, D.; Geochemistry Program

Comparision between paleoenvironmental and land use changes records in brazilian amazonian ecosystems

XY0160; EGU2008-A-10593; CL0-1MO5P-0160

van den Bogaard, C.; Dunlo, C.; Baranov, B.; Georgeleit, K.

Kurile-Kamchatka and Aleutian Marginal Sea-Island Arch Systems: Geodynamic and Climate Interaction in Space and Time – A project presentation

XY0161; EGU2008-A-10997; CL0-1MO5P-0161

John, I.; Brandt, K.; Bergstrasser, A.; Goerlitz, J.; Grote, J.; Ryslavy, T.; Linke, C.; Endlicher, W.

Recent climate change recorded in avifauna dynamics in Brandenburg (Germany)

XY0162; EGU2008-A-11134; CL0-1MO5P-0162

McDonald, A. B.

Rapid climate change explained by the Tiamat Hypothesis

XY0163; EGU2008-A-09503; CL0-1MO5P-0163

Bouloubassi, I.; Masse, G.; Sicre, M.-A.; Ezat, U.; Mejanell, L.; Jacob, J.; Godfrey, G.

Ocean variability and biological changes off N. Iceland over the last millennium

CL19 Climate Extremes and Impacts

Chairperson: N.N.

13:30–13:45; EGU2008-A-02015; CL19-1MO3O-001

Pinto, J.G.; Zacharias, S.; Fink, A.H.; Leckebusch, G.C.; Ulbrich, U.

Factors contributing to the development of extreme North Atlantic cyclones and their relationship with the NAO

13:45–14:00; EGU2008-A-03777; CL19-1MO3O-002

Della-Marta, P.M.; Mathis, H.; Frei, C.; Liniger, M.A.; Kleinn, J.; Appenzeller, C.

Return period of wind storms over Europe in ERA-40

14:00–14:15; EGU2008-A-03331; CL19-1MO3O-003

Früh, B.; Feldmann, H.; Parnitz, H.-J.; Schädler, G.

Evaluation of heavy precipitation from regional climate simulations for south-west Germany

14:15–14:30; EGU2008-A-09754; CL19-1MO3O-004

Maraun, D.; Rust, H.W.; Osborn, T.J.

The annual cycle of UK daily precipitation extremes.

14:30–14:45; EGU2008-A-12292; CL19-1MO3O-005


Changes in large daily rainfall magnitude-frequency in Borneo and Peninsular Malaysia over the last hundred years

14:45–15:00; EGU2008-A-07086; CL19-1MO3O-006

Jacobit, J.; Rathmann, J.; Philipp, A.

Central European temperature and precipitation extremes in relation to large-scale atmospheric circulation types

15:00: COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2008-A-04603; CL19-1MO4O-001

Beniston, M.

Entering into the “greenhouse century”: recent Swiss record temperatures comparable to upper quantiles in a greenhouse climate

15:45–16:00; EGU2008-A-06380; CL19-1MO4O-002

Fischer, E.M.; Schär, C.

Factors contributing to the development of extreme North Atlantic cyclones and their relationship with the NAO

16:00–16:15; EGU2008-A-09066; CL19-1MO4O-003

Beniston, M.

Central European temperature and precipitation extremes in relation to large-scale atmospheric circulation types

16:15–16:30; EGU2008-A-02015; CL19-1MO4O-004

Fischer, E.M.; Schär, C.

Factors contributing to the development of extreme North Atlantic cyclones and their relationship with the NAO

16:30–16:45; EGU2008-A-03777; CL19-1MO4O-005

Della-Marta, P.M.; Mathis, H.; Frei, C.; Liniger, M.A.; Kleinn, J.; Appenzeller, C.

Return period of wind storms over Europe in ERA-40

16:45–17:00; EGU2008-A-03331; CL19-1MO4O-006

Früh, B.; Feldmann, H.; Parnitz, H.-J.; Schädler, G.

Evaluation of heavy precipitation from regional climate simulations for south-west Germany

17:00–17:15; EGU2008-A-09754; CL19-1MO4O-007

Maraun, D.; Rust, H.W.; Osborn, T.J.

The annual cycle of UK daily precipitation extremes.

17:15–17:30; EGU2008-A-12292; CL19-1MO4O-008


Changes in large daily rainfall magnitude-frequency in Borneo and Peninsular Malaysia over the last hundred years

17:30–17:45; EGU2008-A-07086; CL19-1MO4O-009

Jacobit, J.; Rathmann, J.; Philipp, A.

Central European temperature and precipitation extremes in relation to large-scale atmospheric circulation types

17:45–18:00; EGU2008-A-09066; CL19-1MO4O-010

Fischer, E.M.; Schär, C.

Factors contributing to the development of extreme North Atlantic cyclones and their relationship with the NAO

18:00–18:15; EGU2008-A-03777; CL19-1MO4O-011

Della-Marta, P.M.; Mathis, H.; Frei, C.; Liniger, M.A.; Kleinn, J.; Appenzeller, C.

Return period of wind storms over Europe in ERA-40

18:15–18:30; EGU2008-A-03331; CL19-1MO4O-012

Früh, B.; Feldmann, H.; Parnitz, H.-J.; Schädler, G.

Evaluation of heavy precipitation from regional climate simulations for south-west Germany

18:30–18:45; EGU2008-A-09754; CL19-1MO4O-013

Maraun, D.; Rust, H.W.; Osborn, T.J.

The annual cycle of UK daily precipitation extremes.
Heat waves in Serbia – the case of 2007
tosic, i.
unkasevic, m.
XY0172; EGU2008-A-04197; CL19-1MO5P-0173
plaut, G.
The increasing frequency of “Heatwave Regime”-like circulation patterns occurrence over western Europe: patent observations and fears about the future
xy0174; EGU2008-A-04661; CL19-1MO5P-0174
Tosic, I.; Unkasevic, M.; Savic, S.
Analysis of tropical days in Serbia
xy0176; EGU2008-A-06401; CL19-1MO5P-0176
Fischer, E.M.; SchäR, C.
Decomposing daily temperature variability into intraseasonal, interannual and cycle-induced variability
XY0177; EGU2008-A-02197; CL19-1MO5P-0177
Sterl, A.; Dijkstra, H.; Van Oldenborgh, G.J.; Hazeleger, W.; Severijns, C.
Extreme temperatures in climate projections
XY0178; EGU2008-A-08354; CL19-1MO5P-0178
cattiaux, J.; Vautard, R.; You, P.
European temperatures and atmospheric circulation during the fall 2006
XY0179; EGU2008-A-08440; CL19-1MO5P-0179
hirschi, J.; Merckelbach, L.; Hankin, R.
Spatio-temporal distribution of seasonal and annual temperature extremes in the NCar/NCEP reanalysis
XY0180; EGU2008-A-09193; CL19-1MO5P-0180
Selten, F.M.; Panja, D.; Hazeleger, W.; Dijkstra, H.
Probability of warm Summerdays in Europe in Relation to the large-scale Circulation
XY0181; EGU2008-A-09387; CL19-1MO5P-0181
Bartholy, J.; Pongracz, R.; Gelybo, GY.; Szabo, P.
Analysis of past and future trends of extreme temperature indices for the Carpathian basin
XY0182; EGU2008-A-10889; CL19-1MO5P-0182
Groisman, P.; Knight, R.; Karl, T.; Wehner, M.; Reynolds, R.; Razuvaev, V.; Zhai, P.
Changes in extreme events in the northern extratropics
XY0183; EGU2008-A-06236; CL19-1MO5P-0183
Trnka, M.; Hlavinka, P.; Mozny, M.; Brazdil, R.; Dobrovolny, P.; Stepanek, P.; Formayer, H.; Eitzinger, J.
How Realistic Are the Reported Drying Trends in the Central Europe during 20th Century?
XY0184; EGU2008-A-06253; CL19-1MO5P-0184
Hlavinka, P.; Trnka, M.; Hayes, M.; Dubrovsky, M.; Svoboda, M.; Eitzinger, J.; Balek, J.; Semeradova, D.; Bartosova, L.
Expected Effects of Regional Climate Change on the Soil Moisture Regimes in Central Europe and Central US
XY0185; EGU2008-A-06545; CL19-1MO5P-0185
Corti, T.; Muccione, V.; Kollner-Heck, P.; Seneviratne, S. I.
Past and future building damage from drought-induced soil subsidence
XY0186; EGU2008-A-08026; CL19-1MO5P-0186
Chernokulsky, A.V.; Mokhov, I.I.
Summer fire conditions changes in North Eurasian mid-latitudes from regional model simulations for the 21st century
XY0187; EGU2008-A-08902; CL19-1MO5P-0187
Leonelli, G.; Pelfini, M.
Influence of climate and climate anomalies on Norway spruce tree-ring growth at different altitude and on glacier responses: examples from the Central Italian Alps

XY0188; EGU2008-A-03323; CL19-1MO5P-0188
Rodrigo, F.S.; Aguilar, E.; Luna, M.Y.; Rasilla, D.; Brunet, M.; Sigüé, J.
An exploratory study of climatic extreme events in the Iberian Peninsula: statistical and dynamical characterization, and forcing factors (project EXPICA CGL2007-65546-C03/CLI)

XY0189; EGU2008-A-02940; CL19-1MO5P-0189
Baldi, M.; Coccimiglio, P.; Lanini, G.M.
Towards an assessment of heat stress risk: regionalization and classification of bioclimatic zones in Italy

XY0190; EGU2008-A-02846; CL19-1MO5P-0190
Nicholls, R. J.; Hanson, S.; Herweijer, C.; Patmore, N.; Hallegatte, S.; Corfee-Morlot, J.; Chateau, J.; Muir-Wood, R.
Ranking Port Cities with High Exposure and Vulnerability to Climate Extremes

CL21 Generality of climate models and their components (co-listed in AS & NP) – Posters
Convenor: Arritt, R.
Co-Conveners: Rockel, B., Williamson, D.
Display Time: Monday, 08:00–19:30

XY0191; EGU2008-A-07703; CL21-1MO5P-0191
Onol, B.; Unal, Y.S.; Kahraman, A.
Sensitivity analysis of regional climate model (RegCM3) over Turkey

XY0192; EGU2008-A-04693; CL21-1MO5P-0192
Krichak, S.O.; Alpert, P.; Kunin, P.
Transferability evaluation of the ICTP RegCM3 in simulations of European climate

XY0193; EGU2008-A-04210; CL21-1MO5P-0193
Bozkurt, D.; Sen, O.L.; Karaca, M.
Intercomparison of four regional climate models to observations in the Inter-Continental Transferability Study (ICTS)

XY0194; EGU2008-A-03295; CL21-1MO5P-0194
Rockel, B.; Geyer, B.; Jones, C.G.; Meinke, I.; Paquin, D.; Roads, J.; Zadra, A.
Intercomparison of results from four regional climate models to observations in the Inter-Continental Transferability Study (ICTS)

XY0196; EGU2008-A-01337; CL21-1MO5P-0198
Mendes, D.; Marengo, J.
Measuring projections of climate change skill: south America precipitation using IPCC models

XY0199; EGU2008-A-03170; CL21-1MO5P-0199
Güttel, H.; Jacob, D.
Modelling of extreme precipitation over the North Atlantic Ocean

15:00 END OF SESSION
Advanvnces in land-climate interactions for earth system models: The Community Land Model (CLM) experience (solicited)

9:00–9:15; EGU2008-A-04022; CL22-1MO1O-002
Alkama, R.; Kageyama, M.; Ramstein, G.; DeNoblet, N.; Friedlingstein, P.
6.2 The impacts of climate, CO2, LAI changes on the global runoff trend during the 20th and 21st century

9:15–9:30; EGU2008-A-08030; CL22-1MO1O-003
Weber, U.; Reichstein, M.; Chevallier, F.; Lehsten, V.; Kaduk, J.
Model intercomparison of African carbon balance using a new 28 year climate dataset

9:30–9:45; EGU2008-A-08036; CL22-1MO1O-004
Grimm, A.; Pal, J.; Giorgi, F.
The role of land-atmosphere interactions in the evolution of the summer monsoon rainfall in South America

9:45–10:00; EGU2008-A-01136; CL22-1MO1O-005
Hagemann, S.; Göttel, H.; Jacob, D.; Lorenz, P.; Roeckner, E.
Projected changes of the hydrological cycle over large European catchments as simulated by the MPI-M global and regional climate models

10:00–10:15; EGU2008-A-10413; CL22-1MO1O-006
Gestal-Souto, L.; Miguez-Macho, G.
A high resolution calculation of the climatology water table depth and the climatology soil moisture profile for Europe: does the water table matter?

10:15 COFFEE BREAK

Chairperson: VAN DEN HURK, B.

10:30–11:00; EGU2008-A-04973; CL22-1MO2O-001
Kerr, Y.
Soil moisture retrieval from space: how and what for (solicited)

11:00–11:15; EGU2008-A-04134; CL22-1MO2O-002
Taylor, C. M.; Garvert, M.; Harris, P. P.; Parker, D. J.
Observing soil moisture - precipitation feedbacks: a case study from the AMMA field campaign

11:15–11:30; EGU2008-A-01491; CL22-1MO2O-003
Santanello, J.A.; Peters-Lidard, C.D.; Kumar, S.
A Modeling and Observational Framework for Diagnosing Local Land-Atmosphere Coupling on Diurnal Time Scales

11:30–11:45; EGU2008-A-02810; CL22-1MO2O-004
Winter, JM; Eltahir, EAB
The sensitivity of latent heat flux to changes in the radiative forcing: A framework for comparing models and observations

11:45–12:00; EGU2008-A-09282; CL22-1MO2O-005
Wood, E.F.; Ferguson, C.R.; Albertson, J.D.
Multi-scale analysis of soil moisture estimation and its dynamical coupling to the lower atmosphere. (solicited)

12:00–12:15; EGU2008-A-03405; CL22-1MO5P-0206
Matthieu Guimberteau, MG; Katia Laval, KL; Alain Perrier, AP; Jan Polcher, JP
Simulation of soil moisture over the state of Illinois, by the land surface model ORCHIDEE using NLDAS forcing data: comparison with observations

12:15–12:30; EGU2008-A-08089; CL22-1MO5P-0206
Haarsma, R.; van den Hurk, B.; Selten, F.
Impact of southern and central European land surface heating induced by greenhouse warming on the atmospheric circulation

12:30–12:45; EGU2008-A-05613; CL22-1MO5P-0212
Mattinson, AP; Jan Polcher, JP
Assessment of soil-moisture memory in a limited-area seasonal prediction framework

12:45–13:00; EGU2008-A-08912; CL22-1MO5P-0213
Weber, U.; van den Hurk, B.; Seneviratne, S.I.
Assessment of soil-moisture memory in a limited-area seasonal prediction framework

13:00–13:15; EGU2008-A-07056; CL22-1MO5P-0211
Hohenegger, C.; Brockhaus, P.; Schär, C.
The soil-moisture precipitation feedback in cloud-resolving models

13:15–13:30; EGU2008-A-05036; CL22-1MO5P-0214
Ashon, H.; Taylor, C; Slingo, J.
The use of satellite data to improve land surface model simulations in soil moisture stressed conditions

13:30–13:45; EGU2008-A-01300; CL22-1MO5P-0215
Teuling, A.J.; Seneviratne, S.I.
Contrasting spectral changes limit albedo impact on land-atmosphere coupling during the 2003 European heat wave
XY0216; EGU2008-A-11444; CL22-1MO5P-0216
Mazzola, M.; Lanconelli, C.; Campanelli, M.; Lupi, A.; Vitale, V.; Tomasi, C.
Retrieval of the Earth’s surface reflectance over the Po Valley (Italy) from MISR data using a BRDF approach

XY0217; EGU2008-A-04564; CL22-1MO5P-0217
Pinty, B.; Lavergne, T.; Kaminski, T.; Gobron, N.; Taberner, M.
Partitioning the solar fluxes in forest canopies in the presence of snow

XY0218; EGU2008-A-06747; CL22-1MO5P-0218
Gornall, J.L.; Ineson, P; Huntley, B; Baxter, R
Towards a mechanistic understanding of current and future carbon dynamics in arctic tundra ecosystems

XY0219; EGU2008-A-07281; CL22-1MO5P-0219
O’Donnell, D.; Feichter, J.
Global modelling of secondary organic aerosols in present and future climates with the ECHAM5/HAM model

XY0220; EGU2008-A-02898; CL22-1MO5P-0220
Martynov, A.; Laprise, R.; Sushama, L.
Off-line lake water and ice simulations: a step towards the interactive lake coupling with the Canadian Regional Climate Model

XY0221; EGU2008-A-10312; CL22-1MO5P-0221
Kanamaru, H.; Kanamitsu, M.
Model Diagnosis of Nighttime Minimum Temperature Warming in Irrigated Cropland

XY0222; EGU2008-A-08390; CL22-1MO5P-0222
Karaca, M.; Ekici, A.; Sen, O.I.; Yesilnacar, I.; Kindap, T.
Irrigation induced climate change in Southeastern Turkey

XY0223; EGU2008-A-10338; CL22-1MO5P-0223
Alessandri, A.; Navarra, A.
On the coupling between vegetation and rainfall inter-annual anomalies: possible contributions to seasonal rainfall predictability over land areas

XY0224; EGU2008-A-08432; CL22-1MO5P-0224
Koffi, E.; Rayner, P.; Kaminski, T.; Scholze
Quantitative network design for biosphere model process parameters

XY0225; EGU2008-A-11418; CL22-1MO5P-0225
Kiang, NY; Aleinov, I; Ni-Meister, W; Moorcroft, PR; Koster, RD; Kharecha, P; Kim, Y; Yang, W; Puma, M
The Ent Dynamic Global Terrestrial Ecosystem Model (DGTEM) in the GISS GCM: Algorithms for mixed vegetation communities (cancelled)

XY0226; EGU2008-A-06687; CL22-1MO5P-0226
Ortu, E.; Klotz, S.; Brugiapaglia, E.; Siniscalco, C.; Caramiello, R.
Lapse rates-induced variations of the vegetation cover in the North-western Alps: a model for quantitative reconstruction from pollen data

XY0227; EGU2008-A-06474; CL22-1MO5P-0227
Hänssler, A.; Hagemann, S.; Jacob, D.
Determining southern Africas climate characteristics that are essential for the identification of the impacts of future land use change on the regional climate

XY0228; EGU2008-A-06861; CL22-1MO5P-0228
van der Molen, M.K.; van den Hurk, B.; Hazeleger, W.
Land Use and Climate Change, historic simulations with EC-EARTH

XY0229; EGU2008-A-07665; CL22-1MO5P-0229
Topay, M.; Cinar, I.
Determining of bioclimatic comfort structure of Suleyman Demirel University East Campuses situated in the back of Mediterranean Region.

XY0230; EGU2008-A-07993; CL22-1MO5P-0230
Korhola, A.; Kulmala, M.; Vesala, T.; Nyman, M.
Science Workshop on past, present and future climate change

CL30 Arctic and subarctic ocean circulation and climate change - natural and anthropogenic forcing (co-listed in CR)

Convener: Hald, M.
Co-Conveners(s): Kuijpers, A., Stein, R., Jungclaus, J., Sicre, M., Koc, N.
Lecture Room 26
Chairperson: KOC, N.
13:30–13:45; EGU2008-A-02123; CL30-1MO3O-001
Wanner, H.; Büttikofer, J.; Beer, J.; Joos, F.; Müller, S.
Holocene Bond Cycles – real or imaginary?
13:45–14:00; EGU2008-A-02761; CL30-1MO3O-002
Rühlemann, C.; Kies, J; Milzer, G
Holocene centennial to decadal-scale climate fluctuations in the Trondheimsfjord area
14:00–14:15; EGU2008-A-09664; CL30-1MO3O-003
Spie lhagen, RF; Hass, HC
The Holocene record of surface and bottom waters on the northern Yermak Plateau (Arctic Ocean)
14:15–14:30; EGU2008-A-06553; CL30-1MO3O-004
Ebbesen, H.; Kuijpers, A.; Seidenkrantz, M.-S.; Moros, M.; Lloyd, J.
Ocean circulation changes off (south) west Greenland since the Last Glacial Maximum – A summary of results from the Davis Strait Arctic Gateway project
14:30–14:45; EGU2008-A-03206; CL30-1MO3O-005
Wollenburg, J.E.; Mackensen, A.
Benthic foraminiferal biodiversity response to a changing Arctic palaeoclimate in the last 24,000years
14:45–15:00; EGU2008-A-07844; CL30-1MO3O-006
North Atlantic inflow and ice-coverage in the central Arctic Ocean: Neogene records from the Lomonosov Ridge.

15:00 COFFEE BREAK

Chairperson: SPIELHAGEN, R.
15:30–15:45; EGU2008-A-06443; CL30-1MO4O-001
Hofer, D.; Raible, C.C.; Stocker, T.F.
Ocean variability and connections to the atmosphere in an ensemble of 1500 to 2000 AD simulations
15:45–16:00; EGU2008-A-06281; CL30-1MO4O-002
Masse, G.; Belt, S.; Sicre, M.A.; Rowland, S.
Abrupt climate changes during the last millennium: evidence from high resolution sea ice reconstructions.
16:00–16:15; EGU2008-A-03623; CL30-1MO4O-003
Zhao, H.; Jungclaus, J.; Fiedrich, K.
Multidecadal variability of the Meridional Overturning Circulation as an air-sea coupled mode
16:15–16:30; EGU2008-A-07603; CL30-1MO4O-004

Modern benthic foraminifera responding to recent environmental changes in the Barents Sea

16:30–16:45; EGU2008-A-09668; CL30-1MO4O-005

Bauch, H.A.; Kassens, H.; Meyer, H.; Polyakova, Ye.; Rekant, P.
Alteration of submarine permafrost at the North Siberian continental margin

16:45–17:00; EGU2008-A-11259; CL30-1MO4O-006

Winkelmann, D.; Stein, R.; Schäfer, C.; Meckensen, A.
Events of enhanced terrigenous input to the Sophia Basin, Arctic Ocean

17:00 END OF SESSION

CL30 Arctic and subarctic ocean circulation and climate change - natural and anthropogenic forcing (co-listed in CR) – Posters

Convener: Hald, M.
Co-Convener(s): Kuijpers, A., Stein, R., Jungclaus, J., Sicre, M., Koc, N.
Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0231; EGU2008-A-07025; CL30-1MO5P-0231

Bartels-Jonsdóttir, H.B.; Knudsen, K.L.; Eiriksson, J.
Reconstruction of temperature and oceanography through the last 1000 years north of Iceland

XY0232; EGU2008-A-07128; CL30-1MO5P-0232

A 1,500 year ice core record of Akademii Nauk ice cap (Svernyaya Zemlya) – Long term changes of climate, environment and aerosols in the Central Russian Arctic

XY0233; EGU2008-A-09053; CL30-1MO5P-0233

Wilson, L.J.; Hald, M.; Husum, K.; Salomonsen, G.
Comparison and quantification of marine paleoclimatic trends of the last 2000 years from Arctic Norway

XY0234; EGU2008-A-06394; CL30-1MO5P-0234

Schmitt, T.; Kuijpers, A.; Seidenkrantz, M.-S.; Malmgren, B. A.
Internal ocean variability responsible for the Medieval Warm Period – Little Ice Age transition?

