
EGU 2008 Meeting Programme

Cryospheric Sciences

Monday

CR2 State of the Cryosphere

Convener: Bamber, J.
Co-Convener(s): Rignot, E., Kääb, A.
Lecture Room 30
Chairperson: BAMBER, J

8:30–8:45; EGU2008-A-02913; CR2-1MO1O-001
Stroeve, J; Drobot, S; Holland, M; Maslanik, J; Meier, W;
Serreze, M
Vanishing Arctic Sea Ice (solicited)

8:45–9:00; EGU2008-A-06425; CR2-1MO1O-002
Maslowksi, W.; Clement Kinney, J.; Jakacki, J.; Zwally, J.
State of the Arctic Sea Ice

9:00–9:15; EGU2008-A-11520; CR2-1MO1O-003
Vavrus, S.; Hibler, W. D.
Pre-Industrial and current coupled Atmosphere sea-ice
Simulations with ice dynamics

9:15–9:30; EGU2008-A-02826; CR2-1MO1O-004
Kaser, G.
State of glaciers in the mid and low latitudes (solicited)

9:30–9:45; EGU2008-A-11595; CR2-1MO1O-005
Cogley, J.G.
Measured rates of glacier shrinkage

9:45–10:00; EGU2008-A-04886; CR2-1MO1O-006
Das, I; Lingle, C; Larsen, C; Echelmeyer, K; Zirnheld, S
Accelerated wastage of the Wrangell Mountain Icefields,
Alaska, U.S.A., during 2000–07 relative to 1957–2000, from
Airborne Laser Altimetry

10:00 COFFEE BREAK

Chairperson: KAAB, A

10:30–10:45; EGU2008-A-05465; CR2-1MO2O-001
Tedesco, M.; Serreze, M.; Fettweis, X.
The causes of Greenland's Record Surface Melt in 2007

10:45–11:00; EGU2008-A-01932; CR2-1MO2O-002
Krabill, W.; **Thomas, R.;** Sonntag, J.; Fredrick, E.
Recent ice sheet and glacier elevation changes in Greenland
from aircraft laser altimetry.

11:00–11:15; EGU2008-A-04820; CR2-1MO2O-003
Thomas, R.
Recent and future contributions from the ice sheets to
sea-level rise (solicited)

11:15–11:30; EGU2008-A-10813; CR2-1MO2O-004
Pritchard, H. D.; Arthern, R. J.; Vaughan, D. G.
Dynamic thinning of outlet glaciers of the Antarctic and
Greenland ice sheets

11:30–11:45; EGU2008-A-03955; CR2-1MO2O-005
Horwath, M.; Dietrich, R.
GRACE inferences on the large ice sheets' mass changes:
results and uncertainties

11:45–12:00; EGU2008-A-04338; CR2-1MO2O-006
Luthcke, S.B.; Rowlands, D.D.; McCarthy, J.J.;
Zwally, H.J.; Arendt, A.; Hall, D.; Boy, J.P.; Lemoine, F.G.
Recent land ice mass changes determined from GRACE
mascon solutions

12:00 END OF SESSION

CR3 Open session on cryospheric sciences (including Louis Agassiz Medal Lecture)

Convener: Gudmundsson, G.
Co-Convener(s): Bindenschadler, R.
Lecture Room 29
Chairperson: G HILMAR GUDMUNDSSON

17:30–17:45; EGU2008-A-04238; CR3-1MO5O-001
Holland, P. R.
Ocean processes near ice-shelf grounding lines

17:45–18:00; EGU2008-A-00893; CR3-1MO5O-002
Horgan, H.J.; Anandakrishnan, S.; Alley, R.B.
Concentrated deformation revealed by englacial seismic
reflectivity - Jakobshavn Isbr{\ae}, Greenland

18:00–18:15; EGU2008-A-10516; CR3-1MO5O-003
Booth, A.; **Kulesa, B.**
Is it possible to monitor Subglacial Hydraulic Processes with
Ground-Penetrating Radar (GPR)?

18:15–18:30; EGU2008-A-05245; CR3-1MO5O-004
Khan, S. A.; Wahr, J.; Dam, T.; Larson, K. M.; Francis, O.;
Stearns, L. A.; Hamilton, G. S.
Rapid uplift in Greenland due to ongoing ice mass changes

18:30–18:45; EGU2008-A-04246; CR3-1MO5O-005
Fischer, A.; Markl, G.; Schneider, H.
Comparison of geodetic and direct glaciological method for
three long term mass balance series in the Austrian Alps

18:45–19:00; EGU2008-A-04830; CR3-1MO5O-006
Rignot, E.; Bamber, J.; van den Broeke, M.; Davis, C.;
Li, Y.; van den Berg, W.; van Meijgaard, E.
Recent antarctic mass loss from InSAR and regional climate
modeling

19:00 END OF ORAL SESSIONS

Chairperson: ROBERT A BINDSCHADLER

19:00–19:15; EGU2008-A-05056; CR3-1MO6O-001
Bamber, J.L.; Riva, R.E.M
Regional sea level rise from a collapse of the West Antarctic
Ice Sheet

19:15–19:30; EGU2008-A-12106; CR3-1MO6O-002
de Jong, C.
Our modern cryosphere

19:30–20:00; EGU2008-A-01406; CR3-1MO6O-003
Oerlemans, J.
Glaciers and climate change (Louis Agassiz Medal lecture)
(solicited)

CR8 Remote sensing of cryosphere (co-listed in HS & OS)

Convener: Tedesco, M.
Lecture Room 29
Chairperson: TEDESCO, M.

13:30–13:45; EGU2008-A-10755; CR8-1MO3O-001
Scambos, T.; Haran, T.; Frezzotti, M.; Jezek, K.; Long, D.; Farness, K.

'Wind glaze' extent on the East Antarctic Plateau: implications for the ice mass balance of East Antarctica

13:45–14:00; EGU2008-A-01538; CR8-1MO3O-002
Drews, R.; Rack, W.; Wesche, C.; Steinhage, D.
Surface topography and massflux of the Antarctic ice sheet in western Dronning Maud Land, derived by differential SAR interferometry

14:00–14:15; EGU2008-A-11513; CR8-1MO3O-003
Nolin, A. ; Scambos, T.; Payne, M.; Bohlander, J.
Greenland and Antarctic Ice Sheet Roughness from MISR Correlates With Climate, Accumulation, and Ice Dynamics

14:15–14:30; EGU2008-A-02493; CR8-1MO3O-004
Slobbe, D.C.; Ditmar, P.G.; Lindenbergh, R.C.
Monitoring ice and snow volume variations in Greenland with ICESat and GRACE data

14:30–14:45; EGU2008-A-08932; CR8-1MO3O-005
Lyapustin, A.; Wang, Y.; Tedesco, M.; Kokhanovsky, A.
Mapping Snow Grain Size over Greenland from MODIS

14:45–15:00; EGU2008-A-00504; CR8-1MO3O-006
p. Lopez, p.L.; p. Sirguey, p.S.; y. Arnaud, y.A.; b. Pouyaud, b.P.; p. Chevallier, p.C
Snow cover monitoring in the Northern Patagonia Icefield using MODIS satellite images (2000–2006)

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2008-A-05783; CR8-1MO4O-001
Kang, K.-K.; **Duguay, C.R.;** Howell, S.; Derksen, C.; Kelly, R.
Potential of AMSR-E for estimating lake ice thickness on Great Bear and Great Slave lakes, Canada

15:45–16:00; EGU2008-A-10477; CR8-1MO4O-002
Foster, J.; Hall, D.; Eylander, J.; Riggs, G.; Kim, E.; Nghiem, S.; Tedesco, M.; Kelly, R.; Casey, K.; Choudhury, B.
Global blended snow products from EOS data

16:00–16:15; EGU2008-A-03330; CR8-1MO4O-003
Putt, D.; Haines, K.; Gurney, R.; Liu, C
Large scale evaluation of SWE estimates (solicited)

16:15–16:30; EGU2008-A-02727; CR8-1MO4O-004
Langlois, A.; Brucker, L.; Royer, A.; Fily, M.; Picard, G.; Arnaud, L.; Derksen, C.; Goïta, K.; Walker, A.; Cliche, P.
Latitudinal variations of snow properties using airborne passive microwave and in-situ infrared reflectance data over Eastern Canada

16:30–16:45; EGU2008-A-05950; CR8-1MO4O-005
Lieser, J.; Worby, A.; Yi, D.
Remote sensing of Antarctic sea ice thickness applying airborne laser scanner

16:45–17:00; EGU2008-A-05259; CR8-1MO4O-006
Shalina, E.; Sandven, S.
Improved retrieval of multiyear ice concentration from satellite passive and active microwave observations

17:00 END OF SESSION

CR8 Remote sensing of cryosphere (co-listed in HS & OS) – Posters

Convener: Tedesco, M.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
Poster Area Hall A
Chairperson: TEDESCO, M.

A0001; EGU2008-A-00115; CR8-1MO5P-0001
Muster, S.; Boike, J.
Monitoring permafrost patterned ground with small-format aerial photography – classification and upscaling of a polygon landscape on Samoilov Island, Lena Delta, Siberia

A0002; EGU2008-A-01857; CR8-1MO5P-0002
Willmes, S.; Haas, C.; Bareiss, J.
MeDantS data set - Longterm snowmelt dynamics on Antarctic sea ice

A0003; EGU2008-A-02052; CR8-1MO5P-0003
Kaufmann, V.; **Kellerer-Pirklbauer, A.;** Kenyi, L.-W.
Alpine Glacier Monitoring by Satellite SAR-Interferometry: The Example from Pasterze Glacier, Austria

A0004; EGU2008-A-02333; CR8-1MO5P-0004
Dedieu, JP.; Zappa, M.; Tobias, J.; Dullinger, S.; Randin, C.
Snow cover retrieval under Climate Change conditions (present and future) using the PREVAH hydrological model. Application to Austrian Alps and validation by Remote Sensing.

A0005; EGU2008-A-02739; CR8-1MO5P-0005
Langlois, A.; Barber, D.G.
Development of a Snow Water Equivalent (SWE) Algorithm over First-Year Sea Ice using In-Situ Passive Microwave Radiometry

A0006; EGU2008-A-03121; CR8-1MO5P-0006
Bartsch, A.; Wagner, W.; Kidd, R. A.
Seasonal snowmelt patterns for Russia from QuikScat diurnal difference analyses

A0007; EGU2008-A-03972; CR8-1MO5P-0007
Linow, S.; Rack, W.; Dierking, W.
Comparing Models for Snow Accumulation retrieved from Microwave Remote Sensing

A0008; EGU2008-A-04382; CR8-1MO5P-0008
Casey, K.A.; Kim, E.J.; Hallikainen, M.T.; Foster, J.L.; Hall, D.K.; Riggs, G.A.
Validation of the AFWA-NASA blended snow-cover product in northern Finland, 2006–2008

A0009; EGU2008-A-04445; CR8-1MO5P-0009
Khalsa, S.J.; Racoviteanu, A.
ASTER-Derived DEMs for Glacier Studies: Comparison of Available Software Packages

A0010; EGU2008-A-04744; CR8-1MO5P-0010
Tedesco, M.; Loew, A.; Markus, T.; Reichle, R.
Toward a radiance based assimilation framework for the retrieval of SWE and snow depth from AMSR-E and SSM/I data

A0011; EGU2008-A-05154; CR8-1MO5P-0011
van Oevelen, P.; Prowse, T.
High Altitude and Latitude Hydrology: A Proposed New Initiative by GEWEX and CliC

A0012; EGU2008-A-05370; CR8-1MO5P-0012
Tedesco, M.;
Melting in Antarctica from space-borne microwave data: 2008 updated trends

A0013; EGU2008-A-05395; CR8-1MO5P-0013
Howell, S.; Kang, K.-K.; Brown, L.; **Duguay, C.R.**
Assessment of Seawinds/QuikSCAT scatterometer observations for monitoring ice cover on large lakes in northern Canada

A0014; EGU2008-A-05867; CR8-1MO5P-0014
Maksym, T; Markus, T
Antarctic Sea Ice Thickness from Passive Microwave Retrievals of Snow Depth

A0015; EGU2008-A-06183; CR8-1MO5P-0015
Picard, G; Brucker, L; Fily, M; Gallee, H; Krinner, G
Interpreting timeseries of microwave brightness temperature in Antarctica using dynamic modeling.

