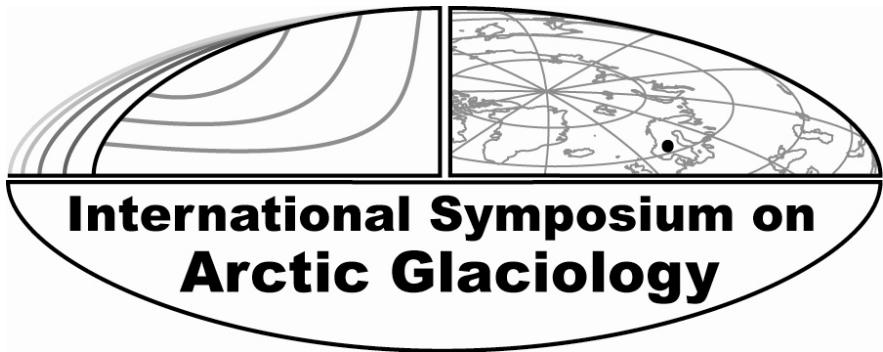


INTERNATIONAL GLACIOLOGICAL SOCIETY

**INTERNATIONAL SYMPOSIUM ON ARCTIC
GLACIOLOGY**

Geilo, Norway,
23–27 August 2004



CO-SPONSORED BY

**INTERNATIONAL ARCTIC SCIENCE COMMITTEE (IASC)
WORKING GROUP ON ARCTIC GLACIOLOGY**

**THIRD CIRCULAR
&
PROGRAMME**

July 2004
Registered Charity

INTERNATIONAL GLACIOLOGICAL SOCIETY

PRESIDENT

E.M. Morris

VICE PRESIDENTS

R.B. Alley, E. Brun, A. Ohmura

IMMEDIATE PAST PRESIDENT

R.A. Bindschadler

SYMPOSIUM ON ARCTIC GLACIOLOGY

The International Glaciological Society and the International Arctic Science Committee, Working Group on Arctic Glaciology will hold an International Symposium on Arctic Glaciology in Geilo, Norway from 23-27 August 2004.

SYMPOSIUM ORGANIZATION

Magnús Már Magnússon (Secretary General, International Glaciological Society)

LOCAL ARRANGEMENTS COMMITTEE

Jon Ove Hagen (chair), Elisabeth Isaksson, Jack Kohler, Kjetil Melvold, Rune Engeset, Thomas Schuler

EDITORIAL BOARD

Julian Dowdeswell (Chief Editor), Ian Willis (Assistant Chief Editor), Dorthe Dahl Jensen, Andrey Glazovskiy, Will Harrison, Elisabeth Isaksson, Jacek Jania, Tavi Murray, Hans Oerlemans, Niels Reeh.

INFORMATION ABOUT THE SYMPOSIUM MAY BE OBTAINED FROM:

International Glaciological Society, Scott Polar Research Institute,
Lensfield Road, Cambridge CB2 1ER, U.K.

Tel: + [44] (0)1223 355 974 Fax: + [44] (0)1223 336 543

E-mail: igsoc@igsoc.org

Web: <http://www.igsoc.org/symposia/>

<http://npolar.no/igs-geilo/>

or:

Dr. Kjetil Melvold

E-Mail: kjetil.melvold@geo.uio.no

Tel: +[47] 22 85 58 12, Fax: +[47] 22 85 42 15

Department of Geosciences, Section of Physical Geography,
University of Oslo, P.O. Box 1042 Blindern
N-0316 Oslo, Norway

LOCAL INFORMATION

Meeting events and accommodation will take place on the Bardøla conference hotel, Geilo, see: www.bardola.no. All meals will be served at the hotel.

More information about Geilo can be found at: <http://www.geilo.no/eindex.asp>

REGISTRATION AND ICEBREAKER

Registration will be in the hotel from 16:00 – 21:00 on Sunday 22. Registration continues on Monday 23 from 08:00. The registration desk will remain open through the week. Receipts and other materials will be distributed at registration. Your name tag is proof of your registration and should be worn to all events.