XY0235; EGU2008-A-05541; CL30-1MO5P-0235

A 4500-year record of Sea Surface Temperatures at decadal time scale in the North Atlantic core

XY0236; EGU2008-A-11947; CL30-1MO5P-0236

Hald, M.; Korsun, S.
The 8200 cal. year BP event reflected in the Arctic fjord Van Mijnenfjorden, Svalbard.

XY0237; EGU2008-A-12061; CL30-1MO5P-0237

Werner, K.; Spielhagen, R.F.; Hass, H.C.; Niessen, F.
Correlation of sediment cores with high Holocene time resolution from the western Svalbard margin

XY0238; EGU2008-A-05275; CL30-1MO5P-0238

Naughton, F.; Bourillet, J-F.; Sánchez Goñi, M. F.; Turon, J.-L.; Jouanneau, J.-M.
Long-term and millennial-scale climate variability in northwestern France during the last 8850 years

XY0239; EGU2008-A-06130; CL30-1MO5P-0239

Klitgaard-Kristensen, D.; Skirbekk, K.; Koc, N.; Rasmussen, T.L.
Changes in the flow of Atlantic water into Kongsfjorden, Svalbard, through the Holocene

XY0240; EGU2008-A-03718; CL30-1MO5P-0240

Knutz, P. C.; Ebbesen, H.; Christiansen, S.; Kuijpers, A.
Increased iceberg discharges from SW Greenland during the Allerød and early Holocene warm intervals: Implications for the Younger Dryas and 8.2 ka cooling events

XY0241; EGU2008-A-03264; CL30-1MO5P-0241

Lloyd, J.; Moros, M.; McCarthy, D.; Snowball, I.; Sandgren, P.; Kuijpers, A.
Deglaciation and palaeoceanographic evolution of the Disko Bay and Uummannaq area of West Greenland

XY0242; EGU2008-A-08127; CL30-1MO5P-0242

Ewertowski, M.; Szuman, I.
Sediments of ice-cored moraine landsystem, Ragnar glacier, Central Spitsbergen

XY0243; EGU2008-A-12062; CL30-1MO5P-0243

Van Nieuenhove, N.; Bauch, H.A.
Surface conditions and evolution of the Norwegian Sea during MIS 5e, based on dinoflagellate cyst assemblages

XY0244; EGU2008-A-12060; CL30-1MO5P-0244

Siliceous microfossil derived salinity changes in the early middle Eocene central Arctic

XY0245; EGU2008-A-09167; CL30-1MO5P-0245

Sakamoto, T.; Iijima, K.; Sugisaki, S.
High-resolution sea-ice and ocean circulation history during 18 Ma: upper 200 m core section obtained by IODP Expedition 302 (ACEX)

XY0246; EGU2008-A-01744; CL30-1MO5P-0246

Timmermann, A.; Okumura, Y.
The influence of a weakening of the Atlantic meridional overturning circulation on Pacific climate (cancelled)

XY0247; EGU2008-A-05168; CL30-1MO5P-0247

Semenov, V. A.; Latif, M.; Jungclaus, J. H.
Multicentury oscillation of the North Atlantic Thermohaline Circulation in a partially coupled AOGCM experiment

XY0248; EGU2008-A-05485; CL30-1MO5P-0248

von der Heydt, A.; Frankcombe, L.; Dijkstra, H.A.
Atlantic Multidecadal Variability in an ensemble of coupled climate model simulations

XY0249; EGU2008-A-01737; CL30-1MO5P-0249

Braun, H.; Ganopolski, A.; Ditlevsen, P.
Limitations of statistical standard methods in analysing Dansgaard-Oeschger events

XY0250; EGU2008-A-03106; CL30-1MO5P-0250

Hejkrlik, L.
Synodic variation of precipitation in the spotlight of different Dansgaard-Oeschger events

XY0251; EGU2008-A-03264; CL30-1MO5P-0251

Bartels-Jonsdóttir, H.B.; Knudsen, K.L.; Eiriksson, J.
Reconstruction of temperature and oceanography through the last 1000 years north of Iceland

XY0252; EGU2008-A-01737; CL30-1MO5P-0252

Sprovieri, M.; Pelosi, N.; Ferraro, L.
Secular variation in planktonic foraminiferal Tyrrhenian SSTs

XY0253; EGU2008-A-03106; CL30-1MO5P-0253

Hejkrlik, L.
Synodic variation of precipitation in the spotlight of different Dansgaard-Oeschger events

XY0254; EGU2008-A-03106; CL30-1MO5P-0254

Sprovieri, M.; Pelosi, N.; Ferraro, L.
Secular variation in planktonic foraminiferal Tyrrhenian SSTs
XY0252; EGU2008-A-11802; CL30-1MO5P-0252
Vieira, L.E.; Da Silva, L.; Guarineiri, F.
Evidences of the solar influence on the tropical Pacific atmospheric circulation during last fifty years in the southern hemisphere magnetic anomaly region

XY0253; EGU2008-A-11962; CL30-1MO5P-0253
Taldenkova, E.; Bauch, H.A.; Stepanova, A.; Pogodina, I.; Ovsyannik, Ya.; Nikolaev, S.; Kandiano, E.; Kassens, H.
Atlantic-derived water inflows and environmental changes of the western Laptev Sea continental margin during the last 17.5 cal.yrs

CL33 Production, flux and burial of silica, and the regulation of global (paleo)cycles – Posters

Convener: Romero, O.
Co-Convener(s): Crosta, X., Claquin, P.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0254; EGU2008-A-01412; CL33-1MO5P-0254
Stickley, C.E.; Koç, N.
The ACEX siliceous microfossils: middle Eocene biogenic silica production and preservation in the central Arctic

XY0255; EGU2008-A-11651; CL33-1MO5P-0255
Poljakova, Ye.; Stein, R.; Bauch, H.
Deposition of diatoms within “marginal filter zone” of the Eurasian Arctic Shelf Seas: implication for paleoenvironmental reconstructions

XY0256; EGU2008-A-03458; CL33-1MO5P-0256
Denis, D.; Crosta, X.; Schmidt, S.; Crespin, J.; Ther, O.; Billy, I.
Climate and productivity changes off Adélie Land (East Antarctica) during the Holocene: century to millennial timescales

XY0257; EGU2008-A-00982; CL33-1MO5P-0257
Dissolution of biogenic silica frustules of Southern Ocean diatoms at low temperatures

XY0258; EGU2008-A-07940; CL33-1MO5P-0258
Romero, O.E.; Rixen, T.; Herunadi, B.
Seasonal and Interannual Dynamics of the Diatom Productivity off Java, Indonesia

XY0259; EGU2008-A-00404; CL33-1MO5P-0259
Swann, GEA; Leng, MJ; Sloane, HJ
Possible vital effects in diatom oxygen isotopes

XY0260; EGU2008-A-06486; CL33-1MO5P-0260
Cardinal, D.; Chou, L.; Carbonnel, V.; André, L.
Si isotopic constraints on the Si cycle in a watershed under high anthropogenic pressure (Scheldt, Belgium)

XY0261; EGU2008-A-01146; CL33-1MO5P-0261
Desclés, J.; Vartanian, M.; Quinet, M.; Lopez, P.J.
Silica biominalization in diatoms: models and tools

XY0262; EGU2008-A-12283; CL33-1MO5P-0262
Claquin, P.; Clément-Larosière, B.; Véron, B.
Effects of Si limitation on cellular carbon fluxes and frustule composition in the marine diatom Skeletonema marinoi

XY0263; EGU2008-A-12285; CL33-1MO5P-0263
Soler, C.; Claquin, P.; Goutx, M.; Ragueneau, O.
Si-C interactions in the diatom frustule

CL39 Climate tracers for the present to the deep past: observations, models and proxies – Posters

Convener: Paul, A.
Co-Convener(s): Vance, D., Lohmann, G., Valdes, P., Ramstein, G.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0264; EGU2008-A-04240; CL39-1MO5P-0264
Risi, C.; Bony, S.
The distribution of water stable isotopes simulated in the present-day climate by the LMCDZ GCM

XY0265; EGU2008-A-03943; CL39-1MO5P-0265
Scrivner, A.E.; Pietrowski, A.M.; Elmore, A.C.; Wright, J.D.
Reconstructing past surface and deep water neodymium isotope compositions in the North Atlantic

XY0266; EGU2008-A-06435; CL39-1MO5P-0266
Outridge, P.; Sanet, H.; Stern, G.; Goodarzi, F.
The sedimentary profiles of mercury and pyrolysable organic carbon as a long-term recorder of aquatic primary productivity and springtime temperatures for Arctic lakes (cancelled)
XY0276; EGU2008-A-11176; CL39-1MO5P-0267
Lohmann, G.
Representativeness of paleoclimatic records: Large-scale climate modes

XY0268; EGU2008-A-10935; CL39-1MO5P-0268
Paul, A.; Kucera, M.
How to deal with uncertainty and the propagation of errors in a multi-proxy reconstruction of climate

XY0269; EGU2008-A-04979; CL39-1MO5P-0269
Seelos, K.; Sirocko, F.; Dietrich, S.
The reconstruction of wind directions for the Eifel region (Western Germany) during the period 45-15 ka BP

XY0270; EGU2008-A-11842; CL39-1MO5P-0270
Murakami, S.; Kitoh, A.
A coupled AOGCM simulation of the last glacial inception

XY0271; EGU2008-A-09384; CL39-1MO5P-0271
Leduc, G.; Vidal, L.; Cartapanis, Q.; Bard, E.
Modes of Eastern Equatorial Pacific thermocline variability: implications for ENSO dynamics over the last glacial period

XY0272; EGU2008-A-10602; CL39-1MO5P-0272
Precession pacing of 100-ky climatic cycles over the last 470 ky

XY0273; EGU2008-A-03688; CL39-1MO5P-0273
Karas, C.; Nürnberg, D.; Gupta, A.; Mohan, K.
The rapid constriction of the Indonesian Gateway across 3.4-3 Ma as a main contributing factor for global climate change

XY0274; EGU2008-A-11365; CL39-1MO5P-0274
Harwood, D.M.; Florindo, F.; Talarico, F.; Levy, R.H.; SMS Science Team
Initial results of ANDRILL's Southern McMurdo Sound Project drillcore AND-2A: early Miocene to Recent geological history of the Victoria Land Basin, Antarctica

XY0275; EGU2008-A-08631; CL39-1MO5P-0275
Roscher, M.R.
Permian climate development, new insights from numeric modelling based on a modified palaeogeography

XY0276; EGU2008-A-08858; CL39-1MO5P-0276
Berner, U.; Roscher, M.; Schneider, J.W.
Climate of the Late Palaeozoic – Insights from climate modeling and its implications for source and reservoir rocks

CL40 Climate Models Intercomparison: Dynamics and Physical Processes (co-listed in AS, NP & OS) – Posters

Convener: Lucarini, V.
Co-Convener(s): Kimoto, M., Van Ulden, A.
Display Time: Monday, 08:00–19:30

XY0277; EGU2008-A-11818; CL40-1MO5P-0277
Will, A.; Keuler, K.; Radtke, K.; Woldt, M.
Quality Control of a climate change ensemble simulation over Europe with the regional climate model COSMO-CLM

XY0278; EGU2008-A-04082; CL40-1MO5P-0278
Anders, I.; von Storch, H.; Rockel, B.
Analysis of near surface wind speed results from a multi model ensemble

XY0279; EGU2008-A-02811; CL40-1MO5P-0279
First super-high-resolution modeling study that the ancient "Fertile Crescent" will disappear in this century and comparison to regional climate models

XY0280; EGU2008-A-01649; CL40-1MO5P-0280
Pishvaei, M. R.; Lapin, M.
Regional Circulation Effects Reflected by Cyclonicity Indices over Eastern Mediterranean Sea

XY0281; EGU2008-A-02383; CL40-1MO5P-0281
Prömmel, K.; Geyer, B.; Jones, J.M.; Widmann, M.
Analysis of a high-resolution regional climate simulation for alpine temperature: validation and influence of the NAO

XY0282; EGU2008-A-01495; CL40-1MO5P-0282
de Jong, M.F.; Drijfhout, S.S.; Hazeleger, W.; van Aken, HM; Severijns, C.
Simulations of hydrographic properties in the north western North Atlantic Ocean in Global Climate Models

XY0283; EGU2008-A-03368; CL40-1MO5P-0283
Feldmann, H.; Fröh, B.; Schädler, G.; Panitz, H.-J.
Evaluation of the precipitation for south-west Germany from high resolution simulations with regional climate models

XY0284; EGU2008-A-03370; CL40-1MO5P-0284
Alvarez-Garcia, F. J.; Perez-Gonzalez, I.; CabosNarvaez, W.; OrtizBevia, M. J.
North Atlantic Decadal variability in the CMIP3 multimodel dataset

XY0285; EGU2008-A-04389; CL40-1MO5P-0285
Bender, F.; Ekman, A.; Rodhe, H.
Response to the eruption of Mount Pinatubo in relation to climate sensitivity in the CMIP3 models
Tuesday

CL2 Monthly, seasonal and decadal forecasting

13:30–13:45; EGU2008-A-11008; CL2-1TU3O-001

Cassou, C.
Madden-Julian Oscillation influence on North Atlantic weather regimes at medium-range timescales

13:45–14:00; EGU2008-A-06834; CL2-1TU3O-002

Douville, H.
Looking for improved seasonal predictions in the extratropics: what is the route?

14:00–14:15; EGU2008-A-03796; CL2-1TU3O-003

Della-Marta, P.M.; Liniger, M.A.; Appenzeller, C.
Predictability, return period and potential loss of European winter storms in seasonal forecast data

14:15–14:30; EGU2008-A-03555; CL2-1TU3O-004

DUBUS, L.; NOGAJ, M.; FISCHER, M.
Seasonal forecasts of electricity demand in France: a first evaluation using the DEMETER system.

14:30–14:45; EGU2008-A-09336; CL2-1TU3O-005

Boer, G.J.
Decadal-timescale potential predictability of precipitation and temperature and changes with climate change

14:45–15:00; EGU2008-A-07509; CL2-1TU3O-006

Keenlyside, N.; Latif, M.; Jungclaus, J.; Kornblueh, L.; Park, W.
Decadal prediction: Closing the gap between climate projections and seasonal forecasts

15:00 END OF SESSION

CL2 Monthly, seasonal and decadal forecasting – Posters

Convener: Doblas-Reyes, F.
Co-Conveners(s): Liniger, M., van Oldenborgh, G.
Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0114; EGU2008-A-03924; CL2-1TU5P-0114

Vintzileos, A.; Marchok, T.; Pan, H.-L.; Lord, S.J.
Prospects for subseasonal forecasting of Atlantic tropical cyclone activity

XY0115; EGU2008-A-00842; CL2-1TU5P-0115

Grimm, A.; Zilli, M.; Cavallanti, I.
Is the link between early and peak monsoon rainfall in South America reproduced in seasonal forecasts?

XY0116; EGU2008-A-03837; CL2-1TU5P-0116

Müller, W.A.; Keenlyside, N.; Latif, M.
Projections of seasonal climate forecast

XY0117; EGU2008-A-02642; CL2-1TU5P-0117

Benestad, R.E.; Senan, R.; Kindem, I.T.; Orsolini, Y.J.; Melsom, A.
Arctic influence and month-to-season scale predictability over northern Europe

XY0118; EGU2008-A-03921; CL2-1TU5P-0118

Ionita, M.; Lohmann, G.; Rimbu, N.
Prediction of spring Elbe discharge based on stable teleconnections with winter global temperature and precipitation

XY0119; EGU2008-A-10461; CL2-1TU5P-0119

Seasonal predictions at INGV-CMCC: Sensitivity to the improvement in ocean initial conditions.

XY0120; EGU2008-A-11664; CL2-1TU5P-0120

Fallah-GH, GH-A; Habibi, M.; Mosavi, M.
Using artificial neural network (ANN) for seasonal rainfall forecasting based on tele-connection patterns

XY0121; EGU2008-A-06736; CL2-1TU5P-0121

Losada, T.; Rodriguez-Fonseca, B.; Garcia-Serrano, J.; Mechoso, C.R.; Mohino, E.
West African rainfall response to SST anomalies in the equatorial Atlantic

XY0122; EGU2008-A-06675; CL2-1TU5P-0122

Orsolini, Y.; Kvamsnes, N.; Sorteberg, A.
Impact of snow cover on inter-annual variability of the NH winter circulation in an ensemble GCM simulation forced by satellite observations

XY0123; EGU2008-A-07463; CL2-1TU5P-0123

Olaka, L.; Trauth, M.; Roessner, S.; Zehe, E.
Climate variability over the Central Kenyan Rift: Data quality assessment and use.
CL4 Consequences of Geo-engineering and Mitigation as strategies for responding to anthropogenic greenhouse gas emissions

Convener: Tilmes, S.
Co-Convener(s): Rasch, P., Keith, D.
Lecture Room D
Chairperson: TILMES, S.
10:30–11:00; EGU2008-A-11399; CL4-ITU2O-001
Caldeira, K.
Geoengineering Earth’s Energy Budget: An Overview (solicited)

11:00–11:15; EGU2008-A-10542; CL4-ITU2O-002
Nakicenovic, N.
Mitigation costs and benefits from a global perspective (solicited)

11:15–11:30; EGU2008-A-06887; CL4-ITU2O-003
Salter, S H
Sea-going hardware for Latham’s albedo control. (solicited)

11:30–11:45; EGU2008-A-05580; CL4-ITU2O-004
Mills, M.J.; Toon, O.B.; Garcia, R.R.
Microphysical studies of climate mitigation via increased OCS emission (solicited)

11:45–12:00; EGU2008-A-12210; CL4-ITU2O-005
Wingenter, O.W.; Moore, J.; Elliot, S.M.; Blake, D.R.
Reversing sea level rise by enhancing the natural sulfur cycle

12:00 END OF SESSION
Hoek, WZ
by sedimenting sulfur aerosol.

Geoengineering side effects: Heating the tropical tropopause
Luo, B.P.; Schraner, M.; Rozanov, E.
Geoengineering side effects: Heating the tropical tropopause
Kenzelmann, P.; Peter, T.; Fueglistaler, S.; Weisenstein, D.;
Luo, B.P.; Schraner, M.; Rozanov, E.
Geoengineering side effects: Heating the tropical tropopause
Luo, B.P.; Schraner, M.; Rozanov, E.
Geoengineering side effects: Heating the tropical tropopause
Kenzelmann, P.; Peter, T.; Fueglistaler, S.; Weisenstein, D.;
Svensson, A.; Vintner, B.
Added value to the Greenland ice core records: Status of the
GICC05 time scale effort
8:30–8:45; EGU2008-A-05760; CL9-1TU10-001
Johnsen, S.; Seiersted, I.K.; Steffensen, J.P.;
Svensson, A.; Vintner, B.
Added value to the Greenland ice core records: Status of the
GICC05 time scale effort
8:30–8:45; EGU2008-A-05760; CL9-1TU10-001
Johnsen, S.; Seiersted, I.K.; Steffensen, J.P.;
Svensson, A.; Vintner, B.
Added value to the Greenland ice core records: Status of the
GICC05 time scale effort
8:30–8:45; EGU2008-A-05760; CL9-1TU10-001
Johnsen, S.; Seiersted, I.K.; Steffensen, J.P.;
Svensson, A.; Vintner, B.
8:45–9:00; EGU2008-A-07231; CL9-1TU10-002
Glacier reaction to large-scale climatic change during
Termination 1 in the European Alps - age and climatic
significance
9:00–9:15; EGU2008-A-09734; CL9-1TU10-003
Blockley, S.P.E.; Lane, C.S.; Lotter, A.; Lowe, J.J.; Pollard, A.M.;
Pynne-O'Donnell, S.D.F.
The potential for synchronising North Atlantic records using
the Vedde Ash as a marker event
9:15–9:30; EGU2008-A-10905; CL9-1TU10-004
Deschamps, P.; Durand, N.; Bard, E.; Hamelin, B.;
Camoin, G.; Thomas, A.L.; Henderson, G.; Yokoyama, Y.
Deglacial Melt Water Pulse 1A revisited from the new IODP
Tahiti record
9:30–9:45; EGU2008-A-06982; CL9-1TU10-005
Lourantou, A.; Lavric, J. V.; Köhler, P.; Barnola, J.-M.;
Michel, E.; Paillard, D.; Raynaud, D.; Chappellaz, J.
A detailed atmospheric carbon isotopic constraint on the
causes of the deglacial CO2 increase
9:45–10:00; EGU2008-A-06727; CL9-1TU10-006
Walden, J.; Peters, C.; Austin, WEN; Millar, I.L.;
Wadsworth, E.
Modelling changes in ice-rafted debris sources through
Heinrich Event 2 and Heinrich Event 1 on the NW European
continental slope using environmental magnetic, radiogenic
isotope and X-ray diffraction analysis of marine sediments.
10:00 END OF SESSION

CL9 Integration of ice core, marine and terrestrial
records from the last deglaciation – Posters

Convener: Hoek, W.
Co-Convener(s): Rasmussen, S., Kuudsen, K.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0147; EGU2008-A-11032; CL9-1TU5-00147
Hoek, WZ
Integration of ice core, marine and terrestrial records

XY0148; EGU2008-A-09905; CL9-1TU5-00148
Fletcher, W.J.; Naughton, F.; Sanchez Goñi, M.F.; Cortijo, E.;
Peyron, O.; Turon, J.-L.
Direct correlation of marine and terrestrial responses to rapid
climatic variability during the last deglaciation in the
Atlantic and Mediterranean sectors of the Iberian Peninsula

XY0149; EGU2008-A-08601; CL9-1TU5-00149
Kotchhoff, U.; Müller, U.C.; Pross, J.; Schmiedl, G.; van de
Schootbrugge, B.
Vegetation and climate dynamics in the borderlands of
the Aegean Sea during the last deglaciation deduced from
marine and terrestrial pollen records

XY0150; EGU2008-A-06250; CL9-1TU5-00150
Kwiecien, O.; Arz, H. W.; Lamcy, F.; Plessen, B.; Bahr, A.;
Haug, G. H.
The last deglaciation as recorded in the western Black Sea:
a multi-proxy approach

XY0151; EGU2008-A-12160; CL9-1TU5-00151
MacLeod, A.; Lowe, J.J.; Rose, J.; Walker, M.J.C; Merrit, J.
Chronology and correlation of Last Termination events using
tephra isochrons

XY0152; EGU2008-A-12156; CL9-1TU5-00152
Simonarson, L.
Lateglacial and Holocene palaeoceanographic events in the
Iceland Sea: Tephrochronology and AMS 14C dating
resolving temporal changes in marine reservoir ages in the
northern North Atlantic

XY0153; EGU2008-A-05911; CL9-1TU5-00153
Clark, J.; McCabe, A.M.; Clark, P.U.; Bowen, D.Q.
The last deglaciation of the Irish Ice Sheet

XY0154; EGU2008-A-07414; CL9-1TU5-00154
Knudsen, K.L.; Ghysels, I.P.; Eriksson, J.; Jansen, E.
Lateglacial and early Holocene oceanography off North
Iceland: foraminifera and stable isotopes

XY0156; EGU2008-A-12157; CL9-1TU5-00156
Palmer, A.; MacLeod, A.; Lowe, J.; Rose, J.
Climate forcing of glaciolacustrine sedimentation in Scotland
during GS-1

XY0157; EGU2008-A-09733; CL9-1TU5-00157
Rother, H.; Fink, D.; Schulmeister, J.; Evans, M.; Mifsud, C.;
10Be / 26Al exposure age chronologies from mid-latitude
Southern Hemisphere glacial sequences in the Southern
Alps, New Zealand

XY0158; EGU2008-A-00640; CL9-1TU5-00158
Anselmetti, F; Ariztegui, D; Grzesik, D; Mueller, A.
Paleoclimate of lowland Central America during the last
deglaciation

CL12 Mediterranean climate variability and change

Convener: Lionello, P.
Co-Convener(s): Tsimplis, M., Goodess, C.
Lecture Room 26
Chairperson: LIONELLO, P.