A0016; EGU2008-A-06670; CR8-1MO5P-0016
Flueraru, C.
A comparison of MODIS snow maps with high resolution SPOT imagery

A0017; EGU2008-A-07383; CR8-1MO5P-0017
Belmonte Rivas, M; Stoffelen, A
A year-round sea ice detection algorithm for QUIKSCAT

A0018; EGU2008-A-07546; CR8-1MO5P-0018
Belmonte Rivas, M; Axelrad, P; Maslanik, J
Bistatic scattering of GPS signals off Arctic sea ice

A0019; EGU2008-A-07565; CR8-1MO5P-0019
Khvorostovsky, K.S; Johannessen, O.M; Chen, L.; Miles, M.W
Elevation change of the Greenland Ice Sheet from the merged ERS-1, ERS-2 and Envisat satellite radar altimetry

A0020; EGU2008-A-08118; CR8-1MO5P-0020
Gudmundsson, S.; Pálsson, F.; Björnsson, H.; Berthier, E.; Gudmundsson, M.T.; Högnadóttir, Th.
Mass balance- and volume changes of two ice caps in Iceland, deduced from SPOT5 derived DEM and field elevation data

A0021; EGU2008-A-08603; CR8-1MO5P-0021
O'Leary, MEW; Arnold, N; Rees, G
A high-resolution airborne survey of the albedo of Midre Lovenbreen, Svalbard

A0022; EGU2008-A-09286; CR8-1MO5P-0022
Fernandes, R; Zhao, H
Circumpolar trends in albedo and snow cover derived from daily satellite measurements

A0023; EGU2008-A-10272; CR8-1MO5P-0023
Magnússon, E.; Björnsson, H.; Rott, H.; Gudmundsson, S.; Pálsson, F.; Nagler, T.
New DEMs of glaciers deduced from InSAR satellite data

CR14 Mountain Hydrology, Glaciology and Climatology: present state and future scenarios (co-listed in HS)

Convener: Viviroli, D.
Co-Convener(s): de Jong, C., Molnia, B.
Lecture Room 32
Chairperson: VIVIROLI, D.

8:30–8:45; EGU2008-A-01722; CR14-1MO1O-001
Ananicheva, M.
Glacier Systems in Northeastern Asia: projection of the mass balance and size change by the GSM scenarios (solicited)

8:45–9:00; EGU2008-A-00331; CR14-1MO1O-002
Buytaert, W; Beven, K; De Bièvre, B
Global change in tropical mountain environments

9:00–9:15; EGU2008-A-01871; CR14-1MO1O-003
Bianchi Janetti, E.; Bocchiola, D.; Rosso, R.
Hydrological response of debris covered glacier to climate change scenarios

9:15–9:30; EGU2008-A-10007; CR14-1MO1O-004
Kroisleitner, C.; Schöner, W.; Koboltschnig, G.
The influence of glaciers on stream water temperature

9:30–9:45; EGU2008-A-05482; CR14-1MO1O-005
Hodgkins, R; Cooper, R
Determining a comprehensive water balance for a proglacial area in Svalbard

9:45–10:00; EGU2008-A-01683; CR14-1MO1O-006
Gremaud, V; Goldscheider, N; Deyres, S
Impact of a retreating glacier on a karst aquifer system, Tsanfleuron - Swiss Alps

10:00 COFFEE BREAK

Chairperson: DE JONG, C.; MOLINA, B.

10:30–10:45; EGU2008-A-02941; CR14-1MO2O-001
Lundquist, J; **Mote, P**
Microclimate studies with microsensors

10:45–11:00; EGU2008-A-04563; CR14-1MO2O-002
Huesler, E.; Wunderle, S.; Foppa, N.
Analysis of short-term trends in snow cover variability in the European Alps - based on subpixel snow cover mapping with NOAA AVHRR data

11:00–11:15; EGU2008-A-05272; CR14-1MO2O-003
Viviroli, D; Dürr, H; Messerli, B; Meybeck, M; Weingartner, R
Global significance of mountain regions for lowland water resources: a spatially distributed analysis

11:15–11:30; EGU2008-A-10939; CR14-1MO2O-004
Molnia, B. F.; Geissler, P. E.; Lee, E. M.
Inventorying and monitoring the recent behavior of Afghanistan's glaciers – a component of the USGS Afghanistan Water Resources Assessment

11:30–11:45; EGU2008-A-04020; CR14-1MO2O-005
Wagnon, P. ; Linda, A.; Arnaud, Y.; Kumar, R.; Sharma, P.; Vincent, C.; Pottakkal, J. G.; Berthier, E.; Ramanathan, A.; Chevallier, P.
Four years of mass balance on Chhota Shigri glacier (Himachal Pradesh, India), a new benchmark glacier in the Western Himalaya

11:45–12:00; EGU2008-A-02325; CR14-1MO2O-006
Xiaodong, Liu; Zhigang, Cheng; Libin, Yan
Elevation dependency of recent and future climatic warming over the Tibetan Plateau and its surroundings

12:00 END OF SESSION

Tuesday

CR1 The International Polar Year 2007 - 2008 (co-listed in AS, BG, CL, HS & OS)

Convener: Tedesco, M.
Co-Convener(s): de Jong, C., Ellis-Evans, C.
Lecture Room 13
Chairperson: TEDESCO, M. - DE JONG, C. - ELLIS-EVANS, C.

17:30–17:45; EGU2008-A-05497; CR1-1TU5O-001
De Bruin, T.F. ; Parsons, M.A.
Data Sharing, Access, and Archiving in IPY

17:45–18:00; EGU2008-A-01374; CR1-1TU5O-002

Fleming, A

The contribution of satellite Earth observations to the International Polar Year

18:00–18:15; EGU2008-A-12448; CR1-1TU5O-003

Christiansen, H.H.; Blikra, L.H.; Etzelmueller, B.; Humlum, O.; Isaksen, K.; Juliussen, H.; Midttømme, K.
IPY Permafrost Observatories in Norway and Svalbard

18:15–18:30; EGU2008-A-00739; CR1-1TU5O-004

Bindschadler, R.; Fleming, A.; Vornberger, P.; Fox, A.; Binnie, D.; Mullins, J

LIMA-The Landsat Image Mosaic of Antarctica

18:30–18:45; EGU2008-A-09476; CR1-1TU5O-005

Lammert, A.; Brümmer, B.; Kriegsmann, A.

Observation of cyclone induced increase of semi-diurnal tidal/inertial oscillation of sea ice in the Fram Strait and the interior Arctic

18:45–19:00; EGU2008-A-10816; CR1-1TU5O-006

Zender, C.; Gallet, J.-C.; Domine, F.

Albedo reduction by soot-contaminated snow: measurements and implications

19:00–19:15; EGU2008-A-10835; CR1-1TU5O-007

Mäkinen, J.; Bilker-Koivula, M.; Koivula, H.; Ahola, J.; Poutanen, M.

Observations of gravity change and crustal motion in Dronning Maud Land: implications for postglacial rebound and present-day mass balance

19:15–19:30; EGU2008-A-11466; CR1-1TU5O-008

Hutchings, J.; Roberts, A.; Hibler, W. D.

Observed and Simulated Arctic Ice Drift from IPY

19:30 END OF SESSION

CR1 The International Polar Year 2007 - 2008 (co-listed in AS, BG, CL, HS & OS) – Posters

Convener: Tedesco, M.

Co-Convener(s): de Jong, C., Ellis-Evans, C.

Display Time: Tuesday, 08:00–19:30

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

Poster Area Hall A

Chairperson: TEDESCO, M. - DE JONG, C. - ELLIS-EVANS, C.

A0001; EGU2008-A-00125; CR1-1TU5P-0001

Shakhova, N.; Semiletov, I.; Kosmach, D.

Why the East-Siberian Arctic shelf should be considered as a new focal point for methane studies

A0002; EGU2008-A-00126; CR1-1TU5P-0002

Semiletov, I.; Pipko, I.; Repina, I.; Pugach, S.; Kosmach, D.; Shakhova, N.

Carbon dioxide fluxes and carbonate chemistry dynamics in the Arctic Siberian seas

A0003; EGU2008-A-00912; CR1-1TU5P-0003

Schröder, D.; Hebbinghaus, H.; Heinemann, G.; Timmermann, R.

A high resolution fully coupled atmosphere ocean sea ice model to investigate polynya processes in the Laptev Sea

A0004; EGU2008-A-01053; CR1-1TU5P-0004

Mikhalenko, V.N.; **Kutuzov, S.;** Lavrentiev, I.I.; Kunakhovich, M.G.

Paleoclimatic ice core studies in the Caucasus Mountains as a base for a new paleoclimatic reconstruction for the low latitudes of the Northern Hemisphere: prospects and first results.

A0005; EGU2008-A-01440; CR1-1TU5P-0005

Bentley, C.; Taylor, K.; Johnson, J.; Shturmakov, A. ; Lebar, D.

IPY deep ice core drilling in central West Antarctica, 2007-08

A0006; EGU2008-A-01925; CR1-1TU5P-0006

Morin, R.; Williams, T.; Henrys, S.; Magens, D.; Niessen, F.; Hansaraj, D.

Heat flow from the AND-1B borehole, ANDRILL McMurdo Ice Shelf Project, Antarctica

A0007; EGU2008-A-02164; CR1-1TU5P-0007

Nieto, R.; Gimeno, L.; **Trigo, R.**

Where does atmospheric moisture come from for Antarctic ice cores?

A0008; EGU2008-A-04245; CR1-1TU5P-0008

Morozov, E. ; Zatsepin, A.; Demidov, A.; Kremenetsky, V.
Currents in the Kara Sea based on measurements in 2007

A0009; EGU2008-A-05293; CR1-1TU5P-0009

Baeseman, J.; **Baker, N.;** Pringle, D.; Lantuit, H.; Xavier, J.
The Association of Early Career Polar Scientists (APECS): shaping the future of polar research

A0010; EGU2008-A-07520; CR1-1TU5P-0010

Prick, A.

The Climate and Cryosphere Project (CliC) and sustained observing networks beyond IPY

A0011; EGU2008-A-10193; CR1-1TU5P-0011

Lembke-Jene, L.; Biebow, N.; Kunz-Pirrung, M.; Thiede, J.; Egerton, P.

AURORA BOREALIS – a New Research Icebreaker and Drilling Vessel

A0012; EGU2008-A-10266; CR1-1TU5P-0012

Binder, D.; Jekel, T.; Mitterbauer, U.; Hausmann, H.; Wallentin, G.; Behm, M.; Brückl, E.

