

IGS Nordic Branch Meeting 2020

All times are in CET.

Wednesday 11th November

- 11:00 – 11:15 Welcome and introduction
- 11:15 – 11:30 Meet and Greet
- 11:30 – 12:15 **Open Topics in Glaciology**, conveners: TBA
- 11:30 – 11:45 **Thorstein Thorsteinsson**: *A sudden jökulhlaup from the newly formed marginal lake at Langjökull, W-Iceland*
- 11:45 – 12:00 **MC Sanjana**: *Ocean Sound Field Components in Kongsfjorden, Svalbard and its distribution*
- 12:00 – 12:15 **Suchithra Sundaram**: *Spring Arctic sea ice variability and its impact on Indian summer monsoon*
- 12:30 – 13:15 Lunch
- 13:15 – 14:15 **Subglacial 1**, conveners: TBA
- 13:15 – 13:30 **Rebecca Schlegel**: *Rapid erosion of a subglacial landform under the Rutford Ice Stream, West Antarctica*
- 13:30 – 13:45 **Eyjolfur Magnússon**: *The bedrock and tephra layer topography within the glacier filled Katla caldera, Iceland, deduced from dense RES-survey*
- 13:45 – 14:00 **Andreas Alexander**: *Subglacial permafrost dynamics and erosion inside subglacial channels driven by surface events in Svalbard*
- 14:00 – 14:15 **Nathan Maier**: *Constraining the relationship between velocity and basal traction over the grounded regions of Greenland*
- 14:15 – 14:45 Coffee break
- 14:45 – 16:00 **Poster session**, conveners: TBA
- 14:45 – 15:15 3 minute poster presentations in the following order: Shridhar Jawak, Ward van Pelt, Kamilla H. Sjursen, Anne M. Solgaard, Brian Whalley, Mai Winstrup, Øyvind Winton, Levan Tielidze.
- 15:15 – 16:00 Poster room 1:
Levan Tielidze: *Reconstruction of Late Quaternary glaciation in the Ahuriri River valley, New Zealand, based on geomorphological mapping and cosmogenic ¹⁰Be data*
Brian Whalley: *Glaciers in the Critical zone: A proposal for an earth science observatory, Lyngen North Norway*

- 15:15 – 16:00 Poster room 2:
Anne M. Solgaard: *The Promice Ice Velocity Product*
Shridhar Jawak: *SIOS's practical activities to fill gaps in scientific observations and bringing the scientific community together during the global pandemic of COVID-2019*
- 15:15 – 16:00 Poster room 3:
Ward van Pelt: *Accelerating projected mass loss of Svalbard glaciers from a multi-model ensemble*
Mai Winstrup: *Summer DEM for the marginal areas of the Greenland ice sheet and elevation along the PROMICE flux gates*
- 15:15 – 16:00 Poster room 4:
Kamilla H. Sjursen: *Modelling the climatic mass balance of three glaciers in Norway along a continentality gradient, 1961-2019*
Øyvind Winton: *Basal Conditions of Hagen Bræ*
- 16:00 – 17:00 **IGS EGG Networking event for early-career scientists**, conveners: Rebecca Schlegel and Nicolaj Hansen

Thursday 12th November

- 11:00 – 11:15 Welcome, Meet and Greet
- 11:15 – 12:30 **Mass budget and climate 1**, conveners: TBA
- 11:15 – 11:30 **Sebastian Simonsen:** *Greenland ice sheet mass balance 1992-2020 from radar altimetry*
- 11:30 – 11:45 **Ralf Greve:** *Long-term future projections for the Greenland ice sheet with the model SICOPOLIS*
- 11:45 – 12:00 **Joaquin M.C. Belart:** *Seasonal-to-decadal geodetic mass balance of Hofsjökull, central Iceland, 1980–2020*
- 12:00 – 12:15 **Jack Kohler:** *Total Svalbard glacier mass balance 2013-2017 from ArcticDEM data*
- 12:15 – 12:30 **Hrafnhildur Hannesdottir:** *A national glacier inventory and variations in glacier extent in Iceland from the Little Ice Age maximum to 2019*
- 12:30 – 13:15 Lunch
- 13:15 – 14:15 **Mass budget and climate 2**, conveners: TBA
- 13:15 - 13:30 **Jason Box:** *Arctic Monitoring and Assessment Program (AMAP) Observational records indicating Arctic physical climate change*
- 13:30 – 13:45 **Joshua Leigh:** *Glacier retreat in northern Norway since the Little Ice Age maximum*
- 13:45 – 14:00 **Ruth Mottram:** *Applications of the new ultra high resolution Copernicus Arctic Reanalysis to Greenland ice sheet SMB*
- 14:00 – 14:15 **Nicolaj Hansen:** *Modeling the Antarctic firn*
- 14:15 – 14:45 Coffee break