8:30–8:45; EGU2008-A-02032; CL12-1TU1O-001
Giorgi, F.; Coppola, E.
The European Climate-change Oscillation (ECO) (solicited)
8:45–9:00; EGU2008-A-00575; CL12-1TU1O-002
Mediterranean Sea freshwater budget evolution through glacial and interglacial times

9:00–9:15; EGU2008-A-11159; CL12-1TU1O-003
Winter Mediterranean temperature and precipitation back to 1750; the large-scale sea level pressure influence

9:15–9:30; EGU2008-A-02587; CL12-1TU1O-004
Nissen, K. M.; Ulbrich, U.; Leckebusch, G. C.; Pinto, J.
Categories of Mediterranean cyclones in the ERA40 dataset - characteristics, trends and links to large-scale patterns.

9:30–9:45; EGU2008-A-01913; CL12-1TU1O-005
Zampieri, M.; Lionello, P.
A statistical model for potential natural vegetation, application to Mediterranean climate

9:45–10:00; EGU2008-A-03435; CL12-1TU1O-006
Hertig, E.; Jacobbeit, J.
Lagged correlations of sea surface temperature regimes and Mediterranean climate variables

10:00 COFFEE BREAK

Chairperson: GOODESS, C.

10:30–10:45; EGU2008-A-12254; CL12-1TU2O-001
Navarra, A.
The CIRCE project (solicited)

10:45–11:00; EGU2008-A-02023; CL12-1TU2O-002
Raible, C.C.; Saaroni, H.; Ziv, B.; Wild, M.
Winter synoptic-scale variability over Mediterranean basin under future climate utilizing ECHAM5

11:00–11:15; EGU2008-A-02260; CL12-1TU2O-003
Pinto, J.G.; Ulbrich, S.; Rudari, R.; Parodi, A.; Boni, G.; Ulbrich, U.
Extreme precipitation events over the Western Mediterranean: statistical characteristics and links to ex-hurricane activity over the North Atlantic

11:15–11:30; EGU2008-A-03819; CL12-1TU2O-004
Lucas, M. A.; Somot, S.
Spatial Distribution of the 21st century Climate Change signal in the Mediterranean

11:30–11:45; EGU2008-A-06586; CL12-1TU2O-005
Li, L.
Sensitivity of a regional Mediterranean climate model to the lateral and lower boundary conditions

11:45–12:00; EGU2008-A-00116; CL12-1TU2O-006
Marcos, M.; Tsimplis, M.N.
Future projections in the Mediterranean Sea under global warming scenarios

12:00 END OF SESSION

8:45–9:00; EGU2008-A-00575; CL12-1TU1O-002
Mediterranean Sea freshwater budget evolution through glacial and interglacial times

9:00–9:15; EGU2008-A-11159; CL12-1TU1O-003
Winter Mediterranean temperature and precipitation back to 1750; the large-scale sea level pressure influence

9:15–9:30; EGU2008-A-02587; CL12-1TU1O-004
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Spatial Distribution of the 21st century Climate Change signal in the Mediterranean

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Li, L.
Sensitivity of a regional Mediterranean climate model to the lateral and lower boundary conditions

11:45–12:00; EGU2008-A-00116; CL12-1TU2O-006
Marcos, M.; Tsimplis, M.N.
Future projections in the Mediterranean Sea under global warming scenarios

12:00 END OF SESSION
XY0171; EGU2008-A-06980; CL12-1TU5P-0171
Kostopoulou, E.; Tolika, K.; Tegoulias, I.; Anagnostopoulou, C.; Maheras, P.; Giannakopoulos, C.
Regional climate model temperature simulations compared with observed station data over the Balkan Peninsula

XY0172; EGU2008-A-09926; CL12-1TU5P-0172
Bartolini, E.; D’Odorico, P.; Claps, P.
Interannual variability of winter precipitation in the European Alps: relations with the North Atlantic Oscillation

XY0173; EGU2008-A-06536; CL12-1TU5P-0173
Brunet, M.; Kuglitsch, F.G.; Baddour, O.; The MEDARE Community
The WMO/MEDARE An Initiative for the development of a high quality climate instrumental dataset for the Greater Mediterranean Region

XY0174; EGU2008-A-05039; CL12-1TU5P-0174
Herrmann, M.J.; Somot, S.
Relevance of ERA40 dynamical downsampling for modelling deep convection in the Mediterranean sea

XY0175; EGU2008-A-07903; CL12-1TU5P-0175
Herrmann, M.; Bouffard, J.; Marcos, M.; Tsimpolis, M.; Ullmann, A.
Monitoring deep convection in the Mediterranean Sea: a multi-sensor approach

XY0176; EGU2008-A-00117; CL12-1TU5P-0176
Marcos, M.; Tsimpolis, M.N.
Coastal sea level trends in Southern Europe

XY0177; EGU2008-A-03457; CL12-1TU5P-0177
Müller, M.; Leckebusch, G.C.; Ulbrich, U.; Nissen, K.M.
Red Sea Trough occurrence and related extreme events under future climate conditions

XY0178; EGU2008-A-02875; CL12-1TU5P-0178
Lionello, P.; Galati, M.B.
Links between the north hemisphere teleconnection patterns and the significant wave height in the Mediterranean Sea

XY0179; EGU2008-A-02876; CL12-1TU5P-0179
Lionello, P.; Ferrara, E.
Comparing the cyclones in the Mediterranean and in the North Atlantic

XY0180; EGU2008-A-03799; CL12-1TU5P-0180
Salameh, T.; Drobinski, P.; Dubos, T.
On nudging time optimization in regional climate modelling: application to the Mediterranean basin

XY0181; EGU2008-A-08266; CL12-1TU5P-0181
Salameh, T.; Drobinski, P.
Extreme climatic events and North Atlantic weather regimes: uncertainty assessment using ERA-40 and NCEP re-analyses

XY0182; EGU2008-A-02572; CL12-1TU5P-0182
Palatella, L.; Paradisi, P.; Miglietta, M.; Lionello, P.
Statistical downscaling of seasonal precipitation on different Mediterranean regions

XY0183; EGU2008-A-07686; CL12-1TU5P-0183
Tomozeiu, R.; Pavan, V.; Cacciamani, C.
Climate change scenarios for surface temperature and precipitation in Northern Italy obtained using statistical downscaling models

XY0184; EGU2008-A-03238; CL12-1TU5P-0184
Krichak, S.O.; Alpert, P.; Kunin, P.
Downscaling results of SRES experiment with the ECHAM5/MPI-OM1 GCM over the eastern Mediterranean region

XY0185; EGU2008-A-03556; CL12-1TU5P-0185
Elizalde, A.; Göttel, H.; Jacob, D.
Influence of Boundaries on Regional Climate Precipitation Modelling

XY0186; EGU2008-A-00159; CL12-1TU5P-0186
Rogerson, M.; Cacho, I.; Jimenez-Espejo, F.; Reguera, M.; Siervo, F.; Martinez-Ruiz, F.; Frigola, J.; Canals, M.
A dynamic explanation for the origin of the western Mediterranean organic rich layers

XY0187; EGU2008-A-04026; CL12-1TU5P-0187
Khelifi, N.; Sarntel, M.; Frank, M.; Weintelt, M.; Andersen, N.; Garbe-Schönberg, D.
Pliocene changes in the Mediterranean Outflow (3.6 – 2.5 Ma)

CL13 Large-scale climate modes in the Northern Hemisphere
Convener: Christiansen, B.
Co-Conveners: Ulbrich, U., Rimbu, N., Kwasniok, F.
Lecture Room 14
Chairperson: CHRISTIANSEN B.
Doblas-Reyes, F.J.
Seasonal-to-interannual dynamical prediction of large-scale climate modes

13:45–14:00; EGU2008-A-07076; CL13-1TU3O-002
Rodriguez-Puebla, C.; Nieto, S.
Trend of the North Atlantic Oscillation (NAO) under climate change

14:00–14:15; EGU2008-A-02024; CL13-1TU3O-003
Iglesias, I.; Lorenzo, M.N.; Taboada, J.J.; Gomez-Gesteira, M.
Influence of the North Atlantic sea surface temperature on the teleconnection patterns

14:15–14:30; EGU2008-A-08238; CL13-1TU3O-004
Caballero, R.; Hanley, J.
Intense midlatitude storms and their relationship to teleconnection patterns in the Northern Hemisphere

14:30–14:45; EGU2008-A-02471; CL13-1TU3O-005
Are Northern Hemisphere teleconnection patterns stable over the last 500 yr?

14:45–15:00; EGU2008-A-03220; CL13-1TU3O-006
Ambaum, M.
Unimodality of Wave Amplitude in the Northern Hemisphere

15:00 END OF SESSION

CL13 Large-scale climate modes in the Northern Hemisphere – Posters
Convener: Christiansen, B.
Co-Conveners: Ulbrich, U., Rimbu, N., Kwasniok, F.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: RIMBU N.

XY0188; EGU2008-A-11503; CL13-1TU5P-0188
Osprey, S.; Gray, L.
On the significance of persistence timescales in geophysical timeseries.
XY0189; EGU2008-A-03583; CL13-1TU5P-0189
Pisoft, P
Spatial distribution and temporal evolution of distinct periodicities detected in NAO index

XY0190; EGU2008-A-06369; CL13-1TU5P-0190
Christiansen, B.
Is the atmosphere interesting? A projection pursuit study

XY0191; EGU2008-A-06746; CL13-1TU5P-0191
Demuzere, M.; Van Lipzig, N.P.M
The link between weather type classifications and large scale climate modes in the NH: An Application and its Opportunities.

XY0192; EGU2008-A-12028; CL13-1TU5P-0192
Piecha, K; Krüger, A; Ulbrich, U
An objective classification scheme for Central Europe and its Application on AOGCMs

XY0193; EGU2008-A-11996; CL13-1TU5P-0193
Dima, M.; Lohmann, G.
A deterministic mechanism for the Atlantic multidecadal variability

XY0194; EGU2008-A-03343; CL13-1TU5P-0194
Andrade, C.; Santos, J.; Corte-Real, J.
Climate-mean winter and summer patterns associated with enthalpy, latent heat and linear momentum mean convergence fields due to large-scale transient eddies

XY0195; EGU2008-A-01762; CL13-1TU5P-0195
Khon, V.Ch.; Latif, M.; Keenlyside, N.; Park, W.; Semenov, V.; Müller, W.
Understanding Common Aspects and Interactions between ENSO and the NAO (solicited)

XY0196; EGU2008-A-08379; CL13-1TU5P-0196
Reichler, T.
Decadal Trends in the Width of the Tropical Belt

XY0197; EGU2008-A-11977; CL13-1TU5P-0199
Ionita, M.; Rimbu, N.
Dominant mode of Northern Hemisphere blocking variability during winter and its relation with temperature and sea surface temperature anomalies

XY0198; EGU2008-A-12159; CL13-1TU5P-0198
Körper, J.; Spangehl, T.; Huebener, H.; Cubasch, U; Ulbrich, U
Changes of the NAO in projections of future climate under increasing GHG-concentrations and stabilization thereafter

XY0199; EGU2008-A-00733; CL14-1TU5P-0202
Patara, L.; Vichi, M.; Masina, S.; Fogli, P.G.; Manzini, E.
Bio-optical feedbacks in the coupled climate system of the tropical Pacific

XY0200; EGU2008-A-01358; CL14-1TU5P-0203
Dominguez, D.; Latif, M
Generation of Global Hyper Climate Modes
Remote impact on Tropical Atlantic climate variability

Understanding El Niño in Ocean-Atmosphere General Circulation Models: progress and challenges

The response of the winter NAO to CO2, SST and sea ice

The role of land - atmosphere interaction in North Atlantic circualtion variability patterns

Local and remote impacts of anomalous tropical Atlantic freshwater input

Biologically induced circulation changes in the tropical Pacific as simulated with eddy-resolving coupled ocean-ecosystem model

The response of the winter NAO to CO2, SST and sea ice changes

The role of land - atmosphere interaction in North Atlantic Oscillation variability

Projected changes in tropical climate by ECHAM5/MPI-OM

What defines climate model performance and skill?

Global warming abrupt warming after a shutdown of all emissions

Transformation of observed time series for climate change impact assessment

Challenges of regional climate modeling and validation (solicited)

Probabilistic climate predictions for the United Kingdom and the World

Uncertainty in Climate Impacts under Stabilization Scenarios (solicited)

Is the Climate Sensitivity Even More Uncertain?

Understanding the influence of ENSO on the North Pacific variability

Uncertainty of decadal means of temperature and precipitation across Poland.

The influence of the North Atlantic Oscillation on temperature and precipitation across Poland.

Teleconnectivity in the Northern Hemisphere wintertime circulation variability patterns

Influence of the Indian and Western Pacific oceans warming on the North Atlantic weather regimes estimated from a multi-model ensemble

Understanding the influence of ENSO on the North Pacific variability

Is the observed NAO variability during the instrumental period unusual?

Projected changes in tropical climate by ECHAM5/MPI-OM

Multidecadal variability of the MOC and its influence on the atmosphere in the IPSL model

Understanding El Niño in Ocean-Atmosphere General Circulation Models: progress and challenges

Local and remote impacts of anomalous tropical Atlantic climate variability

Projected changes in tropical climate by ECHAM5/MPI-OM

Biologically induced circulation changes in the tropical Pacific as simulated with eddy-resolving coupled ocean-ecosystem model

Remote impact on Tropical Atlantic climate variability

Understanding El Niño in Ocean-Atmosphere General Circulation Models: progress and challenges

The response of the winter NAO to CO2, SST and sea ice

The role of land - atmosphere interaction in North Atlantic circualtion variability patterns

Local and remote impacts of anomalous tropical Atlantic freshwater input

Biologically induced circulation changes in the tropical Pacific as simulated with eddy-resolving coupled ocean-ecosystem model

The response of the winter NAO to CO2, SST and sea ice changes

The role of land - atmosphere interaction in North Atlantic Oscillation variability

Projected changes in tropical climate by ECHAM5/MPI-OM
XY0222; EGU2008-A-12027; CL20-1TU5P-0222
Zermoglio, M.; Stainforth, D.; Downing, T.
The Climate Change Explorer - Facilitating understanding of long-term climate forecasts for screening adaptation strategies and actions

XY0223; EGU2008-A-08673; CL20-1TU5P-0223
Mahlstein, I.; Knutti, R.
Weighting climate models for regional projections

XY0224; EGU2008-A-09332; CL20-1TU5P-0224
Forest, C.E.; Sansó, B.
On estimating probability distributions for climate system properties: exploring sensitivity to unforced climate variability from AGCM control simulations

XY0225; EGU2008-A-11714; CL20-1TU5P-0225
Tebaldi, C.; Lobell, D.B.
Short-term projections of changes in crop yields at the global scale related to climate change (cancelled)

XY0226; EGU2008-A-11736; CL20-1TU5P-0226
Daron, J.; Stainforth, D.
Shadowing Techniques for the Evaluation and Interpretation of Climate Models

XY0227; EGU2008-A-11375; CL20-1TU5P-0227
Dubrovsky, M.
Climate change scenarios in terms of the weather generator parameters

XY0228; EGU2008-A-07185; CL20-1TU5P-0228
Brugger, K.; Rubel, F.
Predicting the dynamics of infectious diseases according to climate change

XY0229; EGU2008-A-06262; CL20-1TU5P-0229
Trnka, M.; Dubrovsky, M.; Hlavinka, P.; Semeradová, D.; Štuky,
P.; Eitzinger, J.; Formayer, H.; Žalud, Z.
Projection of Uncertainties of the Climate Change Scenarios into the Estimates of Future Agrometeorological Conditions and Crop Yields

XY0230; EGU2008-A-01545; CL20-1TU5P-0230
Ayanlade, A.; Ekanade, O.; Oramoogunje, O.O.
Geospatial Analysis of Potential Climate Change Impacts on Coastal Urban Settlements of Nigeria for The 21st Century

XY0231; EGU2008-A-01336; CL20-1TU5P-0231
Mendes, D.; Marengo, J.
Improving downscaling: South America rainfall

CL.25 EPICA and the climate of the last million years (including Hans Oeschger Medal Lecture) (co-listed in CR)

Convener: Fischer, H.
Co-Convener(s): Wolff, E., Raynaud, D.
Lecture Room 13
Chairperson: FISCHER, H.

10:30–11:15; EGU2008-A-12415; CL25-1TU2O-001
Raynaud, D.
The fascination of air bubbles in ice (Hans Oeschger Medal Lecture) (solicited)

Comparison between eight glacial cycles recorded at Antarctic EPICA ice core and Serbian loess

11:30–11:45; EGU2008-A-05940; CL25-1TU2O-003
Towards a new radiometrically dated North Atlantic paleoclimate record covering the last million years: preliminary results from Corchia Cave speleothems, Italy

11:45–12:00; EGU2008-A-10040; CL25-1TU2O-004
Martinez-Garcia, A.; Rosell-Mele, A.; Geibert, W.; Masqué, P.; Gersonde, R.
A marine perspective of EPICA ice records: links between atmospheric circulation, marine productivity, sea ice and CO2 over the last 1.1 Myrs

12:00 LUNCH BREAK

Chairperson: WOLFF, E.

Goto-Azuma, K.; Members of the Dome Fuji Ice Core Research Group, ICG
Millennial-scale climate variability during the past 720,000 years recorded in the Dome Fuji ice core

13:45–14:00; EGU2008-A-07575; CL25-1TU3O-002
Holden, P.; Edwards, N.; Wolff, E.
Transient simulations over the EPICA record using GENIE-1

14:00–14:15; EGU2008-A-12410; CL25-1TU3O-003
Vallelonga, P.; Martel, A.; Gabrieli, F.; Rosman, J.K.R.; Barbante, C.; Hong, S.; Boutron, C.F.
Climate related variations in Pb and Ba concentrations and Pb isotopes over seven glacial cycles in the EPICA Dome C ice core

14:15–14:30; EGU2008-A-07440; CL25-1TU3O-004
Schilt, A.; Blunier, T.; Chappellaz, J.; Spahni, R.; Stocker, T.
Nitrous Oxide Records of the Last 800,000 Years

14:30–14:45; EGU2008-A-03322; CL25-1TU3O-005
Luebli, D.; Stocker, T. F.; Raynaud, D.; Barnola, J.-M.
Fast Antarctic temperature variations imprint in the CO2 concentration? A high-resolution CO2 record over the last glacial period

14:45–15:00; EGU2008-A-11308; CL25-1TU3O-006
Lohmann, G.; Butzin, M.
CO2 leads global temperature: Analysis of ice core and marine sediment data in combination with the modelling of marine reservoir ages for the last deglaciation

15:00 COFFEE BREAK

Chairperson: RAYNAUD, D.

15:30–15:45; EGU2008-A-01728; CL25-1TU4O-001
Wolff, E.W.
The proximal cause of glacial terminations

15:45–16:00; EGU2008-A-01225; CL25-1TU4O-002
Sime, L.; Tindall, J.; Wolff, E.; Connolley, W.; Valdes, P.
Isotopic signals of a warmer climate in Antarctica

16:00–16:15; EGU2008-A-03049; CL25-1TU4O-003
Capron, E.; Landais, A.; Masson-Delmotte, V.; Leuenberger, M.; Barnola, J.-M.; Oerter, H.
Isotopic composition of the air trapped in the EDML ice core (d15N, d18O atm, d40Ar, dO2/N2) over the last 140 kyr
XY0235; EGU2008-A-10901; CL25-1TU40-004
Bigler, M.; Röthlisberger, R.; Lambert, F.
Occurrence rate estimation of explosive volcanic events as recorded in the EPICA Dome C ice core over the last 170 ka based on high-resolution electrolytic conductivity measurements

XY0236; EGU2008-A-03139; CL25-1TU40-005
Glacial terminations in the Southern hemisphere: A case study from the EPICA Dome C ice core

XY0237; EGU2008-A-06964; CL25-1TU40-006
Stenni, B.; The TALDICE Isotope Consortium Team
Stable isotope records from the new TALDICE ice core (East Antarctica)

XY0238; EGU2008-A-06970; CL25-1TU5P-0234
Maggi, V.; Doudon, B.; Parrenin, F.; Kaufmann, P.; Stocker, T.F.
Testing the observed dust-climate relationship over the past 170 ka in East Antarctica since the Early Pleistocene

XY0239; EGU2008-A-03251; CL25-1TU5P-0239
Moeller, L.; Behrens, M.; Richter, U.; Bock, M.; Schmitt, J.; Fischer, H.
The impact of abrupt climate variations on the carbon isotopic signature of methane

XY0240; EGU2008-A-03274; CL25-1TU5P-0240
Vautravers, M.J.; Hillenbrand, C.D.
Deposition of planktonic foraminifera on the Pacific margin of the Antarctic Peninsula (ODP Site 1101) during the last 1 Myr

XY0241; EGU2008-A-04011; CL25-1TU5P-0241
Engrand, C.; Narcisi, B.; Petit, J.-R.; Dobrica, E.; Duprat, J.
Two cosmic events in EPICA-Dome C deep ice core

XY0242; EGU2008-A-04057; CL25-1TU5P-0242
Schüpbach, S.; Federer, U.; Kaufmann, P.; Stocker, T. F.; Hutterli, M.
High Resolution CH4-Measurements of Ice Cores using CFA

XY0243; EGU2008-A-04142; CL25-1TU5P-0243
Hutterli, M. A.; Freitag, J.; Kipfstuhl, S.; Schneebeli, M.; Röthlisberger, R.
Orbital tuning of ice core age scales: Improvements with a physically based model

XY0244; EGU2008-A-04599; CL25-1TU5P-0244
Heikillä, U.; Beer, J.; Feichter, J.
Interpreting Be-10 records from ice cores: modelling of the atmospheric transport using the ECHAM5-HAM general circulation model

XY0245; EGU2008-A-04758; CL25-1TU5P-0245
A first CH4-based tentative time scale for the new Talos Dome ice core

XY0246; EGU2008-A-05248; CL25-1TU5P-0246
van der Wel, L.G.; Vinther, B.M.; Johnsen, S.J.; Meiβer, H.A.J.
Greenland Holocene temperatures obtained by differential diffusion studies

XY0247; EGU2008-A-06048; CL25-1TU5P-0247
Federer, U.; Schüpbach, S.; Kaufmann, P.; Hutterli, M.
An improved Continuous Flow Analysis (CFA) system for Ice Core Analysis

XY0248; EGU2008-A-06114; CL25-1TU5P-0248
Schüpbach, S.; Federer, U.; Kaufmann, P.; Hutterli, M.; Stocker, T.
First results of CFA - Measurements on the Gas-Phase of the Talos Dome Ice Core

XY0249; EGU2008-A-06316; CL25-1TU5P-0249
Lefebvre, E.; Ritze, C.; Legrésy, B.;Possenti, P.
New temperature profile measurement in the EPICA Dome C borehole

XY0250; EGU2008-A-06802; CL25-1TU5P-0250
Sala, M.; Dapiaggi, M.; Delmonte, B.; Artioli, G.; Marino, F.; Maggi, V.; Petì, J. R.
First mineralogical and crystallographic results on dust from the EPICA Dome C ice core

XY0251; EGU2008-A-06970; CL25-1TU5P-0251
Assessment of Ice Core delta13C02 Measurements from three European Laboratories

XY0252; EGU2008-A-07327; CL25-1TU5P-0252
Jenk, T.M.; Blunier, T.; Dahl-Jensen, D.
Development of a setup for the analysis of &δ13C02 in CO2 at the Centre for Ice and Climate
XY0253; EGU2008-A-07581; CL25-1TU5P-0253

Curran, M.; Wong, G; van Ommen, T; Goodwin, I; Vance, T
Estimate of sea salt sources to Antarctica: An alternative interpretation of the EPICA sea salt record?