Schools on Ice - Bringing the IPY to the classroom

A0013; EGU2008-A-11447; CR1-1TU5P-0013

Persson, O.; Shupe, M.; Tjernstrom, M.; Brooks, I.; Gasiewski, A.; Uttal, T.; Fairall, C.

Plans for remote sensing of Arctic cloud and boundary-layer structure during ASCOS

A0014; EGU2008-A-11468; CR1-1TU5P-0014

Vieira, G.; Ramos, M.; Gruber, S.; Pimpirev, C.

Long-term network for permafrost monitoring in the South Shetlands (Maritime Antarctic). An international programme developed in the framework of the International Polar Year 2007-2008

CR2 State of the Cryosphere – Posters

Convener: Bamber, J.

Co-Convener(s): Rignot, E., Käab, A.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 10:30–12:00

Poster Area Hall A

Chairperson: BAMBER, J

A0015; EGU2008-A-03042; CR2-1TU2P-0015

Zemp, M.; Haeberli, W.; GEO4ICE-Team

Global overview on distribution and changes of glaciers and ice caps

A0016; EGU2008-A-10444; CR2-1TU2P-0016

Paul, F.; Kaab, A.; Rott, H.; Shepherd, A.; Strozzi, T.

GlobGlacier: A new ESA project to map the worlds glaciers from space

A0017; EGU2008-A-10344; CR2-1TU2P-0017
Miller, M. M.; Molnia, B. F.
The implication of accelerated greenhouse effects on Alaskan glaciers, Juneau Icefield - 1946-2007

A0018; EGU2008-A-10158; CR2-1TU2P-0018
Shahgedanova, M.; Stokes, C. R.; Khromova, T.; Nosenko, G.; Popovnin, V.; Aleynikov, A.; Narozhny, Y.; Muraveyev, A.
State of glaciers in the Caucasus and southern Siberian mountains and their links with climate oscillations since the 1950s

A0019; EGU2008-A-10667; CR2-1TU2P-0019
Molnia, B. F.
State of the Alaskan cryosphere – glaciers

A0020; EGU2008-A-04151; CR2-1TU2P-0020
Kerschner, H.; Knoll, Ch.; Dinale, R.
Modelling future glacier change south of the Alpine Main Ridge - an inventory based approach

A0021; EGU2008-A-04524; CR2-1TU2P-0021
Narama, C.; Käab, A.; Moholdt, G.; Abdrakhmatov, K.
Recent change of glacier volume in the Chon-Kyzylsuu river basin, Teskey Ala-Too range, Tien Shan mountains, using airphotos, topographic maps, and ALOS PRISM satellite stereo data

A0022; EGU2008-A-00776; CR2-1TU2P-0022
Braun, M.; Humbert, A.; Moll, A.
Structure and dynamics of Wilkins Ice Shelf (Antarctic Peninsula) by means of multi-sensor remote sensing

A0023; EGU2008-A-02799; CR2-1TU2P-0023
Wallis, D. ; Wingham, D.
Accelerated Thinning of Pine Island Glacier Between 1995 and 2006

A0024; EGU2008-A-02490; CR2-1TU2P-0024
Slobbe, D. C.; Lindenbergh, R.C.; Ditmar, P.G.
ICESat based elevation change estimates of Greenland's ice sheet

A0025; EGU2008-A-05336; CR2-1TU2P-0025
Käab, A.; Karstensen, J.
Glacier volume changes 1970-2006 on Edgeøya, Eastern Svalbard, using ASTER satellite stereo and ICESat GLAS data

A0026; EGU2008-A-03388; CR2-1TU2P-0026
Fettweis, X.; Gallée, H.; Tedesco, M.; Hanna, E.; Erpicum, M.
A record negative Greenland ice sheet surface mass balance rate in 2007

A0027; EGU2008-A-10536; CR2-1TU2P-0027
Urban, T.; Catania, G; Harpold, R; Schutz, B; Webb, C
Basin-scale elevation changes across Antarctica from five years of ICESat (2003-2007)

CR3 Open session on cryospheric sciences (including Louis Agassiz Medal Lecture) – Posters

Convener: Gudmundsson, G.
Co-Convener(s): Bindshadler, R.
Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 10:30–12:00
Poster Area Hall A
Chairperson: G HILMAR GUDMUNDSSON

A0028; EGU2008-A-00418; CR3-1TU2P-0028
Dietze, E.; Kleber, A.; Ginot, P.; Stichler, W.; Schotterer, U.; Schwikowski, M.
Response of regional climate and glacier ice proxies to El Niño-Southern Oscillation (ENSO) in the subtropical Andes

A0029; EGU2008-A-01203; CR3-1TU2P-0029
Babiker, M.; Miles, M; Johannessen, O; Sandven, S
Solid-ice flux indicators from Petermann glacier, north Greenland: interannual to decadal variability

A0030; EGU2008-A-01943; CR3-1TU2P-0030
Carrieres, T.; Allison, K; Crocker, G
An Ensemble Iceberg Prediction Model

A0031; EGU2008-A-04980; CR3-1TU2P-0031
Hoelzle, M.; Lüthi, M.P.; Böhlert, R.; Funk, M.; Schwerzmann, A.; Suter, S.; Zemp, M.
Results from englacial temperature records at Colle Gnifetti since 1983

A0032; EGU2008-A-05416; CR3-1TU2P-0032
Eisen, O.; Bauder, A.; Lüthi, M.; Funk, M.
Distribution of cold ice in the tongue of Gornergletscher from radar surveys

A0033; EGU2008-A-06429; CR3-1TU2P-0033
Marty, Ch.
Regime change of snow days in Switzerland

A0034; EGU2008-A-07282; CR3-1TU2P-0034
Frey, H.; Schenkel, R.; Ingensand, H.; Haeberli, W.
Recent geometric evolution of a cold crest-type miniature ice cap at Murtèl/Corvatsch, Upper Engadin, Swiss Alps

A0035; EGU2008-A-09730; CR3-1TU2P-0035
Heggli, M.; Frei, E.; Schneebeli, M.
Replica method for three-dimensional snow imaging

A0036; EGU2008-A-10004; CR3-1TU2P-0036
Failetta, J.; Sornette, D.; Funk, M.
Interplay between frictional sliding and cracking in a spring-block model of large ice masses instabilities

A0037; EGU2008-A-10525; CR3-1TU2P-0037
Fierz, C.; Armstrong, R. L.; Durand, Y.; Etchevers, P.; Greene, E.; McClung, D. M.; Nishimura, K.; Satyawali, P. K.; Sokratov, S.
The 2008 International Classification of Seasonal Snow on the Ground

A0038; EGU2008-A-10824; CR3-1TU2P-0038
Jansen, D.; Müller, C.
Iceberg generated tremor in the vicinity of South Georgia Island

A0039; EGU2008-A-10920; CR3-1TU2P-0039
Ranzi, R.; Gitti, A.; Grossi, G.
A decade of observations and modelling of the Adamello Glacier (Italian Alps)

CR7 Ever smaller than now? Holocene glacier history with climatic background (co-listed in CL)

Convener: Solomina, O.
Co-Convener(s): Grosjean, M.
Lecture Room 30
Chairperson: SOLOMINA, O. & GROSJEAN, M.

10:30–10:45; EGU2008-A-01088; CR7-1TU2O-001
Luckman, B.H.
Shrinking glaciers- some observations from Western Canada

10:45–11:00; EGU2008-A-09213; CR7-1TU2O-002
Kirkbride, MP.; Dugmore, AJ
Holocene glacier fluctuations in Iceland: tephrochronology, glacier response, and climatic forcing

11:00–11:15; EGU2008-A-04653; CR7-1TU2O-003
Nicolussi, K.; Joerin, U.E.; Patzelt, G.; Stocker, T.F.; Thurner, A.; Schluechter, C.
Even smaller than now - evidence for long lasting glacier retreat periods in the Alps during the Holocene

11:15–11:30; EGU2008-A-01905; CR7-1TU2O-004
Nesje, A.; Bakke, J.; Dahl, S.O.
Mountain glacier fluctuations in Norway: evidence for a climatically unstable early Holocene, contracted mid-Holocene glaciers and multiple Neoglacial events

11:30–11:45; EGU2008-A-04103; CR7-1TU2O-005
Bakke, J.; Dahl, S.O.; Riis-Simonsen, J.; Kvisvik, B.; Paasche, Ø.; Bakke, K.; Nesje, A.
Explaining Holocene glacier variability of Austre Okstind-breen with changes in Arctic air masses

11:45–12:00; EGU2008-A-00937; CR7-1TU2O-006
Winkler, S.
Revision of the Holocene glacier chronology in the Southern Alps/New Zealand and comparison with Norway - characterising maritime mountain glaciers and improving the spatial differentiation in a global context

12:00 END OF SESSION

CR7 Ever smaller than now? Holocene glacier history with climatic background (co-listed in CL) – Posters

Convener: Solomina, O.
Co-Convener(s): Grosjean, M.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 17:30–19:00
Poster Area Hall A
Chairperson: SOLOMINA, O.

A0040; EGU2008-A-00225; CR7-1TU5P-0040
Nazarov, A.N.; Agatova, A.R.
Glacier variations in the second half of the Holocene in the Northern-Chyisky Range, Central Altai

A0041; EGU2008-A-00501; CR7-1TU5P-0041
Agatova, A.R.; Nepop, R.K.; Nazarov, A.N.
The Holocene glaciation of SE Altai (Russia): correlation of climate and tectonic factors

A0042; EGU2008-A-01672; CR7-1TU5P-0042
Jomelli, V.; B, P.H.; Brunstein, D; Grancher, D; Perroy, E; Favier, V
Last centuries climate variations inferred from moraine records in Ecuador

A0043; EGU2008-A-01749; CR7-1TU5P-0043
Koch, J.; Clague, J.J.; Osborn, G.
Alpine glaciers in western Canada approach their smallest size of the past 7000 years

A0044; EGU2008-A-03338; CR7-1TU5P-0044
Leclercq, P.; Oerlemans, J
Characteristics of worldwide glacier fluctuations based on the analysis of 197 glacier length records

A0045; EGU2008-A-03362; CR7-1TU5P-0045
Zumbühl, H. J.; Nussbaumer, S. U.; Steiner, D.
An updated LIA glacier length record for the central and western European Alps based on historical data

A0046; EGU2008-A-08877; CR7-1TU5P-0046
Waldmann, N.; Ariztegui, D.; Coronato, A.; Anselmetti, F.; Austin, J.; Moy, C.; Recasens, C.; Dunbar, R.; Ponce, F.
The deglaciation history of Tierra del Fuego: Blending geomorphology and lacustrine geophysics at the end of the world

A0047; EGU2008-A-09743; CR7-1TU5P-0047
Debret, M.; Chapron, E.; Massei, N.; Sebag, D.; Desmet, M.; Arnaud, F.
Oceanic and solar imprints in Alps glacier during the Holocene?

A0048; EGU2008-A-12114; CR7-1TU5P-0048
Solomina, O.
Last millennium climate and glacier variations in the Northern Caucasus

CR10 Mass and energy balance of snow and ice

Convener: Scherer, D.
Co-Convener(s): Brock, B.
Lecture Room 30
Chairperson: BROCK, B.