Icebreaker including some food and drinks will be held in the hotel from 20:00 to 22:00 on Sunday evening.

SYMPOSIUM SESSIONS

Oral and poster sessions are all in the hotel.

Oral presentations:

Participants will have 15 min for their presentation and 5 min for discussion. The following equipment is available for oral presentations: SVGA projectors (PDF or PowerPoint formats); overhead projector; and a 35 mm slide projector. Presenters are encouraged to use the digital projection system. An ftp site is available to upload talks before the symposium so that they may be previewed for compatibility with the projection system and organized for efficient projection during the meeting.

The ftp-site is: <ftp://ftp.geologi.uio.no/incoming/geilo>

If you cannot comply with ftp, please bring your presentation on a CD or on a memory stick (with the abstract number and title attached) to the registration desk between 08:00 and 09:00 the day BEFORE your presentation day. Monday presenters should provide their presentation on Sunday evening at the registration desk or arrive promptly at 08:00 on that day.

Posters:

The poster size is in general A0, or about 100 x 130 cm. Materials for attaching posters to the poster frames will be provided. Tuesday poster session can be mounted from Monday evening and taken down on Wednesday evening. Thursday poster session can be mounted on Wednesday evening/Thursday morning and taken down on Friday afternoon.

SOCIAL PROGRAMME

Sunday (20:00–22:00)	Icebreaker.
Wednesday (11:45–19:00)	Excursion to Finse - Hardangejøkulen ice cap.
Thursday 19:30	Banquet

MID–WEEK EXCURSION

A mid–week field trip will take meeting participants and accompanying persons to the ice cap Hardangejøkulen. We will go 40 minutes by train from Geilo, leaving at 11:45. The hotel will provide all participants with lunch boxes. The field trip will go by foot up to the glacier fronts of Hardangejøkulen. We will walk up on the tongue of the outlet Middtalsbreen and visit an automatic weather station there. The walk is about one hour from the railway station. We return by train from Finse at 18:19 and will have dinner at the hotel at 19:30. Please bring good walking boots and rain/wind gear. Travel and food cost is included in registration fee.

ACCOMPANYING PERSONS

Those registered as accompanying persons may join all the events in the social programme. Hotel Bardøla can provide information about local activities in Geilo. It is an excellent region for hiking.

POST-CONFERENCE EXCURSION – NORWAY

Three days excursion to the glaciers in western Norway by bus and foot.

Saturday 28 August. Geilo-Fjærland, visit glacier fronts and the Norwegian Glacier Museum.

Sunday 29 August Jostedalen-Nigardsbreen, outlet glaciers from Jostedalsbreen.

Monday 30 Jotunheimen, Storbreen glacier forefield, Juvflya, periglacial forms, bus to Lom–Otta – Oslo. Estimated arrival at Oslo airport Gardermoen is about 18:00 – 19:00.

WEATHER

August climate in Geilo can be highly variable, hot and sunny or cold and rainy, most likely about 10-15 degree Celsius. Weather forecast can be found at:

<http://met.no/buskerud/geilo.html>.