- 14:45 – 16:00 **Snow and firn**, conveners: TBA
- 14:45 – 15:00 **Sergey Marchenko**: *Water content of firn at Lomonosovfonna, Svalbard, derived from subsurface temperature measurements*
- 15:00 – 15:15 **Tim van den Akker**: *Modelling a perennial firn aquifer on the Lomonosovfonna ice field*
- 15:15 – 15:30 **Jie Zhang**: *GEE4Snow: a support for better understanding of snow dynamics from space*
- 15:30 – 15:45 **Jan Kavan**: *Seasonal dynamics of snow ablation on selected glaciers in central Spitsbergen derived from Sentinel-2 satellite images*
- 15:45 – 16:00 **Hamish Pritchard**: *How much water is in that snow? Solving the very old problem of SWE.*
- 16:00 – 17:30 **IGS EGG Career Panel**, conveners: Rebecca Schlegel and Nicolaj Hansen.

Friday 13th November

- 11:00 – 11:15 Welcome, Meet and Greet
- 11:15 – 12:30 **Ice dynamics**, conveners: TBA
- 11:15 – 11:30 **Karita Kajanto**: *Holocene minimum extent of Jakobshavn Isbræ shows an approaching tipping point*
- 11:30 – 11:45 **Adrian Dye**: *Cold Ice in a Warm Bath; What's driving an Arctic Glacier's retreat from a proglacial lake?*
- 11:45 – 12:00 **Jonas Kvist Andersen**: *Improved Ice Velocity Measurements with Sentinel-1 TOPS Interferometry*
- 12:00 – 12:15 **Vikram Goel**: *Characteristics of ice rises in Dronning Maud Land, Antarctica*
- 12:15 – 12:30 **Christine Hvidberg**: *Surface velocity by GPS in the Northeast Greenland Ice Stream (NEGIS): an assessment of interior ice velocity derived from satellite data.*
- 12:30 – 13:15 Lunch
- 13:15 – 14:15 **Subglacial 2**, conveners: TBA
- 13:15 – 13:30 **Maarten Krabbendam**: *Rock fracturing by subglacial hydraulic jacking in basement rocks, eastern Sweden: the role of beam failure*
- 13:30 – 13:45 **Adrian Hall**: *Glacial ripping in sedimentary rocks: insights from Cambrian quartzites at Loch Eriboll, NW Scotland*
- 13:45 – 14:00 **Andreas Alexander**: *Topology and pressure distribution reconstruction of an englacial channel*
- 14:00 – 14:15 **Greta Wells**: *Reconstruction of Early Holocene jökulhlaups along the Hvítá River and Gullfoss waterfall, Iceland, during Icelandic Ice Sheet retreat*

14:15 – 14:45

Coffee break

14:45 – 15:30

Ice ocean interactions, conveners: TBA

14:45 – 15:00 **Eef van Dongen**: *Thinning leads to calving-style changes at Bowdoin Glacier, Greenland*

15:00 – 15:15 **Ashley Morris**: *High resolution ice shelf freeboard, thickness, draught, and basal melt in Dronning Maud Land from Reference Elevation Model of Antarctica (REMA) strips*

15:15 – 15:30 **Thomas Zwinger**: *COLD - investigating ocean-ice interactions around the Antarctic Ice Sheet*

15:30 – 16:00

Ymir award, concluding remarks and group photo