8:30–8:45; EGU2008-A-03908; CR10-1TU1O-001
Lejeune, Y.; **Wagnon, P.;** Etchevers, P.; Chazarin, J.P.; Martin, E.; Soruco, A.
Distributed snow and ground models over a 67% glacierized basin in Bolivia (Zongo Glacier, tropical Andes) to study melting processes and to simulate water discharge

8:45–9:00; EGU2008-A-01025; CR10-1TU1O-002
Strasser, U.; Bernhardt, M.; Weber, M.; Liston, G.E.; Mauser, W.
On the role of snow sublimation in the alpine water balance

9:00–9:15; EGU2008-A-10513; CR10-1TU1O-003
Paul, F.; Haeberli, W.; Hoelzle, M.; Machguth, H.; Tribaldos, T.
On the influence of changes in glacier extent and surface elevation on modelled glacier mass balance

9:15–9:30; EGU2008-A-03422; CR10-1TU1O-004
Fettweis, X.; Hanna, E.; Gallée, H.; Ericum, M.
Estimation of the 1900-2100 Greenland ice sheet surface mass balance

9:30–9:45; EGU2008-A-01704; CR10-1TU1O-005
van den Broeke, M.; Smeets, P.; Ettema, J.; van de Wal, R.
Surface energy and mass balance in the ablation zone of the west Greenland ice sheet

9:45–10:00; EGU2008-A-05743; CR10-1TU1O-006
Motoyama, H.; Hirasawa, N.
Heat and mass balance at snow surface of inland Dome Fuji Station, East Antarctica

10:00 END OF SESSION

CR10 Mass and energy balance of snow and ice – Posters

Convener: Scherer, D.
Co-Convener(s): Brock, B.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 17:30–19:00
Poster Area Hall A
Chairperson: BROCK, B.

A0049; EGU2008-A-01525; CR10-1TU5P-0049
Rasmussen, A
Using upper-air temperatures to model high-altitude summer balance on 23 glaciers

A0050; EGU2008-A-02551; CR10-1TU5P-0050
van de Berg, W. J.; van den Broeke, M. R.; van Meijgaard, E.
Quantifying the uncertainty in model-based estimates of Antarctic surface mass balance

A0051; EGU2008-A-05155; CR10-1TU5P-0051
Frappart, F.; **Ramillien, G.**; Biancamaria, S.; Mognard, N.; Cazenave, A.
Snow mass variation in the Arctic regions using GRACE gravimetry products

A0052; EGU2008-A-05452; CR10-1TU5P-0052
Hodgkins, R.; Carr, S.
Multi-seasonal, multi-site, surface meteorological and energy-balance variation at Vestari-Hagafellsjökull, Langjökull, Iceland

A0053; EGU2008-A-03366; CR10-1TU5P-0053
Fettweis, X.
Impacts of ice sheet mask and resolution on estimating the surface mass balance of the Greenland ice sheet

A0054; EGU2008-A-06233; CR10-1TU5P-0054
Sokratov, S.A.
Snow cover feedback on environmental system

A0055; EGU2008-A-03747; CR10-1TU5P-0055
Franco, B.; Fettweis, X.; Erpicum, M.
Last century Greenland ice sheet surface mass balance projections from IPCC AR4 global models

A0056; EGU2008-A-08038; CR10-1TU5P-0056
Gladstone, R; **Bamber, J.**; Bougamont, M
Uncertainty assessment in model-based predictions of surface mass balance

A0057; EGU2008-A-09589; CR10-1TU5P-0057
Helbig, N.; Löwe, H.; Lehning, M.
The radiosity method applied to the shortwave surface radiation balance in complex terrain

A0058; EGU2008-A-09821; CR10-1TU5P-0058
Brock, B.; Williamson, C
Rapid ablation of bare ice surfaces on debris-covered Miage glacier, Italian Alps

A0059; EGU2008-A-09824; CR10-1TU5P-0059
Lambrecht, A.; Mayer, C.; Hagg, W.; Popovnin, V.; Naroshniy, Y.; Shahgedanova, M.
Ablation conditions on debris covered glaciers of the Caucasus and Altay mountains during the 2007 ablation season

A0060; EGU2008-A-10736; CR10-1TU5P-0060
Carenzo, M.; Pellicciotti, F.; **Rimkus, S.**; Helbing, J.; Burlando, P.
On the importance of including the heat conduction into the snow and icepack in glacier energy-balance modelling

IS8 - CR13/HS1.6/NH7.3 Glacial Lake Outburst Floods: Current issues - future concerns (co-organized by CR, HS & NH) – Posters

Convener: Reynolds, J.
Co-Convener(s): Funk, M.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 17:30–19:00
Poster Area Hall A
Chairperson: FUNK, M.

A0061; EGU2008-A-01227; IS8 - CR13/HS1.6/NH7.3-1TU5P-0061
Helm, A.; Wetzel, H.-U.; Falck, C.; Michajljow, W.; Bens, O.; Mayer, C.; Lambrecht, A.; Hagg, W.; Dudashvili, A.; Rothacher, M.
The 2005 Lake Merzbacher GLOF event and status of future planned activities in the Tien Shan region

A0062; EGU2008-A-02000; IS8 - CR13/HS1.6/NH7.3-1TU5P-0062
Shen, Y.P.; Wang, G.Y.; Wang, S.D.; Gao, Q.Z.
Climate warming affecting on glacial lake outburst floods from Merzbacher Lake, Inylchek Glacier, Tianshan: a hydrological responding

A0063; EGU2008-A-08759; IS8 - CR13/HS1.6/NH7.3-1TU5P-0063
Lu, A.; Wang, N.; Wang, L.; Duan, K
Glacier lakes changes in the southeast tibetan plateau in the past thirty years

A0064; EGU2008-A-08808; IS8 - CR13/HS1.6/NH7.3-1TU5P-0064
Quincey, D.J.
Mapping and monitoring Himalayan glacial lakes using remote sensing techniques

A0065; EGU2008-A-10331; IS8 - CR13/HS1.6/NH7.3-1TU5P-0065
Motyka, R.; Lawson, D.; Finnegan, D.; Kalli, G.
Hubbard Glacier, Alaska: another closure of Russell Fjord in the making

A0066; EGU2008-A-08754; IS8 - CR13/HS1.6/NH7.3-1TU5P-0066
Funk, M.; Werder, M.; Bauder, A.
Formation of a potentially large glacier dammed lake on the tongue of the Unterer Grindelwaldgletscher, Bernese Alps, Switzerland

A0067; EGU2008-A-03165; IS8 - CR13/HS1.6/NH7.3-1TU5P-0067
Frey, H.; Haeberli, W.; Paul, F.; Linsbauer, A.; Zemp, M.; Huggel, C.
Modelling the formation of future glacial lakes by means of GIS-based methods

CR21 Sea ice, ice-ocean interactions and glaciology of Antarctica (co-listed in OS)

Convener: Morales Maqueda, M.
Co-Convener(s): Feltham, D., Kulesa, B.
Lecture Room 30
Chairperson: MORALES MAQUEDA, M. A.

13:30–14:00; EGU2008-A-01301; CR21-1TU3O-001
Fichefet, T.; Vancoppenolle, M.; Goosse, H.; Bouillon, S.; Madec, G.; Morales Maqueda, M.A.
Simulating the mass balance and salinity of Arctic and Antarctic sea ice with LIM3-OPA9 (solicited)

14:00–14:15; EGU2008-A-00120; CR21-1TU3O-002
Girard, L.; Weiss, J.; Molines, J.M.
How realistic are sea ice models in terms of sea ice dynamics and associated scaling properties?

14:15–14:30; EGU2008-A-05553; CR21-1TU3O-003
Yakovlev, N.
On the implementation of the FEMAO (Finite Element Model of the Arctic Ocean) with tides – the dynamical ice-ocean coupling in a case of thick ice

14:30–14:45; EGU2008-A-09789; CR21-1TU3O-004
Maksym, T
Antarctic sea ice surface processes: a comparison of field results with a thermodynamic-hydraulic model

14:45–15:15; EGU2008-A-00578; CR21-1TU3O-006
Thomas, D
Sea ice biogeochemistry - some key issues for modellers (solicited)

15:15 COFFEE BREAK

Chairperson: KULESSA, B.

15:30–15:45; EGU2008-A-00711; CR21-1TU4O-002

Tedesco, L.; Vichi, M.; Haapala, J.; Stipa, T.
SIM2: a numerical model of sea-ice halo-thermodynamics for biogeochemical studies

15:45–16:00; EGU2008-A-00773; CR21-1TU4O-003

Brabant, F.; Carnat, G.; Ackley, S.F.; Tison, J.-L.
DMS and DMSP dynamics in Antarctic early spring sea ice (Bellingshausen Sea, September–October 2007)

16:00–16:30; EGU2008-A-10903; CR21-1TU4O-004

Shuman, C.; Hulbe, C.; **Scambos, T.**
Crane Glacier in the Larsen B Embayment: Faster, Slower, Higher, Lower after Ice Shelf Loss (solicited)

16:30–16:45; EGU2008-A-07225; CR21-1TU4O-005

Jenkins, A.; Jacobs, S
Circulation and melting beneath George VI Ice Shelf, Antarctica

16:45–17:00; EGU2008-A-08526; CR21-1TU4O-006

Shoosmith, D. R.; Jenkins, A.; Brandon, M. A.
Oceanography of the Bellingshausen Sea and implications for West Antarctic Peninsula ice shelves

17:00 END OF SESSION

CR21 Sea ice, ice-ocean interactions and glaciology of Antarctica (co-listed in OS) – Posters

Convener: Morales Maqueda, M.

Co-Convener(s): Feltham, D., Kulesa, B.

Display Time: Tuesday, 08:00–19:30

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

Poster Area Hall A

Chairperson: FELTHAM, D.

A0068; EGU2008-A-08875; CR21-1TU5P-0068

Tattersall, G R.; Postlethwaite, C F; Morales Maqueda, M A; Holt, J T; Willmott, A J
Arctic shelf seas: Are we getting the full picture?

A0069; EGU2008-A-01882; CR21-1TU5P-0069

Turner, A.; Feltham, D; Laxon, S
Simulation of the Arctic Ocean and its sea ice cover

A0070; EGU2008-A-01326; CR21-1TU5P-0070

Vancoppenolle, M.; Fichet, T.; Goosse, H.
Modelling salinity in a sea-ice thickness distribution model

A0071; EGU2008-A-04933; CR21-1TU5P-0071

Olason, E.; Harms, I; Heitmann, S
Kara Sea Polynyas in High Resolution

A0072; EGU2008-A-00731; CR21-1TU5P-0072

Bouillon, S.; Fichet, T.; Morales Maqueda, M. A.; Legat, V.
The Elastic-Viscous-Plastic Sea Ice Model on Different Grid Types

A0073; EGU2008-A-00741; CR21-1TU5P-0073

Lietaer, O.; Bouillon, S.; Fichet, T.; Legat, V.
Improving the representation of small-scale processes with a finite element sea-ice model

A0074; EGU2008-A-01221; CR21-1TU5P-0074

Feltham, D.; Sammonds, P; Lishman, B
Calculation of a GCM sea ice rheology using ice tank experiments

A0075; EGU2008-A-02850; CR21-1TU5P-0075

Flocco, D.; Feltham, D. L.; Turner, A. K.
Melt pond evolution on Arctic sea ice: preliminary model results

A0076; EGU2008-A-06788; CR21-1TU5P-0076

Scott, F.; Feltham, D
Modelling the areal evolution of Arctic melt ponds

A0077; EGU2008-A-03687; CR21-1TU5P-0077

Stone-Drake, L.; Feltham, DL; Maksym, T; Sammonds, PR
Experimental Investigation of the Flooding of Snow-Laden Sea Ice

A0078; EGU2008-A-08914; CR21-1TU5P-0078

Morales Maqueda, M. A.; Walkington, I. A.; Willmott, A. J.
Investigation of wind-driven, coastal polynya dynamics with a mass and momentum conserving, one-dimensional model

A0079; EGU2008-A-10979; CR21-1TU5P-0079

van Lipzig, N.P.M.; Marshall, G.J.; Orr, A.; King, J.C.
The relationship between the Southern Hemisphere Annular Mode and Antarctic Peninsula summer temperatures: Analysis of a high-resolution model climatology

Wednesday

CR4 Open Session on Permafrost (co-listed in CM, GL & NH)

Convener: Gruber, S.