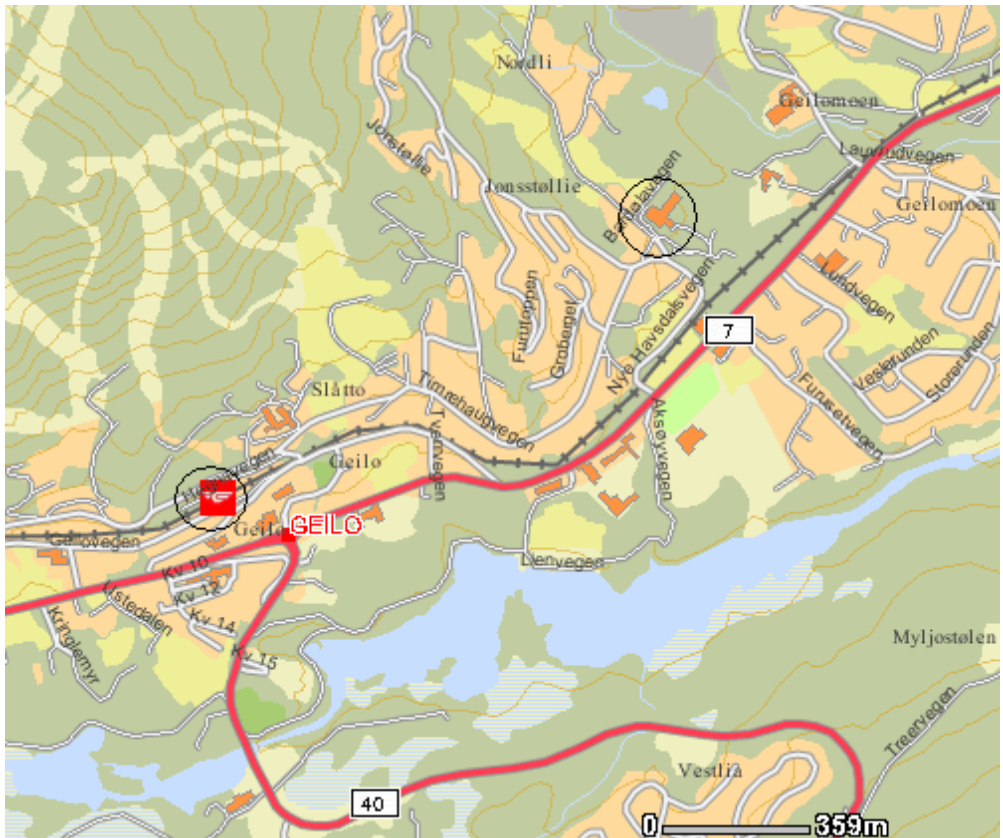
ACCOMMODATION AND TRANSPORTATION

Most participants will stay in the conference Hotel Bardøla (www.bardola.no). For more information or requests please take directly contact with the hotel (e-mail: post@bardola.no) All meals are served in the hotel. The prices include all meals and coffee-breaks.

There is wireless internet access at the hotel. PC's will be made available for internet access.

Geilo is primarily a winter sports village along the railroad between Oslo and Bergen, easily accessible from both Oslo and Bergen by train (see: www.nsb.no) or by bus or car. The train leaves from Oslo – arrival in Geilo at: 06:39 – 10:15, 08:11 – 11:42, 10:35 – 14:43, 16:11 – 19:40, 20:11 – 23:50, and 23:11 – 03:25. The returns from Geilo – arrival in Oslo are: 02:18 – 06:26, 06:00 – 09:52, 11:00 – 14:52, 14:44 – 17:52, 18:59 – 22:28 and 19:47 – 23:52.

The hotel is about 1500 m from the railway station, see map below where railway station and hotel Bardøla is marked in circles.



PUBLICATION

Refereed papers, accepted by the scientific editors, will be published as *Annals of Glaciology*, Volume 42, in 2005. All registered participants will receive a copy of this volume. Authors are expected to complete any necessary revisions to their papers within the month following the end of the symposium. Please ensure that you adhere to the Instructions to Authors issued previously. One **HARD COPY** of the final paper, **DOUBLE-SPACED WITH WIDE MARGINS**, with separate figure and table captions, and with all figures and tables added to the end of the paper, as well as any original art work, and a **PC-FORMATTED DISKETTE OR CD CONTAINING THE ELECTRONIC VERSION OF THE PAPER AND FIGURES**, must be submitted, through the appropriate editor, by 6 October 2004.

INTERNATIONAL SYMPOSIUM ARCTIC GLACIOLOGY

PROGRAMME OF SESSIONS

Please note that the programme may change if authors do not attend the Symposium.
Corrections will be posted outside the auditorium each day.