XY0254; EGU2008-A-07704; CL25-1TU5P-0254

EPICA Dome C radiative forcing calculations

XY0255; EGU2008-A-09848; CL25-1TU5P-0255

Debret, M.; Petit, J.-R.; Delmonte, B.; Massel, N.; Sebag, D.
Dust in Antarctica during the Holocene

XY0256; EGU2008-A-10182; CL25-1TU5P-0256

Elderfield, H; McCave, IN; Ferreitti, P; Greaves, MJ
Eight glacial cycles of deep-water temperature and ice volume from the SW Pacific: Ocean – ice comparisons

XY0257; EGU2008-A-10247; CL25-1TU5P-0257

McClymont, E.L.; Rosell-Méle, A.
North Atlantic and Pacific surface ocean circulation across the mid-Pleistocene transition: implications for northern hemisphere ice-sheet growth

XY0258; EGU2008-A-10893; CL25-1TU5P-0258

The continuous dust record (150 kyr) from the EPICA-DML ice core, Antarctica: evidence for a sea ice influence on atmospheric circulation

XY0259; EGU2008-A-10927; CL25-1TU5P-0259

Marino & EPICA Dust Team, F.
Comparing the geochemical composition of dust recorded in the two EPICA ice cores (EDC & EDML) during glacial periods.

XY0260; EGU2008-A-11591; CL25-1TU5P-0260

Hellstrom, J.; Woodhead, J; Drysdale, R; Coughoud, I; Zanchetta, G
U-Th, U-Ph and U-U dating of the Corchia Cave speleothems: a continuous 1 Ma chronology

9:30-9:45; EGU2008-A-12380; CL41-1TU10-005
Rosell-Méle, A.; Marlow, J.R.; Bracken, P; Martinez, A.; McClymont, E.L.
Intensification and migration of the Benguela upwelling system associated with the Pliocene-Pleistocene transition

9:45–10:00; EGU2008-A-03297; CL41-1TU10-006
Major climatic changes in equatorial East Africa during the late Pleistocene and Holocene: reconstruction from paleo-shorelines in the Suguta Valley, northern Kenya Rift

10:00 END OF SESSION

CL41 African geodynamics, climate and evolution (co-listed in GD) – Posters

Convener: Trauth, M.
Co-Conveners: Strecke, M., Maslin, M.
Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 17:30–19:00
Poster Area Halls XY

Chairperson: STRECKER, M.R.

XY0261; EGU2008-A-01575; CL41-1TU5P-0261
Zielke, O.; Strecke, M.R.
Recurrence of large earthquakes in continental rifts, a paleoseismic study along the Lakipia-Maranet fault, Kenya

XY0262; EGU2008-A-01615; CL41-1TU5P-0262
Uenzelmann-Neben, G.; Schlueter, P.; Weigelt, E.
Cenozoic oceanic circulation within the South African gateway: indications from seismic stratigraphy

XY0263; EGU2008-A-02203; CL41-1TU5P-0263
The structural and environmental history of Northern Kenya Rift: The Suguta Valley Project

XY0264; EGU2008-A-02288; CL41-1TU5P-0264
Trauth, M.H.; Larraoana, J.C.
Trends, rhythms and events in Plio-Pleistocene African climate and human evolution

XY0265; EGU2008-A-02246; CL41-1TU5P-0265
Kaufmann, G.
Landscape evolution and glaciation of the Rwenzori Mountains: Insights from numerical modelling

XY0266; EGU2008-A-03109; CL41-1TU5P-0266
Prömmel, K.; Kaspar, F.; Cubasch, U.; Büchner, M.
Influence of tectonic uplift and orbital forcing on climate in East Africa based on regional climate simulations

XY0267; EGU2008-A-05630; CL41-1TU5P-0267
Bokoye, A.I.; Gachon, P.; Gauthier, N.; Cotnoir, A.; Vigant, G.
Recent trends in the variability and extremes of daily rainfall events over Sahelian countries (western Africa), and the 1961-2000 period

XY0268; EGU2008-A-07105; CL41-1TU5P-0268
Epp, L. S.; Trauth, M. H.; Tiedemann, R.
Molecular genetic analyses of sediment cores from East African Rift Lakes

XY0269; EGU2008-A-08771; CL41-1TU5P-0269
Berger, A.; Thorpe, J.; Deino, A.; Leng, M.; Mackay, A.; Sloane, H.
Paleoclimate change in East Africa at 119 - 109 ka derived from δ18O diatom and diatom assemblages and 40Ar/39Ar geochronology
XY0270; EGU2008-A-09682; CL41-1TU5P-0270
Multiple Cenozoic lake episodes in the Suguta Valley, Northern Kenya Rift

XY0271; EGU2008-A-12312; CL41-1TU5P-0271
Castañeda, I.S.; Schefuß, E.; Pätzold, J.; Sinninghe Damsté, J.S.; Schouten, S.
Organic geochemical evidence for Eastern Mediterranean/North African paleo-climate and Nile River discharge changes during the last 26 kyr (cancelled)

XY0272; EGU2008-A-12313; CL41-1TU5P-0272
Oblique rifting and en échelon-segmentation of the northern Kenya Rift

XY0273; EGU2008-A-12315; CL41-1TU5P-0273

XY0274; EGU2008-A-12332; CL41-1TU5P-0274
Pik, R.; Lavé, J.; Carignan, J.; Yirgu, G.; Ayalew, T.
Timing of East African Rift development in Southern Ethiopia and evolution of topography

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**Wednesday**

**CL8 Climate and ocean dynamics from high-resolution marine archives (co-listed in SSP)**

Convener: Arz, H.
Co-Convenor(s): Felis, T.
Lecture Room 14
Chairperson: N.N.

13:30–13:45; EGU2008-A-03998; CL8-1WE3O-001
Holocene and late Glacial Climate Variability in the Chilean Fjord Region (solicited)

13:45–14:00; EGU2008-A-06786; CL8-1WE3O-002
Saranstein, M.; Groten, P.M.; Holbourn, A.; Kennett, J.P.; Kühn, H.; Nadeau, M.J.
Deglacial Changes in MOC: New Evidence Based on 14C Paleoreervoir Ages from the Indo-Pacific

14:00–14:15; EGU2008-A-04296; CL8-1WE3O-003
Hetzinger, S.; Pfeiffer, M.; Dullo, W.C.; Ruprecht, E.; Garbe-Schoenberg, D.
Impact of remote forcing on climate in the eastern Caribbean Sea during the 20th century as captured by a coral record from Guadeloupe (Lesser Antilles)

14:15–14:30; EGU2008-A-02673; CL8-1WE3O-004
Crueger, T.; Zinke, J.; Pfeiffer, M.
Patterns of Pacific Decadal Variability recorded in Indian Ocean corals

14:30–14:45; EGU2008-A-10962; CL8-1WE3O-005
Weber, M.E.; Reichelt, L.; Ricken, W.; Kühn, G.; Geronde, R.
Interannual lamination in sediments from the last glacial maximum, southeastern Wedell Sea: stratigraphic evaluation and paleoceanographic implication

14:45–15:00; EGU2008-A-07209; CL8-1WE3O-006
Blanchet, C.L.; Thouveny, N.; Vidal, L.
Laminations, oxygenation conditions and terrigenous inputs since 120,000 yrs on the North-western American margin

15:00 END OF SESSION

**CL8 Climate and ocean dynamics from high-resolution marine archives (co-listed in SSP) – Posters**

Convener: Arz, H.
Co-Convenor(s): Felis, T.
Display Time: Wednesday, 08:00–19:30

**XY0185:** EGU2008-A-09284; CL8-1WE5P-0185
**Julliet-Leclerc, A.; Thiuria, S.; Péron, C.**
Neural network applied on multi-proxies measured on coral skeleton

**XY0186:** EGU2008-A-04391; CL8-1WE5P-0186
Assessing the accuracy of delta18Osw estimates from corals: lessons from simple Monte Carlo simulations

**XY0187:** EGU2008-A-02450; CL8-1WE5P-0187
**Storz, D.; Gischler, E.**
Coral proxy data records historical climate variability in the Maldives, Indian Ocean

**XY0188:** EGU2008-A-12413; CL8-1WE5P-0188
**Giry, C.; Felis, T.; Scheffers, S.**
Coral-based climate reconstruction of the southern Caribbean during Holocene time-windows

**XY0189:** EGU2008-A-08832; CL8-1WE5P-0189
**Carriquy, J.D.; Villasecua, J.A.**
Recent climatic variability in the mexican transition zone in the northeastern pacific reconstructed by geochemical proxies in corals

**XY0190:** EGU2008-A-04766; CL8-1WE5P-0190
**Felis, T.; Kuhntz, H.; Lohmann, G.; Al-Rousan, S.; Pätzt, J.**
Northern Hemisphere temperature seasonality during the Holocene documented in Red Sea corals

**XY0191:** EGU2008-A-02142; CL8-1WE5P-0191
**Reuning, L.; DeVries, T. J.**
Seasonal and interannual climate variability recorded in early Pliocene mollusc shells from coastal Peru

**XY0192:** EGU2008-A-05476; CL8-1WE5P-0192
Evidence for ENSO variability in the late Miocene

**XY0193:** EGU2008-A-07288; CL8-1WE5P-0193
**Arz, H.; Lamy, F.; Kwiecien, O.; Dulski, P.; Röhl, U.**
Holocene and Eemian sapropel sedimentation in the anoxic basin of the Black Sea

**XY0194:** EGU2008-A-06284; CL8-1WE5P-0194
**Gilbert, T.; Reichert, C.; Aeschenheim, B.; Günther, D.; Boer, W.; de Lange, G. J.**
Calibrating the response of Mediterranean sedimentation to interdecadal climate variability by high resolution scanning of recent laminated sediments
Núñez, N.; Herguera, J.C.; Rosell-Melé, A.
ENSO related export productivity interannual variations during the last century in the Southern California Current

De Bernardi, B.; Ziveri, P.; Field, D.
The effects of 20th century climatic perturbation on calcareous algae in the Santa Barbara Basin (California)

Núñez, N.; Herguera, J.C.; Rosell-Melé, A.
ENSO related export productivity interannual variations during the last century in the Southern California Current

De Bernardi, B.; Ziveri, P.; Field, D.
The effects of 20th century climatic perturbation on calcareous algae in the Santa Barbara Basin (California)

Perez-Cruz, L; Urrutia-Fucugauchi, J
Genesis of non-annual laminae in Holocene sediments from the southern Gulf of California: Their relation with ENSO events

Michaelovitch de Mahiques, M; Wainer, I; Caruso Bicego, M; Mello e Sousa, S; Burone, L; Lopes Figueira, R
A high-resolution Holocene record on the Southern Brazilian shelf: paleoenvironmental implications

CL11 Climate of the low latitudes
Convener: Paeth, H.
Co-Conveners: Reichart, G.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: N.N.

15:30–15:45; EGU2008-A-00845; CL11-1WE4O-001
Grimm, A.; Zilli, M.
Interannual variability and seasonal evolution of summer monsoon rainfall in South America: role of local and remote forcing

15:45–16:00; EGU2008-A-02133; CL11-1WE4O-002
Fröhlich, E. L.; Knippertz, P.
Tropical-extratropical interactions related to upper-level troughs at low latitudes

16:00–16:15; EGU2008-A-05320; CL11-1WE4O-003
Turner, A. G.; Slingo, J. M.
Snow-monsoon relationships in the 1000-year HadCM3 control run and their interaction with remote ENSO forcing

16:15–16:30; EGU2008-A-05964; CL11-1WE5P-0205
Hydrographic changes in the northeastern Arabian Sea during the past 80 ka

16:30–16:45; EGU2008-A-07847; CL11-1WE5P-0207
Lazar, R.; Eckart, D.; Kellerer-Pirklbauer, A.
Installation of the Earth’s highest located Climate Station Profiles

16:45–17:00; EGU2008-A-10056; CL11-1WE5P-006
Prange, M.; Merkel, U.; Mulitza, S.; Stuut, J.-B.; Schulz, M.
West African drying triggered by glacial slowdowns of the Atlantic meridional overturning circulation

17:00 END OF SESSION
CL17 Observing climate change and variability from space: achievements and challenges

Conveners: Kirchengast, G.  
Co-Conveners: Schulz, J.  
Display Time: Wednesday, 16:00–16:15

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Halls X/Y  
Chairpersons: Jonas, M.  

XY0210; EGU2008-A-01759; CL17-1WE5P-0210 Li, Yi; van Dijk, A; de Jeu, R; Holmes, T  
Satellite-observed soil and vegetation moisture content (1978-2006) show strong inter-annual ENSO signal across Australia (solicited)

XY0211; EGU2008-A-02271; CL17-1WE5P-0211 Wagner, T.; Beirle, S.; Grzegorski, M.; Platt, U.  
Effects of ENSO on global cloud cover (solicited)

XY0212; EGU2008-A-09244; CL17-1WE5P-0212 Herrmann, K.; Fischer, J.; Leinweber, R.; Preusker, R.  
Trend analysis of total column-integrated water vapor over cloudfree land surfaces

Sampling Errors of Climate Monitoring Constellations (solicited)

XY0214; EGU2008-A-10779; CL17-1WE5P-0214 Schweitzer, S.; Kirchengast, G.; Ladstädter, F.  
The ACCURATE Mission and the new Infrared Laser Occultation Technique: Measuring Principle, Capabilities, and Performance Simulation Results

XY0215; EGU2008-A-10568; CL17-1WE5P-0215 Frotscher, K.; Huettig, C.  
Mapping gradual changes in boreal forests using MODIS time series (solicited)

XY0216; EGU2008-A-06744; CL17-1WE5P-0216 Ringer, M.; Healy, S.  
Monitoring twenty-first century climate using GPS radio occultation bending angles (solicited)

XY0217; EGU2008-A-05955; CL17-1WE5P-0217 Lackner, B.C.; Steiner, A.K.; Ladstädter, F.; Kirchengast, G.  
Assessing Climate Trend Indicators from Radio Occultation based on Reanalyses and Global Climate Model Scenarios

XY0218; EGU2008-A-09859; CL17-1WE5P-0218 Ladstädter, F.; Steiner, A. K.; Lackner, B. C.; Kirchengast, G.; Muigg, P.; Kehrer, J.; Doleisch, H.  
Assessment of Climate Change Indicators with the Interactive Visual Field Exploration Tool SimVis

XY0219; EGU2008-A-04861; CL17-1WE5P-0219 Stenat, P.; Reicherter, T.  
Long-Term Monitoring of Global Tropopause Parameters Using Radio Occultation

XY0220; EGU2008-A-09405; CL17-1WE5P-0220 Borsche, M.; Fischer, B.; Foelsche, U.; Kirchengast, G.  
CHAMP Climatologies retrieved with high-Altitude Initialization by ECMWF Forecasts for the Creation of a continuous Climate Record

XY0221; EGU2008-A-05425; CL17-1WE5P-0221 Gleiser, H.; Lauritsen, K.B.; Syndergaard, S.; Rubek, F.; Sørensen, M.B.  
Climate data based on radio occultation measurements by the GRAS/METOP instrument

XY0222; EGU2008-A-06232; CL17-1WE5P-0222 Pavelyev, A.G.; Gubenko, V.N.; Liou, Y.A.; Wickert, J.; Pavelyev, A.A.  
Application of the GPS radio occultation technology for studying of the internal waves in the atmosphere (solicited)

Processing of radio occultation signals: preliminary results from the Italian ROSA ROSSA team

XY0224; EGU2008-A-12340; CL17-1WE5P-0224 Schroeder, M.; Schulz, J.; Jonas, M.; Lindau, R.  
Long-term application and evaluation of IAPP using global radiosonde and CHAMP measurements

XY0225; EGU2008-A-09711; CL17-1WE5P-0225 Hill, J.; Juckes, M.  
Using Fast data fusion to develop high resolution climate quality sea surface temperature data sets from multiple space based data sources

XY0226; EGU2008-A-04088; CL17-1WE5P-0226 Titchner, H.; Rayner, N.  
The use of passive microwave retrievals in the generation of a long term sea ice concentration series

XY0227; EGU2008-A-10163; CL17-1WE5P-0227 Lockhoff, M.; Reuter, M.; Thomas, W.; Weber, R.  
Comparison of SEVIRI-based cloud fractional coverage and cloud top pressure with synoptic measurements and corresponding MODIS products
XY0228; EGU2008-A-10280; CL17-1WE5P-0228
Gkikas, A.; Hatzianastassiou, N.; Mihalopoulos, N. Aerosol events in the Mediterranean basin during the 7-year period (2000-2007) based on MODIS-Terra data

XY0229; EGU2008-A-05083; CL17-1WE5P-0229
Kern, A.; Barcza, Z.; Bartholy, J.; Pongrác, R.; Timár, G.; Ferencz, C. Analysis of MODIS NDVI time series for Hungary in 2007: detecting the phenological impacts of the summer heatwave (solicited)

XY0230; EGU2008-A-05043; CL17-1WE5P-0230

CL18 Anthropogenic climate change: forcing, modelling, detection- attribution and impacts

Convener: Collins, M.
Co-Conveners(s): Terray, L., Dufresne, J.
Lecture Room 13
Chairperson: COLLINS, M.

13:30–13:45; EGU2008-A-01361; CL18-1WE3O-001
Dommengert, D The Ocean’s Lead in Continental Climate Change and Variability

13:45–14:00; EGU2008-A-02048; CL18-1WE3O-002
Pinto, J.G.; Kerschgens, M.; Leckebusch, G.C.; Neuhaus, C.P.; Reyers, M.; Speth, P. Impacts of climate change to storm events and losses over West Germany

14:00–14:15; EGU2008-A-01650; CL18-1WE3O-003
Seiffert, R.; von Storch, J.-S. Studying the impact of small-scale atmospheric fluctuations on the temperature response to CO2 forcing within a stochastic framework

14:15–14:30; EGU2008-A-02686; CL18-1WE3O-004
Stendel, M.; Christensen, J.H.; Adalgeirsdottir, G.; Klim, N.; Drews, M. Climate Change over Greenland and Surrounding Seas in a High-Resolution Transient Simulation

14:30–14:45; EGU2008-A-02975; CL18-1WE3O-005
Watterson, I Understanding the range of simulated regional climate change among CMIP3 models: the role of tropical SST anomalies

14:45–15:00; EGU2008-A-05277; CL18-1WE3O-006
Reifen, C.; Toumi, R AOGCM predictions: better past performance no guarantee of enhanced future skill

15:00 COFFEE BREAK

Chairperson: TERRAY, L. AND DUFRESNE, J.-L.

15:30–15:45; EGU2008-A-05825; CL18-1WE4O-001
Thompson, D. Understanding recent stratospheric climate change

15:45–16:00; EGU2008-A-08051; CL18-1WE4O-002
Dong, B.; Sutton, R. T.; Gregory, J. M. Understanding Land-Sea Warming Contrast in Response to Increasing Greenhouse Gases

16:00–16:15; EGU2008-A-08074; CL18-1WE4O-003
Jacob, D. How much climate change is unavoidable in Europe?

16:15–16:30; EGU2008-A-08242; CL18-1WE4O-004
Matthews, H. D.; Caldeira, K. Stabilizing climate requires near-zero emissions

16:30–16:45; EGU2008-A-02856; CL18-1WE4O-005

16:45–17:00; EGU2008-A-10930; CL18-1WE4O-006

17:00 END OF SESSION

CL18 Anthropogenic climate change: forcing, modelling, detection- attribution and impacts – Posters

Convener: Collins, M.
Co-Conveners(s): Terray, L., Dufresne, J.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: COLLINS, M.

