

2009 IASC-NAG Meeting

Kananaskis Country, Alberta, Canada: 16-19 February 2009

Monday 16 February

9.00-12.00: Volume and Mass Changes

(Chair – Martin Sharp)

9.00: Anthony Arendt: Validation of Greenland Ice Sheet mass changes from high resolution GRACE mascon solutions

9.20: Tony Schenk: A novel approach for change detection from ICESat satellite laser altimetry – spatial and temporal pattern of ice sheet surface elevation change in NW Greenland 2003-2008

9.40: Andreas Ahlstrøm: Programme for Monitoring the Greenland Ice Sheet (PROMICE)

10.00: Ginny Catania: Elevation change over the Canadian Arctic ice caps using ICESat data

10.20-10.40: Coffee

Chair: Carleen Reijmer

10.40: Jon-Ove Hagen: Four years of surface mass balance measurements on Austfonna Ice Cap, Svalbard

11.00: Geir Moholdt: Repeat track ICESat altimetry over Austfonna and Devon ice caps

11.20: Chris Nuth: Climatic and dynamic influences on an altimetric mass balance estimate for Svalbard

11.40: Nick Barrand: 40 Years of Glacier Volume Changes on Svalbard from Airborne Remote Sensing

12.00-13.50: Lunch

Chair – Jon-Ove Hagen

13.50: Norah Foy: Changes in Surface Elevation of the Kaskawulsh Glacier, Yukon Territory

14.10: Laurence Gray: Radar results from the Devon Island ice cap

14.30: Regine Hock: Energy balance studies on Vestfonna, Svalbard

14.50: Alex Gardner: Parameterization of Shortwave Absorption and Reflection in Snow and Ice

15.10-15.40: Coffee

15.40-17.00: Snow and Firn

Chair – Jason Box

15.40: Tyler Sylvestre: Spatial Variability of Snow Accumulation Patterns across the Belcher Glacier, Devon Island, Nunavut, Canada

16:00: Gabriel Wolken: Inter-annual variability in snow/ice facies distributions on Arctic land ice

16.20: Krzysztof Migala: Extreme pollution events as markers in snow cover stratification

16.40: Martin Sharp: Chemistry of a new Deep Ice Core from Prince of Wales Icefield Ellesmere Island

Tuesday 17 February

08.40-12.00: Ice Dynamics

Chair: Regine Hock

08.40: Bea Csatho: Long-term record of ice surface and velocity changes from historical photographs and satellite imagery: Investigating the dynamics of Jakobshavn Glacier since the 1960s

09.00: Peter Nienow: Hydrological forcing of ice motion at the margin of the Greenland Ice Sheet

09.20: Gordon Hamilton: Warm water intrusions in Sermilik Fjord, southeast Greenland, as a cause of recent changes in Helheim Glacier

09.40: Jason Box: Terrestrial photogrammetry of Greenland glacier discharge variability: comparison with surface climate anomalies

10.00: Hester Jiskoot: 2001-2007 East Greenland valley glacier surge and its implications for surge mechanisms

10: 20-10.40 Coffee

Chair: Ginny Catania

10.40: Thorben Dunse: Modelling flow dynamics and form of the Austfonna ice cap, Svalbard

11.00: D.Puczko: Fluctuations of flow velocity of Hansbreen tidewater glacier in S Spitsbergen

11.20: Sam Pimentel: Coupling Glacial Hydrology into a High-order Numerical Ice Model

11.40: Charlotte Delcourt: Climate sensitivity of McCall Glacier, Alaska, based on radio-echo sounding and numerical flow modelling

12.00: Lunch

14.00 – 17.00: Glaciodyn Discussions – off site

19.30: Andreas Ahlstrøm and Martin Sharp: Information Session on SWIPA (Arctic Council Report on Snow, Water, Ice and Permafrost in the Arctic) and the new IASC Structure and Scientific Standing Committee on the Cryosphere System.

Wednesday 18 February

09.00-10.20: Radar and More

Chair: Bea Csatho

09.00: Francisco Navarro: On the hydrothermal state of Ariebreen, Spitsbergen

09.20: Mariusz Grabcic: Elements of hydrothermal structure of glaciers from GPR soundings in Spitsbergen, Svalbard

09.40: Matt Nolan: 5 months on McCall Glacier in IPY4

10.00: Ruth Mottram: Modelling Crevasse Depth: A study at Breiðamerkurjökull

10.20 – 12.00: Coffee and Poster Session

14.00-17.00: Tidewater Glaciers and Iceberg Calving

Chair: Andreas Ahlstrøm

14.00: Julian Dowdeswell: Iceberg production and mass loss from Eurasian Arctic ice caps.

14.20: Gabriel Wolken: Inventory and near-terminus velocity estimates of tidewater glaciers in Arctic Canada

14.40: Anne Chapuis: Investigating the calving rate variations of Kronebreen, Svalbard, using terrestrial photogrammetry and direct observations

15.00: Michelle Koppes: Submarine melting at the termini of subpolar outlet glaciers, western Greenland

15.20-15.40: Coffee

Chair: Julian Dowdeswell

15.40: Brad Danielson: Glacial-Marine Interactions at the Belcher Glacier Terminus

16.00: Carleen Reijmer: Continuous flow observations on Svalbard glaciers

16.20 Anne Chapuis and Cecilie Rolstad: Ground based interferometric radar for velocity and calving rate measurements of the tidewater glacier Kronebreen, Svalbard, from August 2007 and 2008.

16.40: Tad Pfeffer: TBA

19.30: IASC-NAG Business Meeting