Numbers in the third column refer to abstract numbers

MONDAY, 23 AUGUST 2004

08:30

Opening of Symposium

Senior Council Member of the IGS
Prof Jon Ove Hagen (Chairman, Local Organizing Committee)
Dr Ian Willis (Co-Chief Editor)

Session 1: Dynamics of Arctic tidewater glaciers

08:50	Oerlemans & Nick	001	A minimal model of a calving glacier
09:10	Kaab and others	062	Flow field of Kronebreen, Svalbard, using repeated Landsat7 and ASTER data
09:30	Luckman & Murray	033	Title: Dynamic fluctuation of Kronebreen, Svalbard over ten years measured by ERS SAR feature tracking and its relationship to the surge of Monacobreen
09:50	Perski and others	101	Flow velocity of two tidewater glaciers in NW Spitsbergen surveyed by GPS and SAR Interferometry
10:10	Jania and others	141	Temporal and spatial variations of the flow velocity of Spitsbergen tidewater glaciers

10:30

Refreshments

Session 2: Arctic glacier dynamics I

11:00	Aðalgeirsdóttir and others	039	Analyses of two surging outlet glaciers of Vatnajökull ice cap, Iceland
11:20	Nelson and others	144	Evidence for both subglacial sediment deformation and sliding beneath the surge-type Brúarjökull, Iceland
11:40	Nuttall and others	094	Long-term dynamics and mass balance of Finsterwalderbreen, a Svalbard surge-type glacier.

12:00 Rippen and others 145 Annual and seasonal patterns of velocity and strain across the tongue of the polythermal glacier Midre Lovénbreen, Svalbard

12:20

Lunch

Session 3: Arctic glacier dynamics II

14:00 Hambrey and others 100 Structure and changing dynamics of a polythermal valley glacier on a centennial time-scale: midre Lovénbreen, Svalbard

14:20 Jackson and others 095 Velocity measurements on Engabreen, northern Norway.

14:40 Engeset and others 109 Jökulhlaup at Blåmannsisen, northern Norway: the first event and future risk

15:00 Vatne 117 Step-pool sequences in englacial meltwater channels, Austre Brøggerbreen, Svalbard.

15:20 Paul & Kaab 065 Challenges for glacier inventorying from Landsat ETM+ in the Canadian Arctic: Cumberland Peninsula, Baffin Island

15:40

Refreshments

Session 4: Greenland ice dynamics

16:10 Abdalati and others 125 Jakobshavn Isbrae Flow-Rate Increases During 2001, 2002, and 2003

16:30 Stearns and others 047 A 35-year record of ice dynamics on a large East Greenland outlet glacier: Daugård-Jensen Gletscher

16:50 Podlech and others 111 The Qagssimiut Lobe, a combined field and model study

17:10 Vogel and others 132 Subglacial conditions beneath the Greenland ice sheet – linkage between subglacial geology and ice dynamics I: Basal melt and sedimentary bed strength

17:30 Chandler and others 146 Basal ice motion and deformation at the ice sheet margin, West Greenland

17:50 Fahnestock 129 Basal sliding of the Greenland Ice Sheet constrained by interpretation of internal layering in ice penetrating radar profiles

20:00 **Meeting for members of IGS Council**

TUESDAY, 24 AUGUST 2004

Session 5: Greenland mass balance: observations I

08:30	Zwally and others	123	Greenland ice-sheet mass balance from satellite radar altimetry
08:50	Thomas and others	040	Elevation changes on the Greenland ice sheet from comparison of aircraft and ICESAT laser altimeter data
09:10	Krabill and others	026	Recent observations of increased thinning of the Greenland ice sheet measured by aircraft GPS and laser altimetry.
09:30	Khvorostovsky and others	147	Surface elevation variations of Greenland Ice Sheet derived from satellite altimeter data and their relation to the climate parameters
09:50	Yi and others	046	ICESat/GLAS Measurement of Greenland Ice Sheet Surface Slope and Roughness