Co-Convener(s): Hauck, C.

Lecture Room 30

Chairperson: GRUBER, S

16:30–16:45; EGU2008-A-01866; CR4-1WE4O-005

Stendel, M.; Christensen, J.H.; Adalgeirsdottir, G.; Kliem, N.; Drews, M.; Daanen, R.
The Fate of Greenland's Permafrost - Results from High Resolution Transient Climate Simulations

16:45–17:00; EGU2008-A-03838; CR4-1WE4O-006

Frauenfelder, R.; Käb, A.; Hoelzle, M.
GIS-aided permafrost mapping in the Brahmaputra river basin, Southern and Eastern Asia

17:00 COFFEE BREAK

Chairperson: HAUCK, C

17:30–17:45; EGU2008-A-02467; CR4-1WE5O-001

Mair, V.; **Zischg, A.;** Stötter, J.; Krainer, K.; Zilger, J.; Belitz, K.; Schenk, A.; Damm, B.; Bucher, K.
PROALP - Mapping and monitoring of permafrost phenomena in the Autonomous Province of Bolzano, Italy

17:45–18:00; EGU2008-A-11735; CR4-1WE5O-002

Domine, F.; Bisiaux, M.; Gallet, J.-C.; Zender, C.
Impact of the heat conductivity of snow on permafrost extent

18:00–18:15; EGU2008-A-10496; CR4-1WE5O-003

Krautblatter, M.
Permafrost aggradation in the rock crest „Steintälli“ (Valais, Switzerland) as a multiannual response to cool summers recorded by a three-year monitoring of rock permafrost by 2D/3D ERT and refraction seismics

18:15–18:30; EGU2008-A-10524; CR4-1WE5O-004

Marescot, L. ; Loke, M.H.; Abbet, D.; Delaloye, R.; Hauck, C.; Hilbich, C.; Lambiel, C.; Morard, S.; Reynard, E.
Model appraisal and resolution analysis of geoelectric imaging results for frozen ground investigations (solicited)

18:30–18:45; EGU2008-A-00503; CR4-1WE5O-005

Westermann, S.; Werban, U.; Bolton, W. R.; Boike, J.
DC Electrical Resistivity Imaging at a High-Arctic Continuous Permafrost Site in Svalbard, Norway

18:45–19:00; EGU2008-A-02414; CR4-1WE5O-006
Wollschläger, U.; Gerhards, H.; Pfaff, T.; Yu, Q.; Roth, K.
Application of multi-channel GPR to explore permafrost structures on the Qinghai-Tibet Plateau

19:00–19:15; EGU2008-A-06663; CR4-1WE5O-007
Hertrich, M.; Walbrecker, J.
The potential of surface-NMR to image water in permafrost and glacier ice (solicited)

19:15 END OF SESSION

CR4 Open Session on Permafrost (co-listed in CM, GL & NH) – Posters

Convener: Gruber, S.
Co-Convener(s): Hauck, C.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 13:30–15:00
Poster Area Hall A
Chairperson: N.N.

A0001; EGU2008-A-00517; CR4-1WE3P-0001
Zemskova, A.M.; Streletskaia, I.D.; Vasiliev, A.A.
The study of cryogenic morphology of Quaternary deposits of the Western Taimyr Coast (research in the frames of IPY 2007-2009)

A0002; EGU2008-A-01247; CR4-1WE3P-0002
Lupachev, A.V.; Gubin, S.V.
Carbon Storage within the Transitive Layer of Permafrost

A0003; EGU2008-A-01433; CR4-1WE3P-0003
Ramos, M.; PERMAMODEL-PERMADRILL
Permafrost and active layer monitoring in the Maritime Antarctic. Objectives and preliminary results of the PERMAMODEL-PERMADRILL project during 2007-08 Antarctic campaign.

A0004; EGU2008-A-01434; CR4-1WE3P-0004
Ramos, M.; Gómez-Elvira, J.; Sebastian, E.; Martín, J.; Armiens, C.; Blanco, J.J.; de Pablo, M.A.; Tomé, D.
Antarctic experience on a permafrost region to test REMS (Rover Environmental Monitoring Station-Mars Science laboratory) sensors

A0005; EGU2008-A-02224; CR4-1WE3P-0005
Schirrmeister, L.; **Wetterich, S.;** Grosse, G.; Andreev, A.; Kienast, F.; Meyer, H.
Stages of the Late Quaternary environment of NE Siberian lowlands during the last 200 ka – Permafrost records from northern Yakutia

A0006; EGU2008-A-02814; CR4-1WE3P-0006
Hausmann, H.; Krainer, K.; Brückl, E.; Blöschl, G.
Geophysical investigations of alpine permafrost in the Ötztal Alps of Austria

A0007; EGU2008-A-04312; CR4-1WE3P-0007
Blanco, J.J.; Ramos, M.; Vieira, G.; Gruber, S.; Hauck, C.; Tomé, D.; de Pablo, M.A.
Soil thermal behaviour from the temperature soil regime in Livingston Island (South Shetlands, Maritime Antarctic)

A0008; EGU2008-A-04760; CR4-1WE3P-0008
Bagard, M.L.; Chabaux, F.; Pokrovsky, O.S.; Prokushkin, A.S.; Viers, J.; Dupré, B.
Temporal variations of chemical weathering fluxes in boreal rivers under permafrost conditions. Example of the Nizhnaya Tunguska watershed (Central Siberia).

A0009; EGU2008-A-04985; CR4-1WE3P-0009
Hoelzle, M.; Gruber, S.
Borehole and Ground Surface Temperatures and their Relationship to Meteorological Conditions in the Swiss Alps

A0010; EGU2008-A-07499; CR4-1WE3P-0010
Papadimitriou, S.; **Catto, N.**
Permafrost-related Hazards and Community Development, Gjoa Haven, Nunavut, Canada

A0011; EGU2008-A-08746; CR4-1WE3P-0011
Noetzli, J.; Roer, I.; Vonder Muehl, D.
PERMOS – towards a standardized network for monitoring mountain permafrost in the Swiss Alps

A0012; EGU2008-A-09521; CR4-1WE3P-0012
Morard, S.; Delaloye, R.; Lambiel, C.
Time-lapse electrical resistivity tomography (ERT) to estimate temperature changes at depth in a low elevation ventilated cold talus slope (Dreveneuse, Swiss Prealps)

A0013; EGU2008-A-10358; CR4-1WE3P-0013
Leopold, M.; Voelkel, J.; Dethier, D.P.; Raab, T.A.
Combining geophysical methods and drillings to study the shallow subsurface of a sensitive alpine environment, Niwot Ridge, Colorado Front Range, USA

A0014; EGU2008-A-10383; CR4-1WE3P-0014
Krautblatter, M.; Verleysdonk, S.
Rock wall permafrost monitoring with high-resolution 2D-ERT: lessons learnt from error estimates and a comparison of Wenner, Schlumberger, Gradient and Dipole-type arrays

A0015; EGU2008-A-10402; CR4-1WE3P-0015
Ravanel, L.; Allignol, F.; Deline, P.; Ravello, M.
Rock falls on steep rockwalls in the Mont Blanc massif in 2007: a GIS approach

A0016; EGU2008-A-10455; CR4-1WE3P-0016
Krautblatter, M.; **Verleysdonk, S.**
Thawing regime and response time of present-day and relict bedrock permafrost revealed by monthly geophysical monitoring (Zugspitze, German/Austrian Alps)

A0017; EGU2008-A-11035; CR4-1WE3P-0017
Hauck, C.; Bach, M.; Hilbich, C.; Rings, J.
Monitoring and quantifying subsurface ice and water content in permafrost regions based on geophysical data sets

A0018; EGU2008-A-11068; CR4-1WE3P-0018
Hilbich, C.; Roer, I.; **Hauck, C.**
Ground truth observations of the interior of a rockglacier as validation for geophysical monitoring data sets

A0019; EGU2008-A-11483; CR4-1WE3P-0019
Batista, V.; Melo, R.; **Vieira, G.;** Santos, F.; Ramos, M.; Hauck, C.
New data on geophysical surveying of permafrost in Livingston and Deception Islands, Maritime Antarctic. The campaign of 2007-08.

IS7 - CR5/NH7.4/CL51 Climate change impacts on glaciers, permafrost and related hazards (co-organised by CR, NH & CL)

Convener: Schneider, C.
Co-Convener(s): Kääb, A., Huggel, C., Raup, B.
Lecture Room 30
Chairperson: HUGGEL, C.

13:30–13:45; EGU2008-A-03644; IS7 - CR5/NH7.4/CL51-1WE3O-001

Haeblerli, W.; Hohmann, R.

Climate, glaciers and permafrost in the Swiss Alps during the first half of the 21st century: scenarios, consequences and recommendations

13:45–14:00; EGU2008-A-01029; IS7 - CR5/NH7.4/CL51-1WE3O-002

Weber, M.; Prasad, M.; Strasser, U.; Mauser, W.

Embedded grid-modelling of 506 glaciers in the upper Danube basin

14:00–14:15; EGU2008-A-10557; IS7 - CR5/NH7.4/CL51-1WE3O-003

Schmidt, S.; Nüsser, M.

Glacier Changes in the Nanga Parbat Himalaya (Northern Areas of Pakistan) over the Last 70 Years

14:15–14:30; EGU2008-A-08648; IS7 - CR5/NH7.4/CL51-1WE3O-004

Quincey, D.J.; Luckman, A.

Everest-region glacier recession measured by satellite radar interferometry and feature tracking

14:30–14:45; EGU2008-A-01760; IS7 - CR5/NH7.4/CL51-1WE3O-005

Ye, Q.; Yao, T.

Glacier and lake variations in some regions on Tibetan Plateau using remote sensing and GIS technologies

14:45–15:00; EGU2008-A-10964; IS7 - CR5/NH7.4/CL51-1WE3O-006

Märlig, T.; Cullen, N.J.; Hardy, D.R.; Chiang, J.C.; Kaser, G.

Detecting local-scale to large-scale climate change in the tropics from glacier recession on Kilimanjaro (East Africa): observations, proxies, and numerical models

15:00 COFFEE BREAK

Chairperson: SCHNEIDER, C.

15:30–15:45; EGU2008-A-10403; IS7 - CR5/NH7.4/CL51-1WE4O-001

Bolch, T.; Menounos, B.; Wheate, R.

Remotely-sensed Western Canadian Glacier Inventory 1985-2005 and regional Glacier Recession Rates

15:45–16:00; EGU2008-A-11758; IS7 - CR5/NH7.4/CL51-1WE4O-002

Hanisch, J.; Schulze, O.

The genesis of Huascarán-like sturzstroms - a new physical approach

16:00–16:15; EGU2008-A-12412; IS7 - CR5/NH7.4/CL51-1WE4O-003

Ren, D.; Leslie, L.M.; Karoly, D.J.