XY0321; EGU2008-A-00256; CL18-1WE5P-0231
Chou, C.; Tu, J.-Y.; Tan, P.-H. Asymmetry of tropical precipitation change under global warming

XY0322; EGU2008-A-00701; CL18-1WE5P-0232
Pieczka, I.; Hunyadi, A.; Kardos, P.; Bartholy, J.; Pongrácz, R. Regional climate change expected in the Carpathian Basin in case of SRES A2 scenario using the model PRECIS

XY0323; EGU2008-A-01363; CL18-1WE5P-0233
May, W. Climatic changes associated with a global “2 °C-stabilization” scenario simulated by the EGHAM5/MPI-OM coupled climate model

XY0324; EGU2008-A-02520; CL18-1WE5P-0234

XY0325; EGU2008-A-09163; CL18-1WE5P-0235
Kaas, E.; Royer, J-F; Huebener, H; Niehörster, F; Dufresne, J-L; Johns, T; Lowe, J; Good, P; Roechner, E.; Esch, M Estimates of Fixed SST-forcing in the 20th Century ENSEMBLES Stream One Simulations

XY0326; EGU2008-A-03190; CL18-1WE5P-0236
Leckebusch, G.C.; Weimer, A.; Pinto, J.G.; Reyers, M.; Speth, P. Winter storm identification by means of a cluster analysis

XY0327; EGU2008-A-03878; CL18-1WE5P-0237
Collins, M; Bhaskaran, B; Booth, B; Harris, G; Murphy, J; Sexton, D; Webb, M Model errors and climate change feedbacks in multi-model and perturbed-physics ensembles

XY0328; EGU2008-A-04697; CL18-1WE5P-0238
Golubatnikov, L.L.; Denisenko, E.A. Climate change impact on the vegetation dynamics in Russia
XY0239; EGU2008-A-05178; CL18-1WE5P-0239
Pfeifer, S.; Jacob, D.
Assessment of the climate change signal for Central and Eastern Europe

XY0240; EGU2008-A-05184; CL18-1WE5P-0240
Kirchner, L.; Fast, I.; Niehörster, F.; Spangehl, T.
Response to Tropospheric Aerosol Changes in a Fully Coupled Ocean Troposphere Stratosphere Model (EGMAM)

XY0241; EGU2008-A-07064; CL18-1WE5P-0241
Racherla, P.; Pandis, S.; Adams, P.
The sensitivity of ozone and particulate matter concentrations over Europe to global change

XY0242; EGU2008-A-08020; CL18-1WE5P-0242
Yao, FM; Zhang, JH
The impacts of climate change on rice yields in China

XY0243; EGU2008-A-08763; CL18-1WE5P-0243
Kumasi, T. C.; Obiri-Danso, K; Ephraim, J. H.
Impacts of land-use change on the water quality of the main source of pipe borne water for Kumasi, Ghana (A case study of the Barekese reservoir catchment area)

XY0244; EGU2008-A-09174; CL18-1WE5P-0244
Feichter, J; Kloster, S; Fischer-Bruns, I; Dentener, F; van Aardenne, J
Climate response of aerosol emissions from specific economic sectors

XY0245; EGU2008-A-11298; CL18-1WE5P-0245
Detection and attribution of climate change in the Iberian Peninsula by using regional climate models.

XY0246; EGU2008-A-11465; CL18-1WE5P-0246
Blend, J.; von Storch, H.
Potential detectability of an anthropogenic climate change in a surrogate climate

CL24 Modelling late Quaternary climate (including Milutin Milankovic Medal Lecture)

Convener: Weber, N.
Co-Convener(s): Hargreaves, J., Kageyama, M.
Lecture Room: 13
Chairperson: N.N.

8:30–9:00; EGU2008-A-01698; CL24-1WE1O-001
Pelletier, W. R.
The Late-Quaternary ice-age cycel: Milankovic plus! (Milutin Milankovic Medal Lecture) (solicited)

9:00–9:15; EGU2008-A-02073; CL24-1WE1O-002
Calov, R; Ganopolski, A; Claussen, M
Simulation of Termination II

9:15–9:30; EGU2008-A-09166; CL24-1WE1O-003
Singarayer, J.; Ridgwell, A; Valdes, P
Impact of ocean circulation on glacial Pacific abyssal carbon storage and deglacial release

9:30–9:45; EGU2008-A-08557; CL24-1WE1O-004
Montoya, M.; Levermann, A
Surface wind-stress threshold for glacial Atlantic overturning

9:45–10:00; EGU2008-A-05643; CL24-1WE1O-005
Otieno, F.; Essig, M.; Oglesby, R.; Bromwich, D
Simulating Glacial Inception at 115Ka: Relative Effects of Orbital Forcing and CO2

10:00 COFFEE BREAK

10:30–10:45; EGU2008-A-02654; CL24-1WE2O-001
Marchal, O.; Burke, A.
Testing palaeoceanographic hypotheses using inverse methods: Application to Pa-231/Th-230 data for the Heinrich Event I

10:45–11:00; EGU2008-A-11208; CL24-1WE2O-002
Hoffmann, G.
Interpretation of Water Isotope Signals in paleo archives covering the last 20,000 years

11:00–11:15; EGU2008-A-02256; CL24-1WE2O-003
Crucifix, M.; Rougier, J.
Could Ruddiman’s hypothesis be undecidable?

11:15–11:30; EGU2008-A-00735; CL24-1WE2O-004
Marzin, C.; Bracconnot, P.
Asian monsoon variations and teleconnections during the Holocene

11:30–11:45; EGU2008-A-03488; CL24-1WE2O-005
Fischer, N.; Jungclaus, J.; Raddatz, T.; Brovkin, V.
Eemian and Holocene Climate Variability in a Coupled Atmosphere-Ocean-Biosphere Model

11:45–12:00; EGU2008-A-06016; CL24-1WE2O-006
Phipps, S. J.
Simulating the evolution of ENSO over the late Holocene

12:00 END OF SESSION

CL24 Modelling late Quaternary climate (including Milutin Milankovic Medal Lecture) – Posters

Convener: Weber, N.
Co-Convener(s): Hargreaves, J., Kageyama, M.
Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0247; EGU2008-A-04198; CL24-1WE5P-0247
Bonelli, S.; Charbit, S.; Ramstein, G.; Dumas, C.
Studying the evolution of major northern hemisphere ice sheets during marine isotopic stage 11 with a fully coupled climate-ice sheet model

XY0248; EGU2008-A-01224; CL24-1WE5P-0248
Sime, L.; Quere, C.; Wolff, E.; Connolley, W.; de Boer, A.; Bopp, L.
Influence of changes in boundary conditions on Southern ocean winds at the last glacial inception

XY0249; EGU2008-A-02249; CL24-1WE5P-0249
Kjellström, E.; Brandefelt, J.; Strandberg, G.; Smith, B.; Wohlfarth, B., Näslund, J.-O.
Global and regional climate model simulations of extreme climate conditions in Sweden in a 100,000 year perspective

XY0250; EGU2008-A-06140; CL24-1WE5P-0250
Arrouze, T; Dutay, J-C; Kageyama, M; Jeandel, C; Alkama, R; Marti, O; Lascu, F
Influence of the Atlantic thermohaline circulation on neodymium isotopic composition at the last glacial maximum, a modelling sensitivity test

XY0251; EGU2008-A-09092; CL24-1WE5P-0251
Kageyama, M; Mignot, J; Swingedouw, D; Marzin, C; Alkama, R; Marti, O
Climate and thermohaline circulation relationships in a glacial world: a modelling study with the IPSL model
The stability of the AMOC in the Last Glacial Maximum climate

Modelling last glacial maximum climate variability with a high resolution regional climate model

Climatic impacts of greenhouse gas concentration changes under glacial and interglacial conditions: Polar amplification, land/sea warming ratio, atmospheric circulation impacts

The Arctic Oscillation at the mid-Holocene and the Last Glacial Maximum: A comparison between PMIP 2 models

Reconstructing the history of precipitation across a steep moisture gradient in the coastal temperate rainforest complex of western North America

The Arctic Oscillation at the mid-Holocene and the Last Glacial Maximum: A comparison between PMIP 2 models

Modelling the history of precipitation across a steep moisture gradient in the coastal temperate rainforest complex of western North America

Are paleo-proxy data helpful for constraining future climate change?

Paleo-Constraints In Ensemble Climate Modeling

Ice sheet-climate coupling in the GENIE earth system model: assessment and challenges

The onset of Antarctic glaciation and the Eocene – Oligocene transition; cooling, sea level or both?

Initial results of ANDRILL's Southern McMurdo Sound Project drillcore AND-2A: early Miocene to Recent paleoclimate and geological history of the Victoria Land Basin, Antarctica

Role of the Antarctic ice sheet in Plio-Pleistocene climate evolution; Implications from ANDRILL-McMurdo Ice Shelf Project Science Team

A 13 million year history of ice advance and retreat in the Western Ross Embayment – stratigraphic evidence from ANDRILL Site 1B.

Climate and ice sheet modelling of mid-Pliocene East Antarctica

Climate and ice sheet modelling of mid-Pliocene East Antarctica

Antarctic climate and geological history of the Victoria Land Basin, Antarctica

Modelling last glacial maximum climate variability with a high resolution regional climate model

Paleo-Constraints In Ensemble Climate Modeling

Early Pliocene environmental variation in McMurdo Sound inferred from correlation of drill cores using models generated under constrained optimization.

The Arctic Oscillation at the mid-Holocene and the Last Glacial Maximum: A comparison between PMIP 2 models

The Arctic Oscillation at the mid-Holocene and the Last Glacial Maximum: A comparison between PMIP 2 models

Ice sheet-climate coupling in the GENIE earth system model: assessment and challenges

The onset of Antarctic glaciation and the Eocene – Oligocene transition; cooling, sea level or both?
The Late Quaternary environmental history of the Rauer Group (East Antarctica)

The Late Neogene Glacio-marine deposit form James-Ross Island, Antarctica: Benthic foraminiferal content insight on the ice-sheet evolution.

A Late Neogene record of density and porosity from the AND-1B core &§211; implication for cyclic environmental change and glacial history in the McMurdo Sound region

Preliminary carbon isotope results from the ANDRILL MIS core – complex interaction between glacial-climatic and volcanic processes?

Major and minor element concentrations in the ANDRILL MIS core –– the top 100 m of AND-001-B. Causal or casual link between the rise of nanoplanктon calcification and a tectonically-driven massive decrease in late Triassic atmospheric CO2?

A parallel drop in pCO2 and sea surface temperature during the late Paleocene Thermal Maximum 2 (solicited)

Causal or casual link between the rise of nannoplankton calcification and a tectonically-driven massive decrease in late Triassic atmospheric CO2?

Late Neogene Cenozoic history of the Ross Sea continental margin IODP proposal: the missing link between the inner shelf and the Southern Ocean records.

The Late Quaternary environmental history of the Rauer Group (East Antarctica)

A case-study of an interactive project ANDRILL educational activities in Italy; progettomsilla.it, a case-study of an interactive project

Developing climate change literacy from an Antarctic perspective through the ANDRILL education and public outreach program.

Climate and carbon cycle coupling during the late Paleocene and early Eocene: Inferences from high-resolution stable isotope records (solicited)

Climate and carbon cycle coupling during the late Paleocene and early Eocene: Inferences from high-resolution stable isotope records (solicited)

Late Neogene Cenozoic history of the Ross Sea continental margin IODP proposal: the missing link between the inner shelf and the Southern Ocean records.

CL36 Warm Climates in the Past

Convener: Winguth, A.
Co-Conveners: Bice, K., Brinkhuis, H., Kirk-Davidoff, D., Ridgwell, A.
Lecture Room 26 Chairperson: N.N.

8:50–9:00; EGU2008-A-04969; CL36-1WE1O-002
Sinninghe Damste, JS; Mueller, A; van Bentum, E; Forster, A; Reichart, GJ; Schouten, S
A parallel drop in pCO2 and sea surface temperature during a mid-Cretaceous Oceanic Anoxic Event (solicited)

9:00–9:15; EGU2008-A-05669; CL36-1WE1O-003
Zachos, J.; McCarren, H.; Murphy, B.; Röhl, U.; Westerhold, T
Climate and carbon cycle coupling during the late Paleocene and early Eocene: Inferences from high-resolution stable isotope records (solicited)

9:15–9:30; EGU2008-A-03638; CL36-1WE1O-004
Sluijs, A.; Schouten, S.; Röhl, U.; Reichart, G.J.; Sinninghe Damsté, J.S.; Sangiorgi, F; Krishnan, S; Pagani, M; Brinkhuis, H
Fresh and warm Arctic Ocean surface waters during Eocene Thermal Maximum 2 (solicited)

9:30–9:45; EGU2008-A-12374; CL36-1WE1O-005
Valdes, P.J.
Model-Data Comparisons for the Early Eocene climates (solicited)

9:45–10:00; EGU2008-A-05889; CL36-1WE1O-006
Kirk-Davidoff, D; Solomon, A; Murphy, L
Mesoscale modeling of convective feedbacks over an ice-free Arctic Ocean

10:00 END OF SESSION
Pliocene Climate, ENSO and Equifinality
Chen, Z. Q.
Benthic responses to Permian icehouse-greenhouse climatic turnover from Gondwana and Tethys: Evidence from brachiopod faunas in South China and Western Australia

XY0285; EGU2008-A-09509; CL36-1WE5P-0285

Evidence for the Middle Eocene Climatic Optimum (“MEO”) in the Venetian Alps.

XY0286; EGU2008-A-10116; CL36-1WE5P-0286

Stoll, H.; Shimizu, N.; Ziveri, P.; Zentner, D.; Emhoff, K.
Response of coccolithophorid algae to the PETM: productivity and carbon acquisition

XY0287; EGU2008-A-10069; CL36-1WE5P-0289

Luciani, V.; Agnini, C.; Backman, J.; Giuberti, L.; Lucchi, R.; Muttoni, G.; Rio, D.
Planktonic foraminiferal response to the Early Eocene Climatic Optimum at the Tethyan Possagno section (Italy)

XY0288; EGU2008-A-04140; CL36-1WE5P-0288

Lunt, D.J.; Valdes, P.J.; Ridgwell, A.
Sensitivity to CO2 of the Eocene climate - implications for ocean circulation and glaciation

XY0289; EGU2008-A-01391; CL36-1WE5P-0289

Sijp, W.; England, M.
Eocene warmth, Drake Passage and the hydrological cycle

XY0290; EGU2008-A-08638; CL36-1WE5P-0290

Dramatic high latitude sea surface temperature change during the Paleogene: New multi-proxy records from New Zealand

XY0291; EGU2008-A-02445; CL36-1WE5P-0291

Stap, L.; Lourens, L.J.; Sluijs, A.; Thomas, E.
Reconstruction of ocean temperature and carbonate dissolution during ETM-2 (53.7 Ma)

XY0292; EGU2008-A-10810; CL36-1WE5P-0292

Dedert, M.; Stoll, H.; Ziveri, P.
Calcareous nanoplankton productivity response to the Early Eocene Hyperthermal Event (ETM2) Elmo

XY0293; EGU2008-A-02066; CL36-1WE5P-0293

Haywood, A. M.; Lunt, D. J.
Modelling mid Pliocene warmth: contribution of atmosphere, oceans and cryosphere revisited

XY0294; EGU2008-A-00498; CL36-1WE5P-0294

Bonham, S.; Haywood, A.; Lunt, D.; Collins, M.
Pliocene Climate, ENSO and Equifinality

XY0295; EGU2008-A-09996; CL36-1WE5P-0295

Etourneau, J.; Schneider, R.; Martinez, P.; Blanz, T.
Nitrogen fixation within both Benguela Upwelling System and Eastern Equatorial Pacific as a strong contributor of the Pliocene cooling?

XY0296; EGU2008-A-04332; CL36-1WE5P-0296

Vizcaíno, M.; Rupper, S.; Chiang, J.
Comparison of different mechanisms explaining the absence of Northern Hemisphere ice sheets prior to ~2.75 Ma

XY0297; EGU2008-A-02390; CL36-1WE5P-0297

Helmeke, J.P.; Bauch, H.A.; Röhl, U.; Kandiano, E.S.
Uniform climate development between the subtropical and subpolar Northeast Atlantic across marine isotope stage 11

XY0298; EGU2008-A-05701; CL36-1WE5P-0298

Dickson, A. J.; Bendle, J. A.; Leng, M. J.; Maslin, M. A.; McClymont, E. L.; Pancost, R. D.
Surface water heat transport in the South East Atlantic Ocean during Marine Isotope Stage 11

XY0299; EGU2008-A-02076; CL36-1WE5P-0299

Kellerer-Pirklbauer, A.; Drescher-Schneider, R.; Lieb, G.K.; Slupetzky, H.
New insight into the Holocene environment of the Central Alps of Austria based on recent peat findings at Pasterze Glacier, Central Austria

XY0300; EGU2008-A-05862; CL36-1WE5P-0299

Cl.36 Warm Climates in the Past – Posters

XY0301; EGU2008-A-06094; CL37-1WE3O-003

14:00–14:15; EGU2008-A-01297; CL37-1WE3O-002

Modelling the middle Miocene excursion in the 13C isotopic transition (16.5-12.5 Ma) (solicited)

14:15–14:30; EGU2008-A-01747; CL37-1WE3O-004

The impact of Miocene atmospheric carbon dioxide fluctuations on climate and the evolution of terrestrial ecosystems

14:30–14:45; EGU2008-A-04984; CL37-1WE3O-001

The middle Miocene carbon isotope shift revisited with marine proxies and numerical models

14:45–15:00; EGU2008-A-01297; CL37-1WE3O-002

Modelling the middle Miocene excursion in the 13C isotopic composition of deep seawater (solicited)

15:00 END OF SESSION
CL37 The Miocene on land and in the oceans (co-listed in SSP) – Posters

Convenor: Diester-Haass, L.
Co-Conveners(s): Billups, K.; Roth.Nebelsick, A.
Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: ROTH-NEBELSICK,A., DIESTER-HAASSL.

XY0300; EGU2008-A-05226; CL37-1WESP-0300
Bickert, T.; Butzin, M.; Lohmann, G.
Effect of ocean gateways on the evolution of Miocene ocean circulation and marine carbon cycle: data vs. modelling

XY0301; EGU2008-A-10190; CL37-1WESP-0301
Butzin, M.; Lohmann, G.; Bickert, T.
Closure of the eastern Tethys: An ocean modeling perspective on the carbon isotopic sediment record during the middle Miocene

XY0302; EGU2008-A-04167; CL37-1WESP-0302
Lunt, D.J.; Salzmann, U.; Flecker, R.; Valdes, P.J.; Haywood, A.
A fully coupled GCM simulation of the Late Miocene - comparison with paleodat.

XY0303; EGU2008-A-12242; CL37-1WESP-0303
Favre, E.; François, L.; Utescher, T.; Suc, J.-P.; Henrot, A.; Micheels, A.; Mosbrugger, V.
Modelling Late Miocene vegetation in Europe: results of the CARAIB model and comparison with palaeovegetation data

XY0304; EGU2008-A-08574; CL37-1WESP-0304
Boehme, M.; Winklerhofer, M.
A Continental Miocene Thermal Maximum predates the Miocene Climate Optimum in Central Europe

XY0305; EGU2008-A-02524; CL37-1WESP-0305
Héran, M.-A.; Lohmann, G.; Bickert, T.
Continental climate reconstruction for the Miocene of Western Europe: mammal point of view

XY0306; EGU2008-A-12087; CL37-1WESP-0306
Segalen, L; Pickford, M; Lee-Thorp, I; Senut, B; Renard, M
Neogene climate change in southwestern Africa recorded in continental biominerisations

XY0307; EGU2008-A-07467; CL37-1WESP-0307
Hoorn, M.C.; Wesselingh, F.P.; Vohof, H.B.
The dynamic Neogene history of northern South America and its role in shaping the present landscape and biodiversity of Amazonia

XY0308; EGU2008-A-03512; CL37-1WESP-0308
Vautravers, M.J.; Peck, V.I.
Oceanic circulation and climate in the latest Messinian (5.7-5.3 Ma)

XY0309; EGU2008-A-10112; CL37-1WESP-0309
Naafs, B.D.A; Stap, H.L.; Thomas, E.; Lourens, L.; Reijmer, G.J.; Hodel, D.A.
Integrated oxygen isotope and Mg/Ca analysis of benthic foraminiferal species: the last 30 Myr

XY0310; EGU2008-A-06571; CL37-1WESP-0310
Mourik, A.A.; Sprong, J.; Kouwenhoven, T.J.; Abels, H.A.; Hilgen, F.J.; Van der Zwaan, G.J.
The Middle Miocene Climate Transition in the central Mediterranean: changing paleoenvironments as revealed by benthic foraminifera.

XY0311; EGU2008-A-06345; CL37-1WESP-0311
Drinia, H.; Antonarakou, A.; Lirer, F.; Sprovieri, M.; Kontakioti, G.; Tsaparas, N.; Goumas, G.; Galanakos, D.; Paschos, P.
Response of benthic foraminiferal assemblages to the Neogene tectono-sedimentary evolution of the Pre-Apulian zone (Levkas Island, western Greece).

XY0312; EGU2008-A-10607; CL37-1WESP-0312
El-Shishtawy, A.
Carbonate Sedimentation and Stratigraphy of the Middle Miocene of Siwa Oasis, Egypt

XY0313; EGU2008-A-10257; CL37-1WESP-0313
Abu Shama, A
Biosтратigraphy and distribution of calcareous nannofossils of the Miocene rocks from the onshore Mallaha-1X and Abu Roda-1 wells, northwestern Sinai, Egypt

XY0314; EGU2008-A-03858; CL37-1WESP-0314
Climatic precession control of Miocene metre-scale mudflat-lacustrine cycles in the Teruel Basin (NE Spain)

CL44 Climate Data Homogenization and Climate Trend/Variability Assessment

Convenor: Wang, X.
Co-Convener(s): Aguilar, E.
Lecture Room 14
Chairperson: ENRIC AGUILAR

8:30-8:45; EGU2008-A-03100; CL44-1WE1O-001
Mestre, O.; Lebarbier, E.; Péter, D.; Picard, F.; Robin, S.
Comparison of change-point detection methods in the mean of Gaussian processes (solicited)

8:45-9:00; EGU2008-A-00005; CL44-1WE1O-002
Wang, X. L.
Accounting for autocorrelation in detecting mean-shifts in climate data series using the penalized maximal t or F test

9:00-9:15; EGU2008-A-01059; CL44-1WE1O-003
Wan, H.; Wang, X. L.; Swail, V. R.
Homogenization and trend analysis of Canadian surface wind speeds

9:15-9:30; EGU2008-A-05997; CL44-1WE1O-004
Haimberger, L; Gruber, C; Sperka, S
Homogenization of radiosonde temperature and wind data

9:30-9:45; EGU2008-A-04073; CL44-1WE1O-005
Titchner, H.; Thorne, P; McCarthy, M
Assessing large scale trend recovery in radiosonde temperature homogenisation

9:45–10:00; EGU2008-A-02449; CL44-1WE1O-006
Gruber, C; Auer, I.
Comparison of daily data homogenization methods

10:00 COFFEE BREAK

Chairperson: XIAOLAN L. WANG
10:30–10:45; EGU2008-A-03761; CL44-1WE2O-001
Della-Marta, P.M.; Begert, M.; Zenklusen, E.; Croci-Maspoli, M.
A comparison of methods to homogenise daily temperature data (solicited)
Kuglitsch, F. G.; Xoplaki, E.; Luterbacher, J.; Della-Marta, P. M.
Homogenization of daily atmospheric data for detecting extreme events in the Mediterranean basin

Prohom, M.J.; Esteban, P.; Herrero, M.; Mestre, O.; Aguilar, E.
Analysis of Catalan, Andorran and French temperature series from the early 20th century to the present using different homogenisation approaches

Guirarro, J.A.
Application of an automatic homogenisation R function to temperature and precipitation series, and impact on their trend evaluations

Guijarro, J.A.
Application of an automatic homogenisation R function to temperature and precipitation series, and impact on their trend evaluations

Toreti, A.; Desiato, F.; Fioravanti, G.; Perconti, W.
Homogenization and analysis of monthly precipitation over Italy from 1961 to 2006

Prohom, M.J.; Esteban, P.; Herrero, M.; Mestre, O.; Aguilar, E.
Analysis of Catalan, Andorran and French temperature series from the early 20th century to the present using different homogenisation approaches

Cheval, S.; Szentimrey, T.
Long-Term Temperature Variability in Romania (1901-2005) Based on Homogenized Data

Monthly Air Temperature Homogenization over France

Aguilar, E.; Brunet, M.; Sigró, J.; Della-Marta, P.
Comparison of different approaches for the correction of inhomogeneous Spanish daily temperature series. The examples of La Coruña, Madrid and Murcia.