10:10

Refreshments

Session 6: Greenland mass balance: observations II

10:40	Shuman & Fahnestock	124	Glaciology from ICESat - NE Greenland Ice Stream
11:00	Greuell	010	Estimation of the surface mass balance along the k-transect (Greenland ice sheet) from satellite-derived albedos
11:20	Taurisano & Boggild	009	Interpretation of over a half century of glacier elevation changes in West Greenland
11:40	Huybrechts and others	092	On the (ir-)reversibility of Greenland ice sheet melting in a warming climate
12:00	Sood	035	Fresh water discharge from Greenland using regional climate simulations

12:20

Lunch

Session 7: Greenland mass balance - modelling

14:00	Reeh and others	032	An empirical firn-densification model comprising ice lenses
14:20	Box	142	Greenland ice sheet surface mass balance variability: 1991-2003
14:40	Hanna and others	148	Current state and variability of surface mass balance of Greenland ice sheet, and links with climate

15:00	Jania and others	140	Temporal changes in radiophysical properties in a polythermal glacier during the ablation season
15:20	Calluy and others	024	Estimating the mass balance of Vatnajökull from NOAA-AVHRR imagery

15:40

Refreshments

Poster Session 1. Short presentations

16:00	De Angelis & Kleman	023	Paleo-ice streams in the northern Keewatin sector of the Laurentide ice-sheet
16:02	Foster and others	133	Ice surface velocities and elevation changes on the Bering Glacier, Alaska, U.S.A.
16:04	Dowdeswell, J. and others	016	On the marine-terminating outlet glaciers draining the Prince of Wales and Agassiz ice caps, Ellesmere Island, Arctic Canada
16:06	Kronborg and others	127	The quantity and possible mechanisms of subglacial entrained debris during the 1995-98 Kuannersuit Glacier surge, West Greenland
16:08	Larsen and others	126	A thrust-moraine composed of debris-rich naled and glaciofluvial sediments: evidence of rapid drainage during the termination of the Kuannersuit Glacier surge, West Greenland?
16:10	Murray and others	056	Dynamic thinning of two outlet glaciers in Arctic East Greenland
16:12	Stuart and others	055	Acoustic emissions from a surging glacier: Bakaninbreen, Svalbard
16:14	Moskalevsky and others	108	Changes in the surface elevation, thickness and volume of surging Fridtjovbreen Glacier (Svalbard) in the last century
16:16	Berggren and others	104	Investigations of temporal changes in the ice dynamics on Nordenskjöldbreen, Svalbard
16:18	Navarro and others	061	Structure, dynamics and ice volume changes of Aldegondabreen (Spitsbergen) during 1936-1990
16:20	Kononov & Ananicheva	057	The millennium dynamics of Polar Ural glaciers by high resolution reconstruction of glacier mass balance
16:22	Shevnina & Savatyugin	139	Flow dynamics of Academiya Nauk ice cap, Severnaya Zemlya archipelago.
16:24	Pope and others	078	Improving the reliability of photogrammetrically-derived elevation models of high Arctic glaciers using multiple failure warning models

16:26	Sneed & Hamilton	008	Data fusion using ASTER satellite imagery to map snow and ice facies on glaciers in Svalbard
16:28	Raup and others	099	Comparative image analysis to ensure data quality in the Global Land Ice Measurements from Space (GLIMS) glacier database.
16:30	Cawkwell and others	097	Calibration and validation of the CryoSat radar altimeter: field studies on the Devon Ice Cap, 2004
16:32	Dowdeswell, E. & J.	017	Recent changes in the dimensions of the glaciers on Bylot Island, Arctic Canada
16:34	McKinzev and others	030	A revised little ice age chronology of key Vatnajökull outlet glaciers, southeast Iceland
16:38	Brugger and others	098	Variation in glacier length and ice volume of Rabots Glaciär in response to climate change, 1910 – 2003
16:40	Ziaja	041	Response of Grumantbreen, Håbergbreen and Dryadbreen glaciers (central-west Nordenskiöld Land, Spitsbergen) to the climate warming after the Little Ice Age
16:42	Bukowska-Jania	138	Specific function of the glacier system in migration of calcium carbonate in Svalbard (as an example)
16:44	Hodson and others	149	Water and energy balance of a maritime High Arctic glacier: multi-year observations from Midre Lovenbreen, Svalbard
16:46	Arkchipov and others	007	Geochemistry of the nival-glacial complexes of Nordensheld Land, Svalbard
16:48	Savvichev and others	091	Microbiological studies of the water-snow-ice complexes in the area of Shokalsky glacier (Novaya Zemlya archipelago)