Greenland Ice Sheet Response to Transient Climate Change: Consensus between two CGCMs

16:15–16:30; EGU2008-A-06644; IS7 - CR5/NH7.4/CL51-1WE4O-004

Blome, T.; Hagemann, S.

REMO in high latitudes - extending a regional climate model's soil scheme for permafrost purposes

16:30 END OF SESSION

IS7 - CR5/NH7.4/CL51 Climate change impacts on glaciers, permafrost and related hazards (co-organised by CR, NH & CL) – Posters

Convener: Schneider, C.
Co-Convener(s): Kääb, A., Huggel, C., Raup, B.
Display Time: Wednesday, 08:00–19:30

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

Poster Area Hall A
Chairperson: KÄÄB, A.

A0020; EGU2008-A-03348; IS7 - CR5/NH7.4/CL51-1WE5P-0020

Steiner, D.; Pauling, A.; **Nussbaumer, S. U.;** Nesje, A.; Luterbacher, J.; Wanner, H.; Zumbühl, H. J.

Sensitivity of European glaciers to precipitation and temperature – two case studies

A0021; EGU2008-A-08461; IS7 - CR5/NH7.4/CL51-1WE5P-0021

Hynek, B.; Binder, D; Brückl, E; Böhm, R; Kroisleitner, C; Schöner, W

Glacier volume changes 1871-1998 in Goldberggruppe (Hohe Tauern, Austria) extracted from historic contour maps and digital elevation models (cancelled)

A0022; EGU2008-A-09222; IS7 - CR5/NH7.4/CL51-1WE5P-0022

Avian, M.; Kellerer-Pirklbauer, A.; Moser, L.; Lambricht, A.

Glaciation Changes in the Hohe Tauern Range (Austria) between 1969 and 2003 based on Optical Remote Imagery: First Results

A0023; EGU2008-A-05439; IS7 - CR5/NH7.4/CL51-1WE5P-0023

Damm, B.; **Felderer, A.**

Identification and assessment of natural hazards in relation to permafrost degradation in the Ahrn Valley area in South Tyrol (Italy)

A0024; EGU2008-A-07180; IS7 - CR5/NH7.4/CL51-1WE5P-0024

Nemec, J.; Huybrechts, P.; Rybak, O.; Oerlemans, J.

Reconstruction of the surface mass balance of Morteratschgletscher since 1865

A0025; EGU2008-A-10510; IS7 - CR5/NH7.4/CL51-1WE5P-0025

Salamon, M.; Székely, B.; Kerschner, H.

Glacier volume changes depending on exposition and altitude in the Zillertal Alps, Austria/Italy

A0026; EGU2008-A-09855; IS7 - CR5/NH7.4/CL51-1WE5P-0026

Sattler, K.; Keiler, M.; Zischg, A.; Schrott, L.

Relation between changes in debris-flow activity and degradation of alpine permafrost – a case study from the Schnalstal, Italian Alps

A0027; EGU2008-A-10361; IS7 - CR5/NH7.4/CL51-1WE5P-0027

Ravanel, L.; Deline, P.; Jaillet, S.; Rabatel, A.

Quantifying rock falls/avalanches in steep high-alpine rock walls: three years of laserscanning in the Mont Blanc massif

A0028; EGU2008-A-11263; IS7 - CR5/NH7.4/CL51-1WE5P-0028

Langer, M.; Damm, B.

CRYOSNOW – An approach for mapping and simulation of mountain permafrost distribution based on the spatial analyses of perennial snow patches

A0029; EGU2008-A-00940; IS7 - CR5/NH7.4/CL51-1WE5P-0029

Winkler, S.; Elvehøy, H.; Nesje, A.

Glacier fluctuations of Jostedalsbreen, West Norway, during the past 20 years - an example of detailed documentation of sensitively responding maritime mountain glaciers

A0030; EGU2008-A-00941; IS7 - CR5/NH7.4/CL51-1WE5P-0030

Baumann, S.; **Winkler, S.;** Andreassen, L. M.

Mapping and analysis of the glacier area during the Little Ice Age-maximum in Jotunheimen, Norway

A0031; EGU2008-A-07932; IS7 - CR5/NH7.4/CL51-1WE5P-0031

Manea, A.; Dumitrescu, Al.; Ralita, I.; Boroneant, C.

Ice deposit trends in Romania in relation with climate change

A0032; EGU2008-A-00718; IS7 - CR5/NH7.4/CL51-1WE5P-0032

Kutuzov, S.; Shahgedanova, M

Glacier retreat and climatic variability in the eastern Terskey-Alatau, inner Tien-Shan between the middle of the 19th century and beginning of the 21st century

A0033; EGU2008-A-00738; IS7 - CR5/NH7.4/CL51-1WE5P-0033

Grant, K.; Stokes, C.; Shahgedanova, M

Changes in Glacier Extent and Links to Twentieth Century Climatic Variability on Novaya Zemlya, Russian Arctic

A0034; EGU2008-A-04681; IS7 - CR5/NH7.4/CL51-1WE5P-0034

Wang, G.Y.; Shen, Y.P.; Mao, W.Y.

Climate warming at headwater of r^{-1}mqi Riverf-Xinjiang in past 44 years and its impact on glacier shrinking

A0035; EGU2008-A-05334; IS7 - CR5/NH7.4/CL51-1WE5P-0035

Kääb, A.; Frauenfelder, R.; Frauenfelder Kääb, J.A.

Glacier distribution and glacier area changes 1960s-2000 in the Brahmaputra river basin

A0036; EGU2008-A-04525; IS7 - CR5/NH7.4/CL51-1WE5P-0036

Narama, C.; Kääb, A.; Severskiy, I.; Abdrakhmatov, K.

Remote-sensing based analysis of glacier lake hazards in the Tien Shan mountains associated with recent glacier shrinkage

A0037; EGU2008-A-00174; IS7 - CR5/NH7.4/CL51-1WE5P-0037

Rabatel, A.; Castebrunet, H.; Favier, V.; Garrido, R.; Herrera, M.-J.; Marin, J.; Nicholson, L.

Glacier monitoring in the semi-arid Andes of Chile (29°S), projections for their future evolution

A0038; EGU2008-A-08801; IS7 - CR5/NH7.4/CL51-1WE5P-0038

Hubbard, B.; Clemmens, S.

Recent high-resolution surface velocity and elevation change at a high-altitude, debris-covered glacier: Chacraraju, Peru

A0039; EGU2008-A-03432; IS7 - CR5/NH7.4/CL51-1WE5P-0039

Möller, M.; **Schneider, C.**

Estimating surface area changes of Gran Campo Nevado Ice Cap until 2100 using calibrated volume-area scaling

A0040; EGU2008-A-07278; IS7 - CR5/NH7.4/CL51-1WE5P-0040

Le Bris, R.; Berthier, E.; Testut, L.; Rémy, F

Surface and volume evolution of the Cook Ice Cap on Kerguelen Island since 40 years

CR11 Artificial Snow and Climate Change - physical, social and economic assessment

Convener: de Jong, C.

Co-Convener(s): Cetara, L., Rixen, C.

Lecture Room 30

Chairperson: DE JONG, C.

10:30–10:45; EGU2008-A-04227; CR11-1WE2O-001

Olefs, M.; Fischer, A.; Lang, J.

An artificial snow climatology for Austria

10:45–11:00; EGU2008-A-04975; CR11-1WE2O-002

Giacomelli, P.; **Carboni, V.;** Brambilla, M.; Rossetti, A.

Mountain economy, snow and climate change. The case of Valtellina.

11:00–11:15; EGU2008-A-11003; CR11-1WE2O-003

Gallati, G.

The importance of artificial snow for winter tourism in the Swiss alps

11:15–11:30; EGU2008-A-09958; CR11-1WE2O-004

Cetara, L.; Angelini, P.

What social and economic impact of artificial snowmaking on mountain regions

11:30–11:45; EGU2008-A-10145; CR11-1WE2O-005

Rixen, R

Vegetation responses to artificial snow

11:45–12:00; EGU2008-A-11450; CR11-1WE2O-006

de Jong, C.

Relations between artificial snow and skiing accidents in the European Alps

12:00 END OF SESSION

IS8 - CR13/HS1.6/NH7.3 Glacial Lake Outburst Floods: Current issues - future concerns (co-organized by CR, HS & NH)

Convener: Reynolds, J.

Co-Convener(s): Funk, M.

Lecture Room 30

Chairperson: REYNOLDS, J.

8:30–8:45; EGU2008-A-03355; IS8 - CR13/HS1.6/NH7.3-1WE1O-001

Haerberli, W.; Huggel, C.; Frey, H.; Kääb, A.

New glacial and periglacial lakes in warming mountain areas: potential outburst mechanisms and hazard assessments

8:45–9:00; EGU2008-A-01898; IS8 - CR13/HS1.6/NH7.3-1WE1O-002

Benn, D.; Gulley, J.; Luckman, A.; James, T

Englacial and supraglacial hydrology of Himalayan glaciers, and their role in GLOF hazard evolution

9:00–9:15; EGU2008-A-02845; IS8 - CR13/HS1.6/NH7.3-1WE1O-003

Ng, F.; Liu, S.

Temporal dynamics of a jökulhlaup system

9:15–9:30; EGU2008-A-00869; IS8 - CR13/HS1.6/NH7.3-1WE1O-004

Wolfe, D.; Loso, M.; Dial, R

Characterization and remote evaluation of previously known and new glacier-dammed lakes across Alaska, USA, from 1971 to 2000

9:30–9:45; EGU2008-A-06275; IS8 - CR13/HS1.6/NH7.3-1WE1O-005

Reynolds, J.M.

Glacial hazards and risk management in the Himalayas – lessons learnt and outstanding issues

9:45–10:00; EGU2008-A-00561; IS8 -
CR13/HS1.6/NH7.3-1WE10-006
-Ul-Haq, Ehsan
Community Response to Climatic Hazards in Northern
Pakistan

10:00 END OF SESSION

Thursday

CR11 Artificial Snow and Climate Change - physical, social and economic assessment – Posters

Convener: de Jong, C.

Co-Convener(s): Cetara, L., Rixen, C.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 15:30–17:00

Poster Area Hall A

Chairperson: RIXEN, C.

A0001; EGU2008-A-02579; CR11-1TH4P-0001

Steiger, R.

Limits of Snowmaking in a changing Climate

A0002; EGU2008-A-03372; CR11-1TH4P-0002

Mayr, G. J.; Käfer, J.

Dynamic-statistical prediction of snow making conditions

A0003; EGU2008-A-11002; CR11-1TH4P-0003

Arabas, S.; **Paccard, P.;** Haga, L.; Junkermann, W.; Kulawik, B.; de Jong, C.

Signatures of Evaporation of Artificial Snow in the Alpine Lower Troposphere (SEASALT)

A0004; EGU2008-A-09801; CR11-1TH4P-0004

Freppaz, M.F.; Francione, C.F.; Cucchi, M.C.; Colla, A.C.; Maggioni, M.M.; Filippa, G.F.; Zanini, E.Z.

Artificial snow production with respect to the altitude: a case study in the Italian Western Alps

A0005; EGU2008-A-05995; CR11-1TH4P-0005

Reiter, A.; **Strasser, U.;** Mauser, W.

Effects of snow cannons and artificial snow on energy industry and hydrology in the province Salzburg (Austria)

A0006; EGU2008-A-07807; CR11-1TH4P-0006

PACCARD, P.