Cheval, S.; Szentimrey, T.
Long-Term Temperature Variability in Romania (1901-2005) Based on Homogenized Data

Mestre, O.; HOME CORE GROUP
COST Action ES0601 "HOME"

Lizuma, L.; Briede, A.
Homogenisation of the longest meteorological data series in Latvia: temperature and precipitation records from Riga

Manea, A.; Oprea, C.; Boroneant, C.
Comparison between classical and automatic measurements of solar radiation performed at the meteorological stations in Romania: preliminary results

Akhmadiyeva, Zh.
Handling instrumental homogeneity of precipitation measurements when climate change is a major objective of research

Zhao, X.L
The variation trend of soil dryness/wetness over North China in recent 20 years and its countermeasures of water management and regulation

Domonkos, P.
Testing of homogenisation methods: reproduction of trend-slopes caused by climatic changes in linear regression (cancelled)

Zhao, X.L
The variation trend of soil dryness/wetness over North China in recent 20 years and its countermeasures of water management and regulation

Zou, L.Y
The climatology characteristic of rainstorm over Northeast China in recent 45 years

Rust, H. W.; Mestre, O.; Venema, V.
Inhomogeneities in temperature records deceive long-range dependence estimators

Stepanek, P.; González-Hidalgo, J.C.; De Luis, M.
Software for data quality control and homogenization of time series

Wan, H.; Wang, X. L.; Swail, V. R.
A Quality Assurance System for Canadian Hourly Pressure Data

Groisman, P.; Bogdanova, E; Knight, R; Ilyin, B; Akhmadiyeva, Zh.
Handling instrumental homogeneity of precipitation measurements when climate change is a major objective of research

Monthly Air Temperature Homogenization over France

de Luis, M.; González-Hidalgo, J.C.; Stepanek, P.
A minimum distance optimization between neighbourhoods for reference series in Western Mediterranean.

Aguilar, E.; Brunet, M.; Sigró, J.; Della-Marta, P.
Comparison of different approaches for the correction of inhomogeneous Spanish daily temperature series. The examples of La Coruña, Madrid and Murcia.

Chen, Y.; Heimann, M.; Churkina, G.
A comparison of regional climate variables between REMO, CRU, ECMWF, NCEP and ECHAM5 in European area

Mestre, O.
Homogenization and analysis of monthly precipitation over Italy from 1961 to 2006

Braconnot, P
Sahel precipitation in simulation of the Paleoclimate Modelling Intercomparison Project

Zou, L.Y
The climatology characteristic of rainstorm over Northeast China in recent 45 years

Chen, Y.; Heimann, M.; Churkina, G.
A comparison of regional climate variables between REMO, CRU, ECMWF, NCEP and ECHAM5 in European area

Zhao, X.L
The variation trend of soil dryness/wetness over North China in recent 20 years and its countermeasures of water management and regulation

Zou, L.Y
The climatology characteristic of rainstorm over Northeast China in recent 45 years

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Thursday

CL15 Physical and biogeochemical feedbacks in the climate system

Convener: Jones, C.
Co-Conveners: Alexeev, V.
Lecture Room 26
Chairperson: JONES, C.

10:00 COFFEE BREAK

Chairperson: ALEXEEV, V.

8:30–8:45; EGU2008-A-08545; CL15-1TH1O-001
Sitch, S.; Cox, P.M.; Collins, W.J.; Huntingford, C.
Anthropogenic N emissions drive C sequestration by forest ecosystems

8:45–9:00; EGU2008-A-09674; CL15-1TH1O-002
Thornton, P.; Bonan, G.; Doney, S.; Lindsay, K.; Moore, K.; Mahowald, N.; Randerson, J.; Fung, I.; Lamarque, J.-F.
Carbon-nitrogen coupling regulates climate-carbon feedback (solicited)

9:00–9:15; EGU2008-A-07636; CL15-1TH1O-003
Kaduk, J.; Los, S
Future temperate and boreal terrestrial carbon sink reduced due to plant phenological responses to climate warming

9:15–9:30; EGU2008-A-03997; CL15-1TH1O-004
Sitch, S.; Cox, P.M.; Collins, W.J.; Huntingford, C.
Indirect radiative forcing of climate change through ozone effects on the land-carbon sink

9:30–9:45; EGU2008-A-06738; CL15-1TH1O-005
Le Quere, C.; Roedenbeck, C.; Buitenhuis, E. T.; Metzl, N.; Gillett, N.; Heimann, M.; Southern Ocean Atmospheric CO2 TEAM
Saturation of the Southern Ocean CO2 Sink due to Recent Climate Change (solicited)

9:45–10:00; EGU2008-A-09962; CL15-1TH1O-006
Brovkin, V.; Archer, D.; Buffett, B.
Feedback between climate and ocean methane hydrates in greenhouse climate

9:30–11:15; CL15-1TH2O-000

11:00–11:15; EGU2008-A-09885; CL15-1TH2O-002
Ringer, M.; Senior, C.; Ingram, W.
Impact of changing convection scheme on cloud feedbacks in the tropics

11:15–11:30; EGU2008-A-04893; CL15-1TH2O-003
Sokolov, A
Dependence of effective climate sensitivity on the parameterization of land evaporation.

11:30–11:45; EGU2008-A-01784; CL15-1TH2O-004
Esau, I.
Planetary boundary layer feedback on the climate sensitivity: Estimations derived from large-eddy simulations

11:45–12:00; EGU2008-A-10618; CL15-1TH2O-005
Polyakov, I.; Alexeev, V.; Bhatt, U.; Polyakova, E.
North Atlantic warming: Fingerprints of climate change and long-term variability

10:00–12:00; CL15-1TH5P-0164

10:00–10:15; EGU2008-A-12079; CL15-1TH5P-0163
Jones, C.; Collins, M; Sitch, S
Implementation of fire into a general circulation model

10:15–10:30; EGU2008-A-03493; CL15-1TH5P-0162
Doutriaux-Boucher, M.; Webb, M.; Jones, C. D.; Booth, B.
The atmospheric CO2 airborne fraction and carbon cycle feedbacks (cancelled)

10:30–10:45; EGU2008-A-12179; CL15-1TH5P-0161
Soden, B. J.; V ecchi, G. A.; Held, I. M.
The IRIS feedback over the tropical oceans: implications for global climate sensitivity in an extended model

10:45–11:00; EGU2008-A-11369; CL15-1TH5P-0160
Fatima, H.; Mittal, R.; Upadhyaya, H.; Sharma, O.
The atmospheric CO2 airborne fraction and carbon cycle feedbacks

11:00–11:15; EGU2008-A-05088; CL15-1TH5P-0159
Fatima, H.; Mittal, R.; Upadhyaya, H.; Sharma, O.
Study of monsoon with the impact of aerosols (cancelled)

11:15–11:30; EGU2008-A-04893; CL15-1TH5P-0158
Seldin, F.; Siebesma, A.; Hazeleger, W.
Sensitivity of the global circulation to uncertain cloud parameters in EC-EARTH simulations

11:30–11:45; EGU2008-A-01886; CL15-1TH5P-0157
Skeie, R.; V alskmoen, H.; V eretennikov, A.; Jones, C.
Implementation of fire into a general circulation model

11:45–12:00; EGU2008-A-10618; CL15-1TH5P-0156
Polyakov, I.; Alexeev, V.; Bhatt, U.; Polyakova, E.
North Atlantic warming: Fingerprints of climate change and long-term variability

12:00 END OF SESSION
**XY0165; EGU2008-A-11268; CL15-1TH5P-0165**

**Atkinson, C.**
The effect of biochemical energy release on soil temperature

**XY0166; EGU2008-A-06061; CL15-1TH5P-0166**

**Hughes, J.K.; Jones, C.D.; Pearson, D.**
Impact of land use change on the European terrestrial carbon cycle.

**XY0167; EGU2008-A-07706; CL15-1TH5P-0167**

**Zoran, M.**
Forest vegetation-climate feedback regimes derived from satellite remote sensing data

**XY0168; EGU2008-A-11446; CL15-1TH5P-0168**

**Nicolsky, D.J.; Alexeev, V.A.; Romanovsky, V.E.; Lawrence, D.M.**
How deep should be the CLM3 soil layer for modeling of permafrost?

**XY0169; EGU2008-A-10583; CL15-1TH5P-0169**

**Hoffmann, L. J.; Breitharth, E.; Croot, P.; Bathmann, U.; von Harbou, L.; Jansen, S.; Peeken, I.**
Effects of zooplankton grazing on iron speciation in the Southern Ocean

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**XY0170; EGU2008-A-02452; CL16-1TH5P-0170**

**Klein Goldewijk, K.**
Human influence on the global environment throughout the Holocene: results from HYDE 3.0 (solicited)

**XY0171; EGU2008-A-03996; CL15-1TH5P-0171**

**Pongratz, J.; Reich, C.H.; Raddatz, T.; Claussen, M.**
Biogeophysical Effects of Anthropogenic Land Cover Change during the last Millennium

**XY0172; EGU2008-A-03097; CL15-1TH5P-0172**

**Otto, J.; Raddatz, T.; Claussen, M.; Brovkiv, V.; Gayler, V.; Reich, C.H.**
Feedback analysis of mid-Holocene winter warming

**XY0173; EGU2008-A-04322; CL15-1TH5P-0173**

**Wohlfahrt, J.; Claussen, M.**
Validation of an atmosphere-ocean-vegetation model with mid-Holocene palaeobotanic data for the Northern extratropics

**XY0174; EGU2008-A-04335; CL15-1TH5P-0174**

**Raddatz, T.; Brovkiv, V.; Gayler, V.; Reich, C.H.; Claussen, M.**
A Dynamic Land Cover Model for COSMOS

**XY0175; EGU2008-A-09264; CL15-1TH5P-0175**

**Paul, A.; Dupont, L.**
The role of tropical vegetation dynamics during Heinrich event 1

**XY0176; EGU2008-A-03949; CL15-1TH5P-0176**

**Henrot, A-J.; Munhoven, G.; François, L.**
Impacts of land surface properties on Last Glacial Maximum climate

**XY0177; EGU2008-A-05471; CL15-1TH5P-0177**

**Janssen, RHH; Meinders, M; van Nes, EH; Scheffer, M.**
Microscale vegetation-soil feedback boosts hysteresis in a regional vegetation-climate system

**XY0178; EGU2008-A-04241; CL15-1TH5P-0178**

**Alkama, R.; Kageyama, M.; Ramstein, G.; Davin, E.**
A sensitivity study to global desertification in cold and warm climates

**XY0179; EGU2008-A-11964; CL15-1TH5P-0179**

**Kammann, C.; Lenhart, K.; Müller, C.; Grünhage, L.; Jäger, H.-J.**
Positive feedback of future atmospheric CO2 concentrations on N2O emissions: Results from a 9-year FACE experiment

**XY0180; EGU2008-A-06690; CL15-1TH5P-0180**

**Churkina, G.; Brovkiv, V.; von Bloh, W.; Trusilova, K.; Jung, M.; Dentener, F.**
Synergy of rising nitrogen depositions and atmospheric CO2 on land carbon uptake offsets global warming (solicited)

**XY0181; EGU2008-A-03894; CL15-1TH5P-0181**

**Eliseev, A.V.; Mokhov, I.I.**
The climate-carbon cycle feedback: An eventual saturation

**XY0182; EGU2008-A-02801; CL15-1TH5P-0182**

**Bouttes, N.; Roche, D. M.; Paillard, D.**
Implication of a strong deep ocean stratification on the carbon cycle

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**XY0183; EGU2008-A-02198; CL15-1TH5P-0183**

**Atkinson, C.**
The effect of biochemical energy release on soil temperature

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**XY0184; EGU2008-A-02801; CL15-1TH5P-0184**

**Klein Goldewijk, K.**
Human influence on the global environment throughout the Holocene: results from HYDE 3.0 (solicited)

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**XY0185; EGU2008-A-02801; CL15-1TH5P-0185**

**Raddatz, T.; Claussen, M.**
A Dynamic Land Cover Model for COSMOS

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**XY0186; EGU2008-A-02801; CL15-1TH5P-0186**

**Paul, A.; Dupont, L.**
The role of tropical vegetation dynamics during Heinrich event 1

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**XY0187; EGU2008-A-02801; CL15-1TH5P-0187**

**Henrot, A-J.; Munhoven, G.; François, L.**
Impacts of land surface properties on Last Glacial Maximum climate

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**XY0188; EGU2008-A-02801; CL15-1TH5P-0188**

**Janssen, RHH; Meinders, M; van Nes, EH; Scheffer, M.**
Microscale vegetation-soil feedback boosts hysteresis in a regional vegetation-climate system

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**XY0189; EGU2008-A-02801; CL15-1TH5P-0189**

**Alkama, R.; Kageyama, M.; Ramstein, G.; Davin, E.**
A sensitivity study to global desertification in cold and warm climates

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**XY0190; EGU2008-A-02801; CL15-1TH5P-0190**

**Churkina, G.; Brovkiv, V.; von Bloh, W.; Trusilova, K.; Jung, M.; Dentener, F.**
Synergy of rising nitrogen depositions and atmospheric CO2 on land carbon uptake offsets global warming (solicited)

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**XY0191; EGU2008-A-02801; CL15-1TH5P-0191**

**Eliseev, A.V.; Mokhov, I.I.**
The climate-carbon cycle feedback: An eventual saturation

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**XY0192; EGU2008-A-02801; CL15-1TH5P-0192**

**Bouttes, N.; Roche, D. M.; Paillard, D.**
Implication of a strong deep ocean stratification on the carbon cycle
Forcing of Earth Climate: Modeling the Wavelength and Time Dependence of Solar
Chahalan, R.; Wen, G.; Pilewski, P.; Shindell, D.
16:45–17:00; EGU2008-A-09055; CL23-1TH3O-006

Comparison of measured and modelled downwelling Long-wave Infrared Radiation at Payerne, Switzerland

Aerosol- cloud- and greenhouse- surface forcing and the recent warming since the 1980s (solicited)
Philipona, R.; Ruckstuhl, C.; Nyeki, S.; Weller, M.; Mätzler, C.; Vuilleumier, L.; Behrens, K.; Aerosol and cloud effects on solar brightening and the recent rapid warming
XY0185: EGU2008-A-02185; CL23-1TH5P-0185

Earth radiation budgets in IPCC AR4 GCMs
Chiacchio, M.
15:00 COFFEE BREAK

Detection of surface radiation anomalies
Chiacchio, M.; Wild, M.; Ohmura, A.

Detecting trends of global solar radiation in the Arctic
XY0190: EGU2008-A-02124; CL23-1TH5P-0190

Climate Change – Posters

The Global Energy Balance Archive at ETH Zurich
XY0186: EGU2008-A-02212; CL23-1TH5P-0186

Evidence for increasing DTR during the early 20th century
Makowski, K.; Ohmura, A.; Müller, G.; Schär, C.

The Global Energy Balance Archive at ETH Zurich
XY0187: EGU2008-A-02217; CL23-1TH5P-0187

Combined surface solar brightening and increasing greenhouse effect favor recent intensification of the hydrological cycle
XY0188: EGU2008-A-02226; CL23-1TH5P-0188

Does observed and simulated cloudiness decadal variability in the Iberian Peninsula explain sunshine behavior?

Modeling the impact of radiation changes on the terrestrial carbon sink over the 1900-2000 period
Kishcha, P.; Starobinets, B.; Alpert, P.; Levy, R.; Remer, L.

Updating and modelling of the incoming solar radiation at the top of the atmosphere
König-Langlo, G.; Grobe, H.; Sieger, R.; Cohrs, W.
The World Radiation Monitoring Center at the Alfred Wegener Institute
XY0184: EGU2008-A-03023; CL23-1TH5P-0184

Enhanced temperature range over Europe between 1950 and 2005
Makowski, K.; Wild, M.; Ohmura, A.

Investigation of surface solar radiation anomalies during recent years in Europe
XY0185: EGU2008-A-02185; CL23-1TH5P-0185

XY0186: EGU2008-A-02212; CL23-1TH5P-0186

XY0187: EGU2008-A-02217; CL23-1TH5P-0187

XY0188: EGU2008-A-02226; CL23-1TH5P-0188

XY0189: EGU2008-A-02436; CL23-1TH5P-0189

XY0190: EGU2008-A-02124; CL23-1TH5P-0190

XY0191: EGU2008-A-03196; CL23-1TH5P-0191

XY0192: EGU2008-A-03131; CL23-1TH5P-0192


Detection of surface radiation anomalies
XY0193: EGU2008-A-03184; CL23-1TH5P-0193

Viúdez, A.; Calbó, J.; González, J-A
Clear sky downwelling longwave radiation at the surface. Simulations and measurements at Girona, Spain
XY0194: EGU2008-A-08968; CL23-1TH5P-0194

Does observed and simulated cloudiness decadal variability in the Iberian Peninsula explain sunshine behavior?
XY0195: EGU2008-A-09693; CL23-1TH5P-0195

Wacker, S.; Viúdez, A.; Gröber, J.; Rozanov, E.; Vuilleumier, L.

Poster Area Halls X/Y
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
Chairperson: N.N.
XY0183: EGU2008-A-01169; CL23-1TH5P-0183

Traeger-Chatterjee, C., Hollmann, R., Mueller, R. W.
Investigation of surface solar radiation anomalies during recent years in Europe
XY0184: EGU2008-A-03023; CL23-1TH5P-0184

Philippona, R.; Ruckstuhl, C.; Nyeki, S.; Weller, M.; Mätzler, C.; Vuilleumier, L.; Behrens, K.
Aerosol and cloud effects on solar brightening and the recent rapid warming
XY0185: EGU2008-A-02185; CL23-1TH5P-0185

Wild, M.; Makowski, K.; Ohmura, A.
Fade of global dimming reveals full magnitude of greenhouse warming
XY0186: EGU2008-A-02212; CL23-1TH5P-0186

Wild, M.; Ohmura, A.; Müller, G.; Schär, C.
The Global Energy Balance Archive at ETH Zurich
XY0187: EGU2008-A-02217; CL23-1TH5P-0187

Wild, M.; Grieser, J.; Schär, C.

Combined surface solar brightening and increasing greenhouse effect favor recent intensification of the hydrological cycle
XY0188: EGU2008-A-02226; CL23-1TH5P-0188

Wild, M.

Earth radiation budgets in IPCC AR4 GCMs
Chiacchio, M.

Detecting trends of global solar radiation in the Arctic
XY0190: EGU2008-A-02124; CL23-1TH5P-0190

Chiacchio, M.; Wild, M.
Long-term seasonal variations of surface solar radiation in Europe
XY0191: EGU2008-A-03196; CL23-1TH5P-0191

Makowski, K.; Wild, M.; Sanchez-Lorenzo, A.; Ohmura, A.
Evidence for increasing DTR during the early 20th century
XY0192: EGU2008-A-03131; CL23-1TH5P-0192


Determination of surface radiation anomalies
XY0193: EGU2008-A-03184; CL23-1TH5P-0193

Viúdez, A.; Calbó, J.; González, J-A
Clear sky downwelling longwave radiation at the surface. Simulations and measurements at Girona, Spain
XY0194: EGU2008-A-08968; CL23-1TH5P-0194

Does observed and simulated cloudiness decadal variability in the Iberian Peninsula explain sunshine behavior?
XY0195: EGU2008-A-09693; CL23-1TH5P-0195

Wacker, S.; Viúdez, A.; Gröber, J.; Rozanov, E.; Vuilleumier, L.

Comparison of measured and modelled downwelling Long-wave Infrared Radiation at Payerne, Switzerland

Level 32
XY0196; EGU2008-A-09696; CL23-1TH5P-0196
Bodas-Salcedo, A.; Ringer, M. A.; Jones, A.
Evaluation of the Surface Radiation Budget in the atmospheric component of the Hadley Centre Global Environmental Model (HadGEM1)

XY0197; EGU2008-A-10214; CL23-1TH5P-0197
Aerosol direct radiative effect on solar radiation over the Mediterranean Basin based on spectral aerosol optical properties from MODIS

XY0198; EGU2008-A-10864; CL23-1TH5P-0198
Rowe, P.; Walden, V.
Refined measurements of the foreign-broadened continuum of water vapor in the 6.3 μm band at -30 °C

XY0199; EGU2008-A-11502; CL23-1TH5P-0199
McDonald, A. B.
An error common to all models

XY0200; EGU2008-A-11809; CL23-1TH5P-0200
Will, A.; Woldt, M.; Schaller, E.
Surface radiation budget in regional climate simulations and the high quality Satellite Product of CM-SAF

XY0201; EGU2008-A-07689; CL23-1TH5P-0201
Stefan, S.; Nicolae, D.; Filip, L.; Aldea, A.
Radiative properties of clouds in atmospheric boundary layer

XY0202; EGU2008-A-06613; CL23-1TH5P-0202
Fomin, B; Ginzburg, A; Romanov, S
Line-by-line calculation of aerosol radiative forcing for radiative-convective climate model

XY0203; EGU2008-A-03107; CL23-1TH5P-0203
Medhaug, I.; Olseth, J.A.; Reuder, J.
Reconstruction of UV-radiation in Norway

XY0204; EGU2008-A-08617; CL23-1TH5P-0204
Roesch, A.; Wild, M.; Dutton, E.; Long, C.
The quality of the BSRN measurements and its influence on the computation of monthly means

XY0205; EGU2008-A-11004; CL23-1TH5P-0205
Wonsick, M.; Pinker, R. T.
Investigation of the "Elevated Heat Pump" Effect on the Asian Summer Monsoon using Cloud Observations from METEOSAT-5 (cancelled)

CL28 Climate of the last millennium: reconstructions, analyses and explanation of regional and seasonal changes

Convener: Mann, M.
Co-Conveners(s): Jones, P., Jouzel, J.
Lecture Room 13
Chairperson: JONES, P. D.
8:30–9:00; EGU2008-A-05364; CL28-1IT10-001
Hughes, M; Salzer, M; Ammann, C; Franklin, R
A process-based modeling approach to the interpretation of high-elevation tree-ring records in the western US. (solicited)

9:00–9:15; EGU2008-A-01286; CL28-1IT10-002
Emile-Geay, JEG; Cobb, KMC; Mann, MEM
Experimental reconstructions of tropical Pacific sea-surface temperature over the past millennium

9:15–9:30; EGU2008-A-08168; CL28-1IT10-003
McCarroll, D
The 'Millennium project': reconstructing the climate of Europe over the last 1000 years

9:30–9:45; EGU2008-A-03940; CL28-1IT10-004
Last-millennium moisture and temperature variations in northern Europe based on proxy data

9:45–10:00; EGU2008-A-05734; CL28-1IT10-005
Winther, B.M.; Jones, P.; Briffa, K.; Clausen, H.B.; Andersen, K.K.; Dahl-Jensen, D.; Johnsen, S.J.
Greenland winter season stable isotope data – a proxy for annual average Greenland temperatures for the past 1400 years (solicited)

10:00 COFFEE BREAK

Chairperson: JOUZEL, J.
10:30–10:45; EGU2008-A-03970; CL28-1IT20-001
Trouet, V.; Espar, T.; Graham, N.; Baker, A.; Frank, D.
A multiproxy reconstruction of decadal scale winter NAO variations over the past millennium

10:45–11:00; EGU2008-A-04754; CL28-1IT20-002
Graham, N.; Espar, T.; Frank, D.; Hughes, M.; Thompson, L.; Trouet, V.
A strong winter NAO during Medieval time: European / North Atlantic climate during the past millennium as seen in proxy-guided coupled model-based reconstructions.