16:50

POSTERS

WEDNESDAY, 25 AUGUST 2004

Session 8: Remote sensing of Arctic glaciers and ice caps I

- | | | | |
|-------|------------------|-----|---|
| 08:30 | Konig and others | 037 | Firn Area and Mass Balance Monitoring of Svalbard Glaciers with Synthetic Aperture Radar (SAR) Satellite Images. |
| 08:50 | Brown and others | 113 | The effect of mass balance changes on SAR backscatter: a case study from two Arctic glaciers |
| 09:10 | Høgda and others | 089 | Comparison of digital elevation models from airborne SAR technology and airborne laser scanner technology at Engabreen, Svartisen, Norway |
| 09:30 | Geist and others | 088 | Using airborne laser scanning technology for evaluating volume changes at Engabreen, Svartisen, Norway |
| 09:50 | Hagen and others | 107 | Cryosat calibration and validation investigations on Austfonna, Svalbard |
| 10:10 | | | Refreshments |

Session 9: Remote sensing of Arctic glaciers and ice caps II

- | | | | |
|-------|---------------------|-----|--|
| 10:30 | Bamber and others | 034 | Interpretation of elevation changes on Svalbard glaciers and ice caps from airborne LIDAR data |
| 10:50 | Hamilton and others | 083 | Ice Cap Variations and Climate Change in Northeast Svalbard |
| 11:10 | | | BREAK |
| 11:30 | EXCURSION | | |

THURSDAY, 26 AUGUST 2004

Session 10: Arctic glacier mass balance: modelling

- | | | | |
|-------|----------------------|-----|---|
| 08:30 | de Woul & Hock | 015 | Static mass balance sensitivity of Arctic glaciers and ice caps using a degree-day approach |
| 08:50 | Braithwaite | 038 | Mass balance characteristics of Arctic glaciers |
| 09:10 | Melvold and others | 105 | Glacier mass balance of glaciers in the Kongsfjorden area, northwest Spitsbergen modeled with an energy balance model |
| 09:30 | Oerlemans and others | 019 | Estimating the runoff from Arctic glaciers in the next hundred years |

09:50 Bintanja and others 029 A one million year record of Northern Hemispheric temperature, ice sheet volume and global sea level

10:10 **Refreshments**

Session 11: Arctic glacier mass balance: Svalbard I

10:40 Grabiec 085 Relations between topographical conditions and distribution of the snow accumulation on the selected glaciers of Svalbard

11:00 Jaedicke & Gauer 013 The influence of drifting snow on the location of glaciers on western Spitsbergen

11:20 Hodgkins and others 020 Topographic Controls on the Spatial Distribution of Winter Accumulation at a High-Arctic Glacier (Finsterwalderbreen, Svalbard)

11:40 Kohler & Brandt 134 Revisiting the mass balance record on Austre Brøggerbreen and Midre Lovénbreen, Svalbard

12:00 Nowak 084 Physical properties of the glacier surface and the albedo. Waldemarbreen, Svalbard

12:20 **Lunch**

Session 12: Arctic glacier mass balance: Svalbard II

14:00 Grabiec 136 The attempt of estimation of the snow accumulation on the glaciers of Svalbard basing upon meteorological data from the coastal stations

14:20 Hagen and others 014 Geometry changes on Svalbard glaciers - mass balance or dynamic response?