Water and tourism in mountains: the case of artificial snow in countries of the alpine arc.

A0007; EGU2008-A-08251; CR11-1TH4P-0007

Dimitrova, I.

Climate change, artificial snow and factors for development of tourism in Bulgaria

CR14 Mountain Hydrology, Glaciology and Climatology: present state and future scenarios (co-listed in HS) – Posters

Convener: Viviroli, D.

Co-Convener(s): de Jong, C., Molnia, B.

Display Time: Thursday, 08:00–19:30

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

Poster Area Hall A

Chairperson: MOLINA, B.

A0008; EGU2008-A-01506; CR14-1TH5P-0008

Shen, Y P; Wang, G Y; Su, H C; Gao, Q Z

Hydrological processes responding to climate warming in a snow-dominated river basin of the Altay Mountains region, Xinjiang, China

A0009; EGU2008-A-10508; CR14-1TH5P-0009

Bolch, T.; Buchroithner, M.F.; Pieczonka, T.; Bässler, M.
Glacier Change and Glacial Lake Formation in Khumbu Himalaya using Digital Elevation Models and Satellite Data

A0010; EGU2008-A-01606; CR14-1TH5P-0010

Muskett, R

GRACE Equivalent Water Mass Balance of the Himalayas and Tibet Plateau Region

A0011; EGU2008-A-04580; CR14-1TH5P-0011

Muskett, R.; Sauber, J; Molnia, B; Buchroithner, M
Elevation Comparison of ICESat Altimetry and Digital Elevation Models on the Himalayas and Tibet Plateau

A0012; EGU2008-A-10591; CR14-1TH5P-0012

Schmidt, S.

Analyses of Glacier Changes and Water Availability in Ladakh (Northern India)

A0013; EGU2008-A-09575; CR14-1TH5P-0013

Hagg, W.; Shahgedanova, M.; Zacios, M.; Mayer, C.; Lambrecht, A.; Popovnin, V.

Climate and runoff modelling in the Caucasus mountains

A0014; EGU2008-A-02273; CR14-1TH5P-0014

Morán-Tejeda, E.; Ceballos, A; Llorente Pinto, J.M
Middle-term evolution of river discharges, climatic variables and land-uses in Mediterranean mountainous environments

A0015; EGU2008-A-07586; CR14-1TH5P-0015

Busche, H.; Diekkrüger, B.

Modelling hydrological processes in a semi-arid, mountainous environment under consideration of uncertainties

A0016; EGU2008-A-04308; CR14-1TH5P-0016

Calderón Vega, M. F.; Ferraris, S.; Bevilacqua, I.; Salvai, L.; Haverkamp, R.

Simple calibration method for the estimation of daily solar global radiation from maximum and minimum temperatures

A0017; EGU2008-A-04116; CR14-1TH5P-0017

Hänggi, P.; Weingartner, R.

Streamflow variability in the Swiss Alps

A0018; EGU2008-A-07672; CR14-1TH5P-0018

Harum, T.; Poltnig, W.; Ruch, C.; Freundl, G.; Schlamberger, J.

Variability and trends of groundwater recharge in the last 200 years in a South Alpine groundwater system as consequence of climate change

CR17 Subglacial environments of glaciers and ice sheets

Convener: Hubbard, B.

Co-Convener(s): Vogel, S., Bingham, R., Fischer, U., Fricker, H.

Lecture Room 30

Chairperson: HUBBARD, B.

8:30–8:45; EGU2008-A-09039; CR17-1TH10-001

Shepherd, A.; Nienow, P; Hubbard, A; McMillan, M; King, M; Joughin, I

Coupled hydrology and flow at Greenland (solicited)

8:45–9:00; EGU2008-A-04929; CR17-1TH10-002

Pattyn, F.; Delcourt, C.; Matsuoka, K.

Improving high-resolution basal temperature estimates of the Antarctic ice sheet (solicited)

9:00–9:15; EGU2008-A-11126; CR17-1TH10-003

Anandakrishnan, S.; Peters, L; Horgan, H; Voigt, D; Holland, C

Lake Amundsen Scott, South Pole, Antarctica

9:15–9:30; EGU2008-A-06080; CR17-1TH1O-004
Kulesa, B.; Stuart, G.; Hobbs, A.; Booth, A.
Subglacial hydromechanical processes from seismic Amplitude Versus Offset (AVO) monitoring

9:30–9:45; EGU2008-A-11112; CR17-1TH1O-005
Rijsdijk, K.F.; van der Meer, J.J.M.; Warren, W.P.
Polygenetic, diachronic and glaciectonic diamicton facies associations at Killiney Bay Ireland provide a window into the dynamics of subglacial till rheology

9:45–10:00; EGU2008-A-11565; CR17-1TH1O-006
Tulaczyk, S.; Pettersson, R.; Quintana-Krupinski, N.; Fricker, H.; Joughin, I.; Smith, B.
Do dynamic subglacial lakes impact temporal behavior of fast-flowing ice streams? GPS and radar investigations on two West Antarctic ice streams (solicited)

10:00 COFFEE BREAK

Chairperson: VOGEL, S.

10:30–10:45; EGU2008-A-10712; CR17-1TH2O-001
Fricker, H. A.; Scambos, T.A.; Tulaczyk, S.
Subglacial lake drainage and outlet channel detection on Mercer and Whillans ice streams

10:45–11:00; EGU2008-A-10584; CR17-1TH2O-002
Blankenship, D.; Filina, I.; Young, D.; Danque, H.; Urban, T.; Peters, M.
Coupled ice, water and crustal systems beneath the West Antarctic ice sheet with implications for fast glacier flow and habitats. (solicited)

11:00 END OF SESSION

CR17 Subglacial environments of glaciers and ice sheets – Posters

Convener: Hubbard, B.
Co-Convener(s): Vogel, S., Bingham, R., Fischer, U., Fricker, H.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 13:30–15:00
Poster Area Hall A
Chairperson: FRICKER, H.

A0019; EGU2008-A-00681; CR17-1TH3P-0019
Quinton, W.L.
Runoff from Organic-Covered Permafrost Terrains: Improving Process Understanding and Parameterisations (solicited)

A0020; EGU2008-A-00703; CR17-1TH3P-0020
Bense, V.F.; Person, M.A.
Transient hydrodynamics within inter-cratonic sedimentary basins during glacial cycles (solicited)

A0021; EGU2008-A-01144; CR17-1TH3P-0021
Lemieux, J.-M.; Sudicky, E.A.; Peltier, W.R.; Tarasov, L.
Impact of the Wisconsinian glaciation on Canadian continental groundwater flow

A0022; EGU2008-A-03180; CR17-1TH3P-0022
Robinson, Z.P.; Fairchild, I.J.
Controls on the geochemical evolution of a shallow proglacial groundwater system, Skeiðarársandur, SE Iceland

A0023; EGU2008-A-00757; CR17-1TH3P-0023
Robinson, Z.P.; Fairchild, I.J.; Russell, A.J.
Hydrogeological implications of glacial landscape evolution

A0024; EGU2008-A-03716; CR17-1TH3P-0024
Buchardt, S. L.; Dahl-Jensen, D.
Basal melt rates in northern Greenland inferred from internal layers

A0025; EGU2008-A-05152; CR17-1TH3P-0025
BRADWELL, T.; Stoker, M.; Mathers, H.; Finlayson, A.; Fabel, D.
Glacial sediments beneath ice-streams: evidence from NW Scotland

A0026; EGU2008-A-05270; CR17-1TH3P-0026
Baker, N.; Christoffersen, P.; Arnold, N.; Bougamont, M.
Assessing the role of subglacial hydrology on the flow of Kamb Ice Stream (Ice Stream C): a numerical modelling approach

A0027; EGU2008-A-05496; CR17-1TH3P-0027
Bingham, R.G.; Scott, J.B.T.; Smith, A.M.; Hindmarsh, R.C.A.
Basal conditions at Pine Island Glacier imaged using deep-looking radar

A0028; EGU2008-A-05842; CR17-1TH3P-0028
Vogel, S.W.; Powell, R.D.
A concept for a new hot water-based, smart soft-coiled tubing drill system for interdisciplinary study of subglacial environments beneath ice sheets.

A0029; EGU2008-A-06633; CR17-1TH3P-0029
van der Ploeg, M.J.; Haldorsen, S.; Leijnse, A.; Heim, M.
Groundwater flow and heat transport in the arctic area of Ny-Ålesund, Svalbard

A0030; EGU2008-A-07421; CR17-1TH3P-0030
Samyn, D.; Marchant, D.M.; Lorrain, R.L.; Tison, J.-L.
Investigating the potential for palaeo-climatic record in buried ice from the Dry Valleys, Antarctica

A0031; EGU2008-A-07795; CR17-1TH3P-0031
Raidla, V.; Karro, E.; Kirsimäe, K.; Marandi, A.; **Vaikmäe, R.**
Geochemical evolution of groundwater in Cambrian-Vendian (Ediacaran) aquifer of Baltic Basin

A0032; EGU2008-A-09592; CR17-1TH3P-0032
Magnússon, E.; Rott, H.; Björnsson, H.; Roberts, M.J.; Pálsson, F.; Geirsson, H.; Sturkell, E.; Bennett, R.
Anomalies in the vertical ice motion of Vatnajökull, Iceland: Hydraulic jacking versus strain-uplift

A0033; EGU2008-A-10006; CR17-1TH3P-0033
Piotrowski, J.A.; Hermanowski, P.; Piechota, A.
Fast ice flow at the southern fringe of the Scandinavian Ice Sheet facilitated by specific subglacial meltwater drainage conditions (cancelled)

A0034; EGU2008-A-12085; CR17-1TH3P-0034
Vogel, S.W.; Powell, R.D.; Griffith, I.; Anderson, K.; Lawson, T.; Schiraga, S.A.
The NIU Ice Borehole ROV – Update Report on a new Tool for Subglacial Research

A0035; EGU2008-A-12089; CR17-1TH3P-0035
Vogel, S.W.; Tulaczyk, S.; Lanoil, B.
Chemistry of an Antarctic Subglacial Environment – The role of subglacial geochemical processes in global biogeochemical cycles and quantifying subglacial hydrological processes

CR18 Ice sheet - climate interactions (co-listed in CL)

Convener: Huybrechts, P.
Co-Convener(s): Fichet, T.
Lecture Room 30
Chairperson: HUYBRECHTS, P.

13:30–13:45; EGU2008-A-10756; CR18-1TH3O-001
Lourens, L.J.; Becker, J.; Bintanja, R.; Van der Wal, R.S.W
Late pliocene ice-age cycles untangled

13:45–14:00; EGU2008-A-01695; CR18-1TH3O-002
Yin, Q.Z.; Berger, A.; Crucifix, M.
Eurasian ice sheet reinforces East Asian summer monsoon 500 000 years ago

14:00–14:15; EGU2008-A-01425; CR18-1TH3O-003
Ganopolski, A.; Calov, R.
Simulation of glacial cycles and abrupt climate changes with a climate-ice sheet model of intermediate complexity (solicited)

14:15–14:30; EGU2008-A-01226; CR18-1TH3O-004
Swingedouw, D.; Fichet, T.; Huybrechts, P.; Goosse, H.; Driesschaert, E.; Loutre, MF
Antarctic ice-sheet melting provides negative feedbacks on future climate warming (solicited)

14:30–14:45; EGU2008-A-10521; CR18-1TH3O-005
Vizcaino, M. ; Mikolajewicz, U.; Jungclaus, J.; Schurgers, G.
Climate modification by future ice sheet changes and consequences for their mass balance

14:45–15:00; EGU2008-A-04060; CR18-1TH3O-006
Stone, E.J.; Lunt, D.J.; Valdes, P.J.
The importance of vegetation feedbacks on the past and future deglaciation of Greenland

15:00 END OF SESSION

CR18 Ice sheet - climate interactions (co-listed in CL) – Posters

Convener: Huybrechts, P.
Co-Convener(s): Fichet, T.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
Poster Area Hall A
Chairperson: FICHEFET, T.