11:00–11:15; EGU2008-A-06702; CL28-1IT20-003
Kleinen, T; Osborn, T; Briffa, K
Testing hypotheses on Little Ice Age climate

11:15–11:30; EGU2008-A-05985; CL28-1IT20-004
Ammann, C.M.; Graham, N.E.; D’Arrigo, R.; Kiefer, T.
The PAGES/CLIVAR PaleoClimate Reconstruction (PR) Challenge (solicited)

11:30–11:45; EGU2008-A-04273; CL28-1IT20-005
Smardon, J. E.; Chang, D.; Kaplan, A.; Evans, M. N.; Cook, E. R.
A comparison of climate field reconstruction methods using millennial pseudo-proxy experiments

11:45–12:00; EGU2008-A-09920; CL28-1IT20-006
Riedwyl, N.; Luterbacher, J.; Räuber, C.C.; Wanner, H.
Reconstruction of European summer and winter surface air temperature fields: Applications and constraints

12:00 END OF SESSION

CL28 Climate of the last millennium: reconstructions, analyses and explanation of regional and seasonal changes – Posters

Convener: Mann, M.
Co-Conveners(s): Jones, P., Jouzel, J.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0206; EGU2008-A-05032; CL28-1IT5P-0206
Mortyn, P.G.; Martínez-Botí, M.A.; Herguera, J.C.
ENSO- and PDO-related SST reconstructions from the Anthropocene into the last millennium: planktonic foraminiferal Mg/Ca evidence at quasi-annual to multi-annual resolution from San Lázaro Basin (NE Pacific)
XY0207; EGU2008-A-05080; CL28-1TH5P-0207
Abrupt early 20th century freshening of the western subtropical North Pacific Ocean

XY0208; EGU2008-A-08479; CL28-1TH5P-0208
Johansen, L. V.; Kleiven, H. F.; Ninnemann, U. N.
Atlantic Meridional Overturning Circulation since 800 AD and its link to surface climate variability

XY0209; EGU2008-A-10840; CL28-1TH5P-0209
The Variability of Stable Water Isotopes in an Alpine Ice-core over the last 1000 Years

XY0210; EGU2008-A-10125; CL28-1TH5P-0210
Rueda, G.; Escala, M.; Rosell-Melé, A.; Gyllencreutz, R.; Backman, J.
Multi-decadal air and sea surface temperature records for the last 2000 years from a marine core in the Skagerrak, offshore southern Norway.

XY0211; EGU2008-A-11279; CL28-1TH5P-0211
Kirchhefer, A.; Young, G.; Gunnarson, B.; Loader, N.; McCarroll, D.
Climate from a millennial pine chronology in coastal North-Norway

XY0212; EGU2008-A-02659; CL28-1TH5P-0212
Dobrovolny, P.; Brazdil, R.; Halickova, M.; Mackova, J.; Kotyzova, O.; Valsek, H.
Temperature reconstruction based on documentary evidence for the Czech Republic, AD 1501-2006

XY0213; EGU2008-A-09562; CL28-1TH5P-0213
Bullón, T.
Reconstruction of winter temperatures based on documentary sources in the central area of the Iberian peninsula during the second half of the XVI century

XY0214; EGU2008-A-02396; CL28-1TH5P-0214
Crespin, E.; Goosse, H.; Fichefet, T.; Mann, M.E.
Simulating the climate of the Arctic during the last millenium in a coupled climate model including data assimilation

XY0215; EGU2008-A-08528; CL28-1TH5P-0215
The importance of ship log data: reconstructing North Atlantic climate during the last millennium: results from the IPSL coupled model.

XY0216; EGU2008-A-02494; CL28-1TH5P-0216
Assessing a snow frequency reconstruction in the central Argentinean Andes without using instrumental precipitation records

XY0217; EGU2008-A-03185; CL28-1TH5P-0217
Sirocko, F.; Dietrich, S.; Pfahl, S.; Herbig, C.
Flash floods of the last 1000 years in central Europe documented by laminated freeze cores from Eifel maar lakes

XY0218; EGU2008-A-08212; CL28-1TH5P-0218
Hansson, D.; Süderberg, J
Is there a warm bias in the late winter and early spring Uppsala air temperature 1722-1750?

XY0219; EGU2008-A-03763; CL28-1TH5P-0219
Griesser, T.; Brönnimann, S.
Reconstruction of global monthly upper-level temperature and GPH back to 1880

XY0220; EGU2008-A-07039; CL28-1TH5P-0220
Christiansen, B.; Schmith, T.; Thell, P.
A surrogate ensemble study of climate reconstruction methods: Stochasticity and robustness.

XY0221; EGU2008-A-04263; CL28-1TH5P-0221
Chang, D.; Smerdon, J.; Kaplan, A.; Evans, M.; Cook, E.
Testing canonical correlation analysis as a climate field reconstruction method using pseudo-proxy experiments

XY0222; EGU2008-A-07952; CL28-1TH5P-0222
Stössel, M.; Küttel, M.; Luterbacher, J.; Wanner, H.
Reconstruction of precipitation in Europe: in search of an optimised proxy network

XY0223; EGU2008-A-06256; CL28-1TH5P-0223
Atmosphere and ocean dynamics; contributions to the European "Little Ice Age"?

XY0224; EGU2008-A-00749; CL28-1TH5P-0224
Role of volcanic forcing on North Atlantic climate during the last millennium: results from the IPSL coupled model.

XY0225; EGU2008-A-07368; CL28-1TH5P-0225
Jungclaus, J.H.; THE COMSIMM TEAM, and; THE COMSIMM TEAM
Community Simulations of the last Millennium (COM-SIMM)

XY0226; EGU2008-A-08240; CL28-1TH5P-0226
Lorenz, S. J.; Timmreck, C.; Crowley, T. J.; Jungclaus, J.; Kinne, S.; Schlese, U.; Thomas, M.
Understanding the Climate Signal of the 1258 Eruption

XY0227; EGU2008-A-09158; CL28-1TH5P-0227
Yamazaki, YH; Huntingford, C; Allen, MR; Frame, DJ
Maximum likelihood approach for model-data comparison and unbiased estimate of climate sensitivity over the last millennium

XY0228; EGU2008-A-02958; CL28-1TH5P-0228
Liu, X
Pedogenic modification of magnetic susceptibility recording paleoclimatic signals ‘C an explanation of regional changes to Alaskan, Chinese and Siberian loess

XY0229; EGU2008-A-10863; CL28-1TH5P-0229
Dirksen, V.
Last millennium coniferous expansion on Kamchatka: is it result of vegetation succession or climate-forced phenomenon?

XY0230; EGU2008-A-00412; CL28-1TH5P-0230
Pugacheva, E.; Solomina, O.; Mikhalenko, V
The first attempt of spring precipitation reconstruction in South Kamchatka, using ring width of Stone Birch (Betula Ermanii Cham.)
14:00–14:15; EGU2008-A-10017; CL35-1TH3O-002
Hopcroft, P.O.; Gallagher, K.; Pain, C.C.
Inferring spatial climatic trends from borehole data using a Bayesian partition model

14:15–14:30; EGU2008-A-03818; CL35-1TH3O-003
Dedeeck, P.; Safanda, J.; Heidinger, P.; Kukkonen, I.; Rajver, D.
Anthropogenic component of the subsurface temperature field: observed and synthetic examples

14:30–14:45; EGU2008-A-02314; CL35-1TH3O-004
Mote, P.; Brown, R.
Response of Northern Hemisphere snow cover to a changing climate (solicited)

14:45–15:00; EGU2008-A-10558; CL35-1TH3O-005
Farbrot, H.; Etzelmuller, B.; Isaksen, K.; Schuler, T.V.; Christiansen, H.H.
Towards a TTOP-model for Northern Norway

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2008-A-01417; CL35-1TH4O-001
Woodbury, A.; Bhuiyan, H.; Hanesiak, J.; Ferguson, G.
Observations of northern latitude ground-surface and surface-air temperatures

15:45–16:00; EGU2008-A-12033; CL35-1TH4O-002
Sushama, L.
Modelling current and future soil thermal and moisture regimes for North American permafrost zones (solicited)

16:00–16:15; EGU2008-A-10380; CL35-1TH4O-003
The role of land-atmosphere interactions in simulating the climate of the Iberian Peninsula.

16:15–16:30; EGU2008-A-05274; CL35-1TH4O-004
Stevens, M.B.; González-Rouco, J.F.; Beltrami, H.
Borehole temperatures and ECHO-g paleoclimatic simulations: Developing comparison strategies

16:30–16:45; EGU2008-A-10766; CL35-1TH4O-005
Tarasov, L.
The co-evolution of continental ice cover and 3D ground temperature over the last glacial cycle (solicited)

16:45–17:00; EGU2008-A-12113; CL35-1TH4O-006
Rath, V.; Safanda, J.; Gonzalez Rouco, J. F.
Open questions in borehole temperature research

17:00 END OF SESSION

CL35 Subsurface temperature signals of climate change, processes involved, and importance to climate modeling (co-listed in CR, GI, HS, & SSS) – Posters

Convener: Rath, V.
Co-Convener(s): Gonzalez-Rouco, J., Safanda, J.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0231; EGU2008-A-09753; CL35-1TH5P-0231
González-Rouco, J. F.; Beltrami, H.; Goosse, H.; Rath, V.; Stevens, M. B.
Uncertainty in simulated borehole temperature profiles: relevance for comparison with observational evidence.

XY0232; EGU2008-A-01316; CL35-1TH5P-0232
Rath, V.
On the role of the Holocene warming for the interpretation of borehole temperatures

XY0233; EGU2008-A-05264; CL35-1TH5P-0233
MacDougall, A.; González-Rouco, J.F.; Stevens, M.B.; Beltrami, H.
Quantification of subsurface heat storage in GCM simulations: the case of ECHO-g

XY0234; EGU2008-A-05267; CL35-1TH5P-0234
Stevens, M.B.; González-Rouco, J.F.; Beltrami, H.
Global variability of heat storage sensitivity to bottom boundary placement in climate models

XY0235; EGU2008-A-04428; CL35-1TH5P-0235
Majorowicz, J.; Skinner, W.; Gosnold, W.; Safanda, J.
Heat energy gain for the last two decades from Canadian Prairies from repeated borehole temperature logs

XY0236; EGU2008-A-08964; CL35-1TH5P-0236
Borehole climatology: In search of the long-term subsurface thermal signature of deforestation events

XY0237; EGU2008-A-09976; CL35-1TH5P-0237
González-Rouco, J. F.; Beltrami, H.; Stevens, M. B.; Zorita, E.
The lower-boundary effect on simulated temperature signals in the terrestrial subsurface: An example from the ECHO-g

XY0238; EGU2008-A-09478; CL35-1TH5P-0238
Smerdon, J.E.; Gonzalez-Rouco, J.F.; Stieglitz, M.; Stevens, M. B.; Beltrami, H.; Zorita, E.
Quantification of subsurface heat storage in GCM simulations: steps towards comparison over Europe.

XY0239; EGU2008-A-02137; CL35-1TH5P-0239
Safanda, J.; Wilhelm, H.; Heidinger, P.; Cermak, V.
Numerical simulation of transient temperature logs of borehole Yaxcopoil-1, Chicxulub impact structure, Mexico

XY0240; EGU2008-A-07718; CL35-1TH5P-0240
Ferguson, G.; Woodbury, A.D.
The Subsurface Urban Heat Island Effect

XY0241; EGU2008-A-03371; CL35-1TH5P-0241
Bodri, L.; Cermak, V.; Safanda, J.
Thermal instability of the fluid column in a borehole, application to the Yaxcopoil hole

XY0242; EGU2008-A-03287; CL35-1TH5P-0242
Rath, V.; Henninges, J.
Paleoclimate inversions at the Mallik 3L-38 borehole, including latent heat effects

XY0243; EGU2008-A-05427; CL35-1TH5P-0243
Mottaghy, D.; Majorowicz, J.; Rath, V.
Ground surface temperature histories reconstructed from boreholes in Poland: implications for spatial variability?

XY0244; EGU2008-A-10713; CL35-1TH5P-0244
Dijkstra, L.; Mottaghy, D.; Rath, V.
Paleoclimate near the Kola deep drilling site: a detailed 3-D inverse modeling study

XY0245; EGU2008-A-07127; CL35-1TH5P-0245
Buecker, M.; Rath, V.; Vehreschild, A.
Automatic differentiation - can it help with GSTH inversions?
Results from repeated temperature measurements and from long-term temperature monitoring in borehole TGQC-1, south-central Portugal.

Geothermal investigations in Kun-1 borehole (Kunashir island)

Validation of a modeled 3D temperature field below the Schilthorn Crest, Switzerland, using borehole measurements and time-lapse electrical resistivity data

Permafrost Monitoring in northern Norway: Initial Results from the IPY-project TSP NORWAY

CL57 Climate variability and change in a tourism context

Convener: Amelung, B.
Co-Conveners: Perch-Nielsen, S., Gómez Martín, B.
Lecture Room 14
Chairperson: N.N.

15:30–15:45; EGU2008-A-12275; CL57-1TH4O-001
Perch-Nielsen, S.
A Comparison of Climatic Indices for Tourism

15:45–16:00; EGU2008-A-11544; CL57-1TH4O-002
Vrtáčník Garbas, K.
Strategies of Adapting Winter-Sport Tourism and Recreation to Climate Changes - the Case of Slovenia

16:00–16:15; EGU2008-A-08476; CL57-1TH4O-003
Proebstl, U.; Prutsch, A.
Tourism and climate change: requirements for adapted regional management

16:15 END OF SESSION

CL57 Climate variability and change in a tourism context – Posters

Convener: Amelung, B.
Co-Conveners: Perch-Nielsen, S., Gómez Martín, B.
Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 17:30–19:00

Poster Area Halls X/Y
Chairperson: N.N.

XY0246; EGU2008-A-07663; CL57-1TH5P-0246
Correia, A.; Safanda, J.; Dedecek, P.
Results from repeated temperature measurements and from long-term temperature monitoring in borehole TGQC-1, south-central Portugal.

XY0247; EGU2008-A-01218; CL57-1TH5P-0247
Demezhko, D.; Urkov, A.; Ryvkin, D.; Zharkov, R.
Geothermal investigations in Kun-1 borehole (Kunashir island)

XY0248; EGU2008-A-09987; CL57-1TH5P-0248
Validation of a modeled 3D temperature field below the Schilthorn Crest, Switzerland, using borehole measurements and time-lapse electrical resistivity data

XY0249; EGU2008-A-10431; CL57-1TH5P-0249
Isaksen, K.; Farbrot, H.; Etzelmüller, B.; Christiansen, H.H.; Blikra, L.H.; Midttømme, K.; Rønning, J.S.
Permafrost Monitoring in northern Norway: Initial Results from the IPY-project TSP NORWAY

CL5 Climate of the Polar Regions

Convener: Wadhams, P.
Co-Conveners: Piacsek, S.
Lecture Room 14
Chairperson: N.N.

Gascard, J-C.; Maksimovich, E.
Were recent climate changes occurring in the Arctic predictable?

13:45–14:00; EGU2008-A-05084; CL5-1FR3O-002
Semenov, V.A.; Dommenget, D.; Stroeh, A.
Can Arctic warm the Earth?

14:00–14:15; EGU2008-A-07683; CL5-1FR3O-003
Grant, A.; Brönnimann, S.; Grieser, T.
Early 20th century and recent Arctic warming: A three-dimensional view

14:15–14:30; EGU2008-A-08442; CL5-1FR3O-004
Wadhams, P.; Rodrigues, J.
Arctic sea ice thickness and topography in winter 2007 mapped from a submarine

14:30–14:45; EGU2008-A-05044; CL5-1FR3O-005
Popov, A.
Influence of Flaw Polynyas on Formation of Ice Cover Anomalies of the Arctic Seas

14:45–15:00; EGU2008-A-11258; CL5-1FR3O-006
Cox, J.; Gyakum, J.
Intense regional climate change in northwestern Canada

15:00 END OF SESSION

CL5 Climate of the Polar Regions – Posters

Convener: Wadhams, P.
Co-Conveners: Piacsek, S.
Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 15:30–17:00

Poster Area Halls X/Y
Chairperson: N.N.

XY0250; EGU2008-A-04069; CL57-1TH5P-0252
Casimiro, E.; Capela Lourenço, T.; Aguiar, R.; Duarte Santos, F.
Tourism Sector Resilience to Climate Change in Portugal: Adaptation to Heatwaves and Thermal Comfort Changes

XY0253; EGU2008-A-05652; CL57-1TH5P-0253
Cegnar, T.
Climate change impacts on tourism in Slovenia and corresponding adaptation strategies

XY0254; EGU2008-A-10781; CL57-1TH5P-0254
Luthe, T.; Roth, R.
Climate change impacts on tourism demand in ski destinations
XY0140; EGU2008-A-07694; CL5-1FR4P-0140
Olkonen, A.; Haapala, J.
Variability and Changes of Arctic Sea Ice Cover from Submarine Sonar Measurements, 1975-2000

XY0141; EGU2008-A-04395; CL5-1FR4P-0141
Cassano, J.; Cassano, E.
The atmospheric state during the summer of 2007 (cancelled)

XY0142; EGU2008-A-04650; CL5-1FR4P-0142
Wagner, A.; Lohmann, G.; Prange, M.
Variability of Eurasian river discharges during Holocene time slices; potential influence on Arctic climate

XY0143; EGU2008-A-02789; CL5-1FR4P-0143
Kasatkina, E.A.; Shumilov, O.I.; Lukina, N.V.; Kanat�ev, A.G.; Kirtsideli, I.Y.
Climate of the European Polar Region on the longest pine tree-ring chronology from Kola Peninsula

XY0144; EGU2008-A-11117; CL5-1FR4P-0144
Läskä, K.; Prošek, P.; Barták, M.; Elster, J.; Míla, P.
Climate measurements as a part of multidisciplinary project at the James Ross Island, Antarctica

XY0145; EGU2008-A-00387; CL5-1FR4P-0145
Kovalenko, S.; Evtushhevsky, O.; Grysťaï, A.; Milinevsky, G.
Antarctic total ozone distribution climatology in connection with possible impact to ecosystem

XY0146; EGU2008-A-05233; CL5-1FR4P-0146
Läskä, K.; Prošek, P.; Budík, L.; Budíková, M.; Milinevsky, G.
Modelling of erythemally effective UVB radiation in dependence on the atmospheric factors

CL7 Land-Atmosphere-Ocean linkages throughout the Quaternary

Convener: Stuut, J.
Co-Conveners: Kershaw, P., Cacho, I., Kiefer, T.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: KERSHAW-KIEFER-STUUT

XY0147; EGU2008-A-05216; CL7-1FR4P-0147
Annual record of environmental history in corals and tree-rings – a land-sea correlation at Ogasawara Islands, Japan

XY0148; EGU2008-A-04305; CL7-1FR4P-0148
Abrantes, F.; Montanari, B.; Rodrigues, T.; Santos, C.; Voelker, A.
Primary Productivity evolution during the Latest Holocene (2,000 yr) off Oporto (Portuguese Margin)

XY0149; EGU2008-A-08473; CL7-1FR4P-0149
Muellegger, S.; Piller, W.E.
The Holocene Southeast Atlantic: Paleoceanographic interpretations based on sedimentological and geochemical proxy-data

XY0150; EGU2008-A-06374; CL7-1FR4P-0150
Kuhlmann, H.; Pätzold, J.; Weldeab, S.; Schneider, R.
Hydrological changes in the southeastern African tropics during the deglaciation and Holocene

XY0151; EGU2008-A-10345; CL7-1FR4P-0151
McClymont, E.L.; Ganeshram, R.
Millennial-scale response and impact of climate variability in the Gulf of California across the LGM/Holocene transition

XY0152; EGU2008-A-00813; CL7-1FR4P-0152
Mena, A.; Francés, G.; González-Alvarez, R.; Hanebuth, T.
Preliminary data about planktonic foraminifera assemblages: Paleotemperature record and Heinrich events from Galicia continental slope

XY0153; EGU2008-A-08147; CL7-1FR4P-0153
Stuut, J.B.W.; Mulitza, S.; Zabel, M.
Aridity changes in the Sahel and their relation to Atlantic-Ocean circulation during the last 57 kyr: inferences from marine sediments off Senegal

XY0154; EGU2008-A-09844; CL7-1FR4P-0154
Breideny, J.; Grasmo, K.; Halflidason, H.; Zuhltdorff, C.; Sejrup, H.P.
Ocean – Ice-sheet interaction and tephrastratigraphy from the SE Nordic Seas region between 50-150 ka

XY0155; EGU2008-A-10570; CL7-1FR4P-0155
Tzedakis, P.C.; Roucoux, K.H.; Pálík, H.; de Abreu, L.
Linking marine and terrestrial records in the Portuguese margin and comparisons with Antarctic records 170-420 ka

XY0156; EGU2008-A-06951; CL7-1FR1O-006
Kershaw, P.; Sniderman, K; van der Kaars, S.; Wagstaff, B.
Comparison of orbital-scale land and ocean records from the Australian region: value for climate reconstruction

10:00 END OF SESSION
XY0156; EGU2008-A-03013; CL7-1FR4P-0156


Continuous air isotopic measurements over MIS 4 and 5 in the NorthGRIP ice core (Greenland): new constraints on the sequences of Dansgaard-Oeschger (DO) events and links with environmental changes.

XY0157; EGU2008-A-05931; CL7-1FR4P-0157

Drysdale, R.; Hellstrom, J.; Zanchetta, G.; Fallick, A.; Couchood, I.; Sanchez Goni, M-F.; McDonald, J.; Lohmann, G.; Isola, I.

A radiometric chronology for the Iberian margin marine sequence through Termination II: implications for inter-hemispheric phasing of deglaciation.

XY0158; EGU2008-A-06983; CL7-1FR4P-0158

Hibbert, F. D.; Austin, W.E.N.; Peters, C.; Leng, M. J.; Garthoff, R.