14:40 Schuler and others 045 Assessing the future evolution of meltwater intrusions into a mine below Gruvefonna, Svalbard

15:00 Wright and others 048 Modelling the Impact of Meltwater Re-freezing and Superimposed Ice Formation on the Mass Balance of a High Arctic Glacier

15:20 Leibman and others 051 Geochemical properties of the water-snow-ice complexes in the area of Shokalsky glacier, Novaya Zemlya archipelago

15:20 **Refreshments**

Poster Session 2. Short presentations

- 15:40 Yamagishi and others 063 Reevaluation of paleo-accumulation parameterization over northern hemisphere ice sheet during ice age examined with a high resolution atmospheric GCM and a 3D-ice sheet model.
- 15:42 Brandt and others 064 Glacier net balance rates derived from internal tephra layers in the ice caps Myrdalsjökull and Vatnajökul, Iceland
- 15:44 Björnsson and others 090 Katabatic winds on Vatnajökull, Iceland, generated by the lateral temperature gradients
- 15:46 Kohler & Obleitner 135 Regional patterns of meteorological variables in the Kongsvegen area, Svalbard
- 15:48 Rolstad & Oerlemans 031 Turbulent exchange coefficients over ice calculated from automatic weather station data at sites in Iceland, Switzerland, and West Greenland
- 15:50 Braun and others 003 Supporting glacier mass balance modelling by EO-based snow facies maps
- a case study from Engabreen, Northern Norway
- 15:52 Raper and others 025 Anomalous elevation change on a large Arctic ice cap
- 15:54 Mayer & Schuler 110 Breaching of an ice-dam at Qorlortossup tasia, South Greenland
- 15:56 Andreassen and others 115 Glacier mass balance and front variation in Norway
- 15:58 Jansson & Linderholm 112 Constraints on latitudinal climate forcing of mass balances of Scandinavian glaciers from combined glacier and tree-ring studies.
- 16:00 Konya and others 054 Distributed melt-rate calculations based on the energy balance over Storglaciären, Sweden
- 16:02 van de Wal and others 069 Mass balance measurements along a transect in West-Greenland over the period 1990-2003.
- 16:04 Plougmann Hag and others 074 Runoff and climate trend at the ice-sheet margin in West Greenland
- 16:06 Saito & Abe-Ouchi 066 Dependence of simulation and sensitivity of Greenland ice sheet to numerical procedures for ice sheet dynamics.
- 16:08 Bougamont & Bamber 012 Testing a Greenland Ice Sheet surface mass balance model designed for coupling with a GCM
- 16:10 Seierstad & Johnsen 093 The timespan of the Bølling-Allerød period in the GRIP ice core
- 16:12 Steinhage and others 028 Regional and temporal variation of accumulation around NGRIP derived from ground based ice-penetrating radar

16:14	Miyamoto and others	071	Ice fabrics evolution processes under various deformation conditions revealed by X-ray crystallographic analyses
16:16	Karlof and others	075	Finding significant peaks in ice core records
16:18	Isaksson and others	073	The methanesulphonic acid (MSA) record in a Svalbard ice core
16:20	Kekonen and others	021	Marine and terrestrial cations in the Lomonosovfonna ice core, Svalbard
16:22	Martma and others	122	Spatial distribution and the temporal variability of $\delta^{18}\text{O}$ over central Spitsbergen, as studied from shallow ice cores, snow pits and coastal station records.
16:24	Holmlund & Pettersson	120	An analysis of mass changes of Storglaciären over the last 58 years
16:26	Fritzsche and others	150	Late Holocene ice core record from Akademii Nauk ice cap, Severnaya Zemlya, Russian Arctic
16:28	Kreutz and others	130	Meteorological controls on summer fresh snow isotope values, Eclipse Icefield, St. Elias Mountains
16:30	Rikiishi and others	002	The role of atmospheric circulation in the growth of sea ice fields in marginal seas around the Arctic Ocean
16:32	Rikiishi & Takatsuji	004	Interannual variation in the sea ice extent in the Sea of Okhotsk with special reference to its negative correlation with the sea ice extent in the Bering Sea