A0036; EGU2008-A-09666; CR18-1TH5P-0036
Powell, R.; Naish, T.; Levy, R.; and the ANDRILL-McMurdo Ice Shelf, .
West Antarctic Ice Sheet dynamics and its long- and short-term responses: Implications from ANDRILL-McMurdo Ice Shelf Project drilling

A0037; EGU2008-A-04187; CR18-1TH5P-0037
Bonelli, S.; Charbit, S.; Ramstein, G.; Dumas, C.
Investigating the evolution of major northern hemisphere ice sheets during the last glacial-interglacial cycle under the effect of both insolation and CO2 forcings

A0038; EGU2008-A-04970; CR18-1TH5P-0038
Liakka, J.; Nilsson, J.
Feedbacks between atmosphere and ice sheets: surface mass balance response to Laurentide glacial boundary conditions

A0039; EGU2008-A-10978; CR18-1TH5P-0039
DeGiuli, E.; Clarke, G.K.C.; Jakobsson, M.
Modelling the Younger Dryas outburst flood of the Baltic Ice Lake

A0040; EGU2008-A-05537; CR18-1TH5P-0040
Alvarez-Solas, J.; Charbit, S.; Dumas, C.; Ramstein, G.
Investigating the conditions for large ice-sheet instabilities

A0041; EGU2008-A-05298; CR18-1TH5P-0041
Haasemann, K.; Huybrechts, P.
The effect of surface runoff on enhancing basal sliding and ice-sheet sensitivity in a three-dimensional Greenland ice sheet model

A0042; EGU2008-A-02939; CR18-1TH5P-0042
Dalu, G.A.; Baldi, M.
Influence of the snow cover in the Northern Hemisphere on the climate in Western Europe during the cold season

A0043; EGU2008-A-03782; CR18-1TH5P-0043
Loutre, M.F.; Fichet, T.; Goosse, H.; Huybrechts, P.; Mouchet, A.; Swingedouw, D.
How do ice sheets impact on climate sensitivity and ocean meridional overturning circulation?

CR19 Modelling ice-sheets and glaciers

Convener: Hindmarsh, R.
Co-Convener(s): Pattyn, F.
Lecture Room 30
Chairperson: HINDMARSH, R.

15:30–15:45; EGU2008-A-07294; CR19-1TH4O-001
Ritz, C.; Peyaud, V.; Dumas, C.
Possible sea level contribution of the East Antarctic ice sheet : MIS11 and beyond. (solicited)

15:45–16:00; EGU2008-A-00679; CR19-1TH4O-002
Karatay, M. R.; Hulton, N.R.J.; Nienow, P.W.; Zatsepin, S.
Hydraulics within a Greenland Ice Sheet model

16:00–16:15; EGU2008-A-01870; CR19-1TH4O-003
van den Berg, J.; van de Wal, R.S.W.; Oerlemans, J.
A mass balance model for the Eurasian Ice Sheet for the last 120,000 years

16:15–16:30; EGU2008-A-09910; CR19-1TH4O-004
Le Brocq, A.M.; Bentley, M.J.; Hubbard, A.
Reconstructing the contribution of the Weddell Sea sector, Antarctica, to sea level rise since the last glacial maximum, using numerical modelling constrained by field evidence.

16:30–16:45; EGU2008-A-07667; CR19-1TH4O-005
Zwinger, T.; Ruokolainen, J.; Lyly, M.; Forsström, P.-L.
Full-Stokes on a whole ice-sheet?

16:45–17:00; EGU2008-A-03451; CR19-1TH4O-006
Blatter, H.; Juvet, G.; Picasso, M.; Rappaz, J.
Numerical simulation of the dynamics of a glacier using a "volume-of-fluid" formulation.

17:00 COFFEE BREAK

Chairperson: PATTYN, F.

17:30–17:45; EGU2008-A-11492; CR19-1TH5O-001
Khazendar, A.; Rignot, E.; Larour, E.
The roles of rheology, fracture and marine ice in ice shelf stability (solicited)

17:45–18:00; EGU2008-A-11577; CR19-1TH5O-002
Schoof, C.; Rempel, A.
Ice stream shear margin migration

18:00–18:15; EGU2008-A-07883; CR19-1TH5O-003
Martin, C.; Gudmundsson, G. H.; Pritchard, H.; Gagliardini, O.
Ice flow and crystal fabric near ice divides

18:15–18:30; EGU2008-A-03814; CR19-1TH5O-004
Durand, G.; Gagliardini, O.; Zwinger, T.; Le Meur, E.
Full-Stokes modelling of the ice-sheet/ice-shelf transition: a contact problem

18:30–18:45; EGU2008-A-04109; CR19-1TH5O-005
Nowicki, S.; Wingham, D.
To float or not to float: conditions for a steady grounding line

18:45–19:00; EGU2008-A-10754; CR19-1TH5O-006
Arthern, R
Grounding lines, coastal stress-boundaries, and the inside-out ice sheet.

19:00 END OF SESSION

CR19 Modelling ice-sheets and glaciers – Posters

Convener: Hindmarsh, R.
Co-Convener(s): Pattyn, F.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 10:30–12:00
Poster Area Hall A
Chairperson: N.N.

A0044; EGU2008-A-07378; CR19-1TH2P-0044
Reerink, T.J. ; van de Wal, R.S.W; Borsboom, P.P.
A coupled 3D solution of the full stress velocity field in ice sheet - ice shelf models

A0045; EGU2008-A-09326; CR19-1TH2P-0045
Soucek, O.; Martinec, Z.
SIA-I algorithm - testing the performance on real data

A0046; EGU2008-A-01872; CR19-1TH2P-0046
Hindmarsh, R.C.A
Large-scale ice-sheet modelling with horizontal stress gradients

A0047; EGU2008-A-01877; CR19-1TH2P-0047
Leysinger Vieli, GJMC; **Hindmarsh, RCA;** Siegert, MJ
Towards modelling Holocene accumulation rate trends in East Antarctica deduced from isochronic radar layers

A0048; EGU2008-A-09728; CR19-1TH2P-0048
Rousselot, M.; Parrenin, F.; Gagliardini, O.; Hindmarsh, R.C.A
2D inverse modeling of isochrone layer geometry in a steady state ice sheet

A0049; EGU2008-A-06470; CR19-1TH2P-0049
Steen-Larsen, H. C.; Johnsen, S. J.; Dahl-Jensen, D.
The change in surface accumulation-rate pattern along the ridge from GRIP to NEEM during the Holocene

A0050; EGU2008-A-06398; CR19-1TH2P-0050
Gudmundsson, G. H.
Analytical analysis of small-amplitude perturbations in the shallow ice stream approximation

A0051; EGU2008-A-00181; CR19-1TH2P-0051
de Fleurian, B.; Gagliardini, O.; Lemeur, E.; Ritz, C.
Comparison of marine ice sheet models response to sea level variation

A0052; EGU2008-A-03261; CR19-1TH2P-0052
Humbert, A.; Kleiner, T.; Greve, R.; Mohrholz, C.-O.; Oelke, C; Lange, M.
A comparative modeling study of the Brunt Ice Shelf – Stancomb-Wills Ice Tongue System

A0053; EGU2008-A-09427; CR19-1TH2P-0053
Huybrechts, P.; Rybak, O.; Nemec, J.; Eisen, O.
Towards a coupled three-dimensional glacier/ mass balance model of the Morteratschgletscher, Engadin

A0054; EGU2008-A-08865; CR19-1TH2P-0054
Hubbard, B.; Chandler, D.M.; Hubbard, A.; Bayley, O.; Murray, T.
Physically-calibrated, 3D numerically modelled response of a temperate valley glacier to predicted climate change

A0055; EGU2008-A-00615; CR19-1TH2P-0055
Nepop, R.K.; Agatova, A.R.
Applying simple glacier model for calculating the parameters of Chagan-Uzun massif glaciation (SE Altai, Russia)

A0056; EGU2008-A-00614; CR19-1TH2P-0056
Nepop, R.K.; Agatova, A.R.
One-dimensional numerical glacier model and its applying for estimating the glacial erosion rate (by the example of SE Altai, Russia)

CR22 Glacier dynamics and calving fluxes: tidewater glaciers, ice streams and glacier surges

Convener: Murray, T.
Co-Convener(s): Benn, D., Nick, F.
Lecture Room 30
Chairperson: BENN, D.

11:00–11:15; EGU2008-A-01323; CR22-1TH2O-003
Vieli, A.; Nick, F. M.
Rapid changes of Greenland tidewater outlet glaciers: insights from numerical modelling (solicited)

11:15–11:30; EGU2008-A-11232; CR22-1TH2O-004
O’Neel, S; Pfeffer, W.T.; Larsen, C.F.; Fricker, H.A.; West, M.
Exploring snaps, pops and gurgles that produce seismic wiggles: linkages between glacier-generated seismicity and ice dynamics (solicited)

11:30–11:45; EGU2008-A-05663; CR22-1TH2O-005
Nettles, M.; the SERMI and EGGCITE teams
Short-time-scale variations in flow speed observed at Helheim Glacier, East Greenland (solicited)

11:45–12:00; EGU2008-A-07125; CR22-1TH2O-006
Lüthi, M.P.; Truffer, M; Motyka, R; Amundson, J; Fahnestock, M; Brown, J
Calving dynamics of Jakobshavn Isbrae

12:00 END OF SESSION

CR22 Glacier dynamics and calving fluxes: tidewater glaciers, ice streams and glacier surges – Posters

Convener: Murray, T.
Co-Convener(s): Benn, D., Nick, F.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 15:30–17:00
Poster Area Hall A
Chairperson: NICK, F.M.

A0057; EGU2008-A-03403; CR22-1TH4P-0057
Luckman, A
Greenland glaciers dynamics in relation to surface melt and sea-surface temperature

A0058; EGU2008-A-09229; CR22-1TH4P-0058
Brown, J; Truffer, M; Fatland, R; Fahnestock, M
Measuring iceberg motion in Ilulissat Icefjord

A0059; EGU2008-A-10203; CR22-1TH4P-0059

Motyka, R.; Fahnestock, M.; Truffer, M.; Brecher, H.; Luethi, M.

Photogrammetric re-analysis of 1985 aerial photography of Ilulissat Glacier (Jakobshavn Isbrae), Greenland: DEM's, orthomosaics, volume change, and ice velocities

A0060; EGU2008-A-07161; CR22-1TH4P-0060

Truffer, M.; Amundson, J.; Fahnestock, M.; Luethi, M.; Motyka, R.; Brown, J.

Velocity measurements on and near Ilulissat (Jakobshavn) Glacier, Greenland

A0061; EGU2008-A-07872; CR22-1TH4P-0061

Nick, F. M.; Vieli, A.; Benn, D.

Modelling the behaviour of Greenland outlet glaciers; a comparison of calving criteria