Response of the British Ice Sheets to climate forcing over the last 250,000 years.

XY0159; EGU2008-A-09428; CL7-1FR4P-0159

Toucanne, S.; Zazagosi, S.; Eynaud, F.; Bourillet, J.F.; Turon, J.L.; Cremer, M.; Cortijo, E.

Timing of massive ‘Fleuve Manche’ palaeoriver discharges over the last 400 kyr: Deglaciation patterns of the European ice sheet between MIS 10 to MIS 2

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### CL26 Past, Present and Future Changes in Ocean Circulation: Data and Models

**Convener:** Rahmstorf, S.

**Co-Convener(s):** Marchal, O., Waelbroeck, C.

**Lecture Room:** 26

**Chairperson:** N.N.

**Display Time:** Friday, 08:00–19:30

**Authors in Attendance:** Friday, 15:30–17:00

#### 13:30–13:45

**EGU2008-A-02648; CL26-1FR3O-001**

**Oliver, K.**; Edwards, N.

What causes ocean heat transport into the modern Atlantic Ocean?

#### 13:45–14:00

**EGU2008-A-06515; CL26-1FR3O-002**

**Boening, P.**; Bard, E

Millellanal-scale thermocline ventilation changes in the Indian Ocean as implied from aragonite preservation in the Arabian Sea

#### 14:00–14:15

**EGU2008-A-10890; CL26-1FR3O-003**

**Nilsson, J.**; Körnich, H.

Climate change and the surface salinity distribution in the ocean Hadley cell

#### 14:15–14:30

**EGU2008-A-00457; CL26-1FR3O-004**


Millellanal-scale variation of intermediate water intensity in the Bering Sea during the last glacial-interglacial cycle

#### 14:30–14:45

**EGU2008-A-01390; CL26-1FR3O-005**

**Sijp, W.**; England, M.

Isopycnical mixing controls NADW stability in ocean models

#### 14:45–15:00

**EGU2008-A-02744; CL26-1FR3O-006**

**McCave, L.N.**; Carter, L.; Hall, I.R.

Glacial-interglacial changes in water mass structure and flow in the

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**15:00 END OF SESSION**

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### CL26 Past, Present and Future Changes in Ocean Circulation: Data and Models – Posters

**Convener:** Rahmstorf, S.

**Co-Convener(s):** Marchal, O., Waelbroeck, C.

**Display Time:** Friday, 08:00–19:30

**Authors in Attendance:** Friday, 15:30–17:00

**Poster Area Halls X/Y**

**Chairperson:** N.N.

**XY0160; EGU2008-A-10527; CL26-1FR4P-0160**

**Maher, B.A.; Watkins, S.J.; Bigg, G.R.**

North Atlantic circulation at the last glacial maximum from magnetic and modelling approaches

**XY0161; EGU2008-A-00829; CL26-1FR4P-0161**

**Neitze, L.**; Wright, J.; Henderson, S.

Tracking variations in North Atlantic Deep Water Flow on Eirik Drift

**XY0162; EGU2008-A-01228; CL26-1FR4P-0162**

**Swingedouw, D.**; Fichefet, T.; Goosse, H.; Loutre, MF

Impact of transient freshwater release in the Southern Ocean on the AMOC and climate

**XY0163; EGU2008-A-05519; CL26-1FR4P-0163**

**Alvarez-Solás, J.**; Charbit, S.; Paillard, D.; Ramstein, G.; Dumas, C.

Investigating the response of the climate-ice sheet system at millennial time-scale for different global warming scenarios

**XY0164; EGU2008-A-08973; CL26-1FR4P-0164**


Oceanic circulation changes over the last glacial inception: timing and links between polar latitudes of both hemispheres

**XY0165; EGU2008-A-00251; CL26-1FR4P-0165**

**Trevena, J.**; Sijp, W. P.; England, M. H.

Stability of Antarctic Bottom Water formation to freshwater fluxes and implications for global climate

**XY0166; EGU2008-A-00914; CL26-1FR4P-0166**

**Jones, C L; Bigg, G R**

Modelling the climatic impact of the glacial Barents Ice Sheet collapse

**XY0167; EGU2008-A-01356; CL26-1FR4P-0167**

**Kim, S.-J.; Park, Y.-G.**

Glacial Ocean Circulation and Property Changes in the North Pacific

**XY0168; EGU2008-A-01605; CL26-1FR4P-0168**

**Kim, B.-M.; An, S.-I.; Timmermann, A.**

Influence of pan-oceanic connections on tropical climate during Eocene-Paleocene

**XY0169; EGU2008-A-01740; CL26-1FR4P-0169**

**Saenko, O.**

Warm climate episodes in the subpolar Atlantic caused by large freshwater fluxes at the ocean boundaries (cancelled)

**XY0170; EGU2008-A-05283; CL26-1FR4P-0170**

**Uchida, M.; Ohkushi, K.; Kennett, JP.; Kimoto, K.; Eglinton, T.**

Deglacial Ventilation History in North Pacific Intermediate Water: Anti-phased with Atlantic Overturning Circulation

**XY0171; EGU2008-A-06893; CL26-1FR4P-0172**

**Carriquiry, J.D.; Rosell-Mé, A..**

Denitrification intensification during the last deglaciation in the eastern tropical north pacific off Mexico
CL27 Regional Climate Modeling and impacts

Convener: Zakey, A.
Lecture Room 13
Chairperson: N.N.
8:30–8:45; EGU2008-A-02262; CL27-1FR1O-001
Kjellström, E.
Evaluating regional climate model simulations of daily maximum and minimum temperatures in the ENSEMBLES project
8:45–9:00; EGU2008-A-02585; CL27-1FR1O-002
Rauscher, S. A.; Giorgi, F.; Diffenbaugh, N. S.
Regional-scale processes associated with future summer drying over Central America
9:00–9:15; EGU2008-A-02748; CL27-1FR1O-003
Zakey, A.S.; Giorgi, F.; BI, X.
Study of DMS Cycle in Regional Climate Model: Emission Fluxes and Oxidations
9:15–9:30; EGU2008-A-02954; CL27-1FR1O-004
Arritt, R.; THE NARCCAP TEAM
Inter-model variability of precipitation in results from the North American Regional Climate Change Assessment Program (NARCCAP)
9:30–9:45; EGU2008-A-04085; CL27-1FR1O-005
Im, E.-S.; Giorgi, F.; Kwon, W.-T.
Sensitivity of recent and future regional climate simulations to two convection schemes in the RegCM3 nesting system
9:45–10:00; EGU2008-A-05619; CL27-1FR1O-006
The PROTHEUS Team, ; Calmanti, S.; The PROTHEUS Team
Sensitivity of a regional Climate model for the mediterranean area to ocean-atmosphere coupling.
10:00 COFFEE BREAK

Chairperson: N.N.
10:30–10:45; EGU2008-A-06047; CL27-1FR2O-001
karimian, marya; babaeian, iman; modirian, rahel; team of Climate Change Lab
Simulation of 1376 and 1379 winter precipitations using RegCM3 Regional Climate Model
10:45–11:00; EGU2008-A-06434; CL27-1FR2O-002
Szepszo, G.
Regional change of extreme characteristics over the Carpathian Basin based on different regional climate models
11:00–11:15; EGU2008-A-06640; CL27-1FR2O-003
Faggian et al., F; The ARTALE TEAM
Climate change on Mediterranean Region
11:15–11:30; EGU2008-A-06705; CL27-1FR2O-004
Sen, O.L.; Vogler, J.; Fox, J.
Role of land cover / land use change in montane mainland Southeast Asia in altering regional climate
11:30–11:45; EGU2008-A-07861; CL27-1FR2O-005
Mariotti, L.; Coppola, E.; Zakey, A.S.; Giorgi, F.; Tomasetti, B.; Verdecchia, M.
Effects of Saharan Dust on the West African monsoon and the Niger River Basin.
11:45–12:00; EGU2008-A-08271; CL27-1FR2O-006
Solmon, F.; Konaré, A.; Zakey, A.; Giorgi, F.
A regional climate modeling study of the effect of desert dust on the West African monsoon
12:00 LUNCH BREAK

Chairperson: N.N.
Krüger, B.C.; Katragkou, E.; Tegoulas, I.; Zanis, P.; Melas, D.; Rauscher, S.
Regional air quality modelling for Europe in a changing climate
13:45–14:00; EGU2008-A-09850; CL27-1FR3O-002
Gobiet, A.; Suklitsch, M.; Truhetz, H.
Quantification of high-resolution dynamical downsampling error components in the Alpine region
14:00–14:15; EGU2008-A-09865; CL27-1FR3O-003
Nadeem, I.; Formayer, H.
Influence of Sub-scale Land Surface Processes on the Simulation of RCM-modeled Surface Climate over the region of Complex Topography.
14:30–14:45; EGU2008-A-11025; CL27-1FR3O-005
Lorenz, P.; Jacob, D.
Can two-way nesting improve a regional climate model simulation?
14:45–15:00; EGU2008-A-11270; CL27-1FR3O-006
bessagnet, B; menut, L; meleux, F; Giorgi, F
Climate changes impact on air quality
15:00 END OF SESSION

CL27 Regional Climate Modeling and impacts – Posters

Convener: Zakey, A.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: N.N.
XY0173; EGU2008-A-10053; CL26-1FR4P-0173
Ortega, P.; Montoya, M.; González-Rouco, J. F.
The AMOC variability in millennial simulations with the ECHO-g atmosphere-ocean general circulation model
XY0174; EGU2008-A-00168; CL27-1FR4P-0174
Gao, X.J.; Shi, Y.; Song, R.Y.; Giorgi, F.
Reduction of Future Monsoon Precipitation over China: Comparison between a High Resolution RCM Simulation and the Driving GCM
XY0175; EGU2008-A-00170; CL27-1FR4P-0175
Xu, Y.; Gao, X.J.; Giorgi, F.
Regional variability of climate change hot-spots in East Asia
XY0176; EGU2008-A-00388; CL27-1FR4P-0176
Ferrone, A.; Matthews, B.; van Ypersele, J.P.
Investigating the impact of aviation on climate change in Europe with a regional climate model
XY0177; EGU2008-A-01122; CL27-1FR4P-0177
Saeed, S.; LIU, Y.; Rasul, G
Multiyear Hindcast Experiments of Summer Monsoon over Pakistan by Using a Nested Regional Climate Model (BCC_RegCM1.0)
CL32 Advances in Quaternary Geochronology (co-listed in GM) – Posters

Conveners: Duller, G.

Convener: Duller, G.
Co-Conveners: Lang, A., Hajdas, I., Kiefer, T.
Lecture Room 14
Chairperson: DULLER, G.A.T.; KIEFER, T.

10:30–10:45; EGU2008-A-10064; CL32-1FR2O-001
Atmospheric radiocarbon variation between 44 and 28 ka based on a U-series dated speleothem

10:45–11:00; EGU2008-A-03766; CL32-1FR2O-002
Radiochronometric dating of glacier ice on a microgram level - examples from the Alps and the Andes

11:00–11:15; EGU2008-A-00612; CL32-1FR2O-003
Lane, CS; Blockley, SPE; Trincardi, F.; Pollard, AM
Exploring geochemical variability within Lateglacial Italian tephra – seeking new tools for characterisation and correlation

11:15–11:30; EGU2008-A-00329; CL32-1FR2O-004
Thrasher, I.M.; Mauz, B.; Chiverrell, R.C.; Lang, A.
A lithofacies-based approach to OSL dating of ice-proximal sandar on the margins of the Irish Sea ice-stream

11:30–11:45; EGU2008-A-05899; CL32-1FR2O-005
Meyer, M. C.; Marjanac, L.; Jacobs, Z.; Roberts, R. G.
Luminescence geochronology and evaluation of the environmental dose rate for the Neanderthal deposits at Vindija Cave (Northern Croatia)

11:45–12:00; EGU2008-A-11217; CL32-1FR2O-006
Machalett, B.; Oches, E. A.; Frechen, M.; Zoller, L.
Amino acid geochronology as an independent test of numerical dating methods applied to Central Asian loess deposits

12:00 END OF SESSION

CL32 Advances in Quaternary Geochronology (co-listed in GM) – Posters

Conveners: Duller, G.

Convener: Duller, G.
Co-Conveners: Lang, A., Hajdas, I., Kiefer, T.
Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: Hajdas, I.; Lang, A.

XY0206; EGU2008-A-00680; CL32-1FR4P-0206
Hein, A.; Hulton, N.; Dunai, T.; Kaplan, M.
Patagonian glaciation of MIS 8 age from cosmogenic exposure dating of outwash terraces, 47°S, Argentina

XY0207; EGU2008-A-05212; CL32-1FR4P-0207
Ilgner, J.; Zech, R.; Veit, H.
Scaling matters – exposure age uncertainties from a user’s point of view with examples from the Central Andes

XY0208; EGU2008-A-00939; CL32-1FR4P-0208
Winkler, S.
Attempt to combine in situ cosmogenic nuclide (10Be) and relative-age Schmidt-hammer dating - first application in the Southern Alps of New Zealand

XY0209; EGU2008-A-07290; CL32-1FR4P-0209
Fisher, J.; Trofimovs, J.; Hart, M.; Sparks, S.; Talling, P.; Smart, C.; Leng, M.
An integrated approach to dating the geochronology of the Soufrière Hills Volcano, Montserrat, within marine sediments

XY0210; EGU2008-A-00696; CL32-1FR4P-0210
Ulgen, U. B.; Franzi, S.O.
Radionuclide dating (210Pb, 137Cs) of short core sediments from Lake Iznik (NW Turkey)

XY0211; EGU2008-A-11199; CL32-1FR4P-0211
Refining the age and rate of abrupt climate change during the Last Termination: an integrated Bayesian approach

XY0212; EGU2008-A-12084; CL32-1FR4P-0212
Chiverrell, R.C.; Foster, G.C.; Thomas, G.S.P; Marshall, P.; Hamilton, D.
Robust chronologies for landform development

XY0213; EGU2008-A-12083; CL32-1FR4P-0213
Tsukamoto, S.; Duller, G.A.T; Wintle, A.G.
Assessing the potential for luminescence dating of basalts

XY0214; EGU2008-A-09159; CL32-1FR4P-0214
Lukas, S.; Preusser, F.; Anselmetti, F.; Tinner, W.
Determination of palaeo-water content for OSL-dating of shallow lacustrine sediment sequences â?¿’ a limnological approach

XY0215; EGU2008-A-12382; CL32-1FR4P-0215
OSL dating and sedimentology of the Indian Ocean 2004 tsunami sediments from Thailand and the "8.1ka (Storegga) tsunami deposit in eastern Scotland

XY0216; EGU2008-A-12385; CL32-1FR4P-0216
Stanton, T.; Zillén, L.; Snowball, I.
Detection of possible errors in varve counting and 14C ages by use of the FENNOSTACK Holocene palaeomagnetic secular variation master curve
9:15-9:30; EGU2008-A-09658; CL42-1FR1O-004
Holocene paleoenvironmental recording in large shallow lakes: the Shkodra (Albania/Montenegro) case

9:30-9:45; EGU2008-A-10970; CL42-1FR1O-005
A multiproxy reconstruction of the Late Holocene in Lake Laja (Central Chile): Evidence of Little Ice Age-like event in a Southern Hemisphere record

9:45-10:00; EGU2008-A-10465; CL42-1FR1O-006
Kilian, R.; Arz, H.; Lamy, F.; Baeza, O.; Kaiser, J.; Bister, H.
Holocene storm track record from the southern Hemisphere Westerly Zone

10:00 END OF SESSION

CL42 Assessment of climate events in lake sediments: deciphering climate, tectonic or anthropic influence – Posters

Convener: Fagel, N.
Co-Convener(s): Loutre, M., Hubert-Ferrari, A.
Display Time: Friday, 08:00-19:30

Authors in Attendance: Friday, 15:30–17:00 Poster Area Halls X/Y
Chairperson: N.N.

XY0217; EGU2008-A-00754; CL42-1FR4P-0217
Li, N.; Dearing, J.
The environmental change and human impact during late Holocene: a study from Chaukou Lake, East China

XY0218; EGU2008-A-08299; CL42-1FR4P-0218
Young, A. A.; Holmes, J. A.; Leng, M. J.; Zhang, J.
Assessing recent climate change across north-west China using lake sediments from the Badain Jaran Desert

XY0219; EGU2008-A-11811; CL42-1FR4P-0219
Ciobanas, N.; Francus, P.
Deterministic hydrological model to reconstruct the last 400 years of runoff and climate variations using the properties of the varved lake sediments in the Canadian Arctic

XY0220; EGU2008-A-09940; CL42-1FR4P-0220
Sedimentological implications from micro-facies data and geochemical characterization of annual laminated sediment deposits from the Holocene Dead Sea

XY0221; EGU2008-A-11196; CL42-1FR4P-0221
The last 2000 yr in Patagonia, an assessment of climatic and environmental change in Southern Chile: introducing the research project Fondecyt 1070508

XY0222; EGU2008-A-11540; CL42-1FR4P-0222
Reconstruction of Late Glacial and Holocene climate fluctuations in Central Nepal based on lacustrine sediments

XY0223; EGU2008-A-02660; CL42-1FR4P-0223
Dietrich, S.; Sirocko, F.; Seelos, K.; Lenaz, D.
Annual resolution pXRF geochemistry of EL SA maar lake sediments (Eifel, Germany): Implications for paleoclimatic variability of the last 60 kyr

XY0224; EGU2008-A-03453; CL42-1FR4P-0224
Vogel, H.; Wagner, B.; Nowaczyn, N.; Zanchetta, G.; Sulpizio, R.; Wennrich, V.
High-resolution geochemical investigations on a long record from ancient Lake Ohrd Macedon/Athabascan

XY0225; EGU2008-A-03304; CL42-1FR4P-0225
Vogel, H.; Rosén, P.; Wagner, B.; Melles, M.; Juschus, O.; Persson, P.
Fourier transform infrared spectroscopy on long sediment cores from Lakes Elgygytgyn, NE Siberia, and Ohrd, Albania/Macedonia: A fast and cost efficient tool for the quantitative analysis of biogeochemical properties

XY0226; EGU2008-A-11328; CL42-1FR4P-0226
Meyer, M.C.; Faber, R.; Spötl, C.
New software for rapid, semi-automated analysis of laminated climate archives - The WinGeol Lamination Tool

XY0227; EGU2008-A-07143; CL42-1FR4P-0227
Kalogi, I. A.; Daryin, A. V.; Smolyaninova, L. G.; Vologina, E. G.; Pitsyn, A. B.
High resolution paleoclimatic reconstructions by geochemical indices from recent lake sediments: assessment of source material and methods

XY0228; EGU2008-A-06274; CL42-1FR4P-0228
Zhdanova, A.N.; Solotchina, E.P.
Carbonate minerals in Late Pleistocene sediments of Lake Hovsgol, Mongolia: implications for the paleoclimatic changes

XY0229; EGU2008-A-10120; CL42-1FR4P-0229
Dörksen, O.; Diekmann, B.
Late Quaternary geomorphological evolution of Dwuhyutnoe lake, Kamchatka.

XY0230; EGU2008-A-03829; CL42-1FR4P-0230
a first order sedimentary history of Lake Tana, northern Ethiopia, from high resolution seismic data

XY0231; EGU2008-A-05406; CL42-1FR4P-0231
Avsar, U.; Boes, X.; Hubert-Ferrari, A.; Fagel, N.; King, J.
Traces of the last earthquake sequence (1939–1944) along NAF from lacustrine sediments

XY0232; EGU2008-A-11204; CL42-1FR4P-0232
Boes, X.; Moran, B.; Roger, K.; Ulas, A.; Moernaut, J.; King, J.; Catagatay, N.; Hubert Ferrarri, A.
Radionuclide profiles and recent earthquakes history of Lake Hazar Pull-apart basin (East Anatolian Fault, Turkey)

IS6 - CL43/AS4.01/CR25/NH1.5/OS23 Rapid climate change (co-organized by CL, AS, CR, NH & OS; co-listed in GM)

Convener: Renssen, H.
Co-Convener(s): Bamber, J.
Lecture Room 26
Chairperson: N.N.

10:30–10:45; EGU2008-A-05875; IS6 - CL43/AS4.01/CR25/NH1.5/OS23-1FR2O-001
Clark, P.U.
Ice sheets and rapid climate change (solicited)

10:45–11:00; EGU2008-A-05756; IS6 - CL43/AS4.01/CR25/NH1.5/OS23-1FR2O-002
Rasmussen, S.O.; NGRIP
Dynamics of abrupt climate change as inferred from the NGRIP ice core record
11:00–11:15; EGU2008-A-03805; IS6 - CL43/AS4.01/CR25/NH1.5/OS23-1FR2O-003
Roche, D.M.; Renssen, H.
Trigging abrupt climate change by freshwater perturbations of the LGM surface ocean: a systematic study of the sensitivity to different release locations

11:15–11:30; EGU2008-A-08923; IS6 - CL43/AS4.01/CR25/NH1.5/OS23-1FR2O-004
Peeters, F.J.C
Is the Indian Ocean a heat source for Late Pleistocene deglaciations? (solicited)

11:30–11:45; EGU2008-A-08253; IS6 - CL43/AS4.01/CR25/NH1.5/OS23-1FR2O-005
Kuhlbrodt, T.; Bondeau, A.; Link, M.; Hinkel, J.
The risk of a major weakening of the Thermohaline Circulation - an economic view

11:45–12:00; EGU2008-A-06218; IS6 - CL43/AS4.01/CR25/NH1.5/OS23-1FR2O-006
Srokosz, M
Rapid climate change (RAPID) - latest results and future plans (solicited)

12:00 - END OF SESSION

IS6 - CL43/AS4.01/CR25/NH1.5/OS23 Rapid climate change (co-organized by CL, AS, CR, NH & OS; co-listed in GM) – Posters
Convener: Renssen, H.
Co-Convene(r(s): Bamber, J.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0233; EGU2008-A-04344; IS6 - CL43/AS4.01/CR25/NH1.5/OS23-1FR4P-0233
Hernandez-Guerra, A.; Joyce, T.M.; Fraile-Nuez, E.; Velez-Belchi, P.
Using Argo data to investigate the Meridional Overturning Circulation in the North Atlantic

XY0234; EGU2008-A-10207; IS6 - CL43/AS4.01/CR25/NH1.5/OS23-1FR4P-0234
Velez-Belchi, P; Hernandez-Guerra, A; Fraile-Nuez, E.
Changes in the temperature tendencies in the upper levels of the subtropical North Atlantic ocean

XY0235; EGU2008-A-12263; IS6 - CL43/AS4.01/CR25/NH1.5/OS23-1FR4P-0235
Bamber, J.L.
Rapid response of Antarctica and Greenland to external forcing and potential freshwater fluxes

XY0236; EGU2008-A-12330; IS6 - CL43/AS4.01/CR25/NH1.5/OS23-1FR4P-0236
Levine, R.C.; Bigg, G.R.
Modelling freshwater and ice streaming events from the West European Ice