16:34

POSTERS

19:30

BANQUET

FRIDAY, 27 AUGUST 2004

Session 13: Mass balance of Arctic glaciers - Scandinavia

08:50	Holmlund & Jansson	119	Ice coring on a polythermal glacier in Northern Sweden
09:10	Schuler and others	042	Distributed mass balance and climate sensitivity modelling of Engabreen, Norway
09:30	Rasmussen & Conway	006	Influence of upper-air conditions on glaciers in Scandinavia
09:50	Lippert and others	103	Mass balance measuring and modelling on three glaciers in Northern Iceland

10:10

Refreshments

Session 14: Mass balance of Arctic glaciers – North America

10:40	Koerner	052	Mass Balance of glaciers in the Queen Elizabeth Islands, Nunavut Canada
11:00	Braun and others	131	Mass balance changes in the Canadian high arctic: ward hunt ice shelf and Hazen plateau ice caps
11:20	Cawkwell and others	096	Environmental drivers of glaciological change on the Manson Icefield, Ellesmere Island, Nunavut, Canada
11:40	Nolan and others	076	Volume change of McCall Glacier, Arctic Alaska, from 1956 to 2003

12:00

Lunch

Session 15: Arctic ice cores - I

14:00	Molnia and others	153	Alaska- A review and analysis of the 14 glacierized regions
14:20	Dahl-Jensen	082	Climate Variations deduced from temperature measurements in deep Boreholes on the Greenland and Antarctic Ice Sheets.
14:40	Greve	011	Relation of measured basal temperatures and the spatial distribution of the geothermal heat flux for the Greenland ice sheet
15:00	Grinsted and others	121	An 800 year melt proxy record from Lomonosovfonna, Svalbard.
15:20	Baker and others	005	Characterization of Ice Cores using Scanning Electron Microscopy

15:40

Refreshments

Session 16: Arctic ice cores - II

16:10	Isaksson and others	072	Using two ice core delta-O-18 records from Svalbard to illustrate climate and sea ice variability over the last 400 years
16:30	Moore & Kekonen	143	Interpreting the sulphate record of the Lomonosovfonna ice core, Svalbard: source inventories and post depositional processes
17:10	Segawa and others	070	Ice-core dating with snow algae and pollens in McCall Glacier, Brooks Range, Alaska.
17:30			Closing



NOTES

NOTES

NOTES

DAILY PROGRAMME PLAN

Day	Morning	Afternoon	Evening
SUNDAY 22 August			18:00-21:00 registration 20:00–22:00 <i>Icebreaker</i>
MONDAY 23 August	08:00–Registration 08:30–Welcome 09:50–Dynamics of Arctic tidewater glaciers 11:00– Arctic glacier dynamics	14:00– Arctic glacier dynamics 16:10 Greenland ice dynamics	20:00 Meeting for members of IGS Council
TUESDAY 24 August	08:30 Greenland mass balance: observations	14:00 Greenland mass balance - modeling 16:00– Poster Session 1. Short presentations	
WEDNESDAY 25 August	08:30 – 10:30 Remote sensing of Arctic glaciers and ice caps	11:00 – 19:00 EXCURSION	
THURSDAY 26 August	08:30 – Arctic glacier mass balance: modeling 10:40– Arctic glacier mass balance: Svalbard	14:00– Arctic glacier mass balance: Svalbard 16:00– Poster Session 2. Short presentations	19:30 BANQUET
FRIDAY 27 August	08:50– Mass balance of Arctic glaciers - Scandinavia 10:40– Mass balance of Arctic glaciers – North America	14:00– Arctic ice cores 17:30–Closing	

Lunch is served just after 12:00 and dinner at 19:00