



## FRISP - 26<sup>th</sup> International Forum for Research into Ice Shelf Processes

Utö, Sweden, June 12-14 2012

**Tuesday June 12 / Morning session: Oral presentations on 'Antarctic and Greenland marginal seas', 'Forthcoming expeditions' and 'Marine geological evidence of ice shelf changes'**

09.00-09.15 Welcome by the organizers

09.15-09.30 **Hellmer, Hartmut:** The 21<sup>st</sup>-century Weddell Sea hosing experiment

09.30-09.45 **Heywood, Karen:** Observations of processes on the Antarctic continental shelf and slope, and future plans in Pine Island Bay

09.45-10.00 **Østerhus, Svein:** Long term variations of the Ice Shelf Water in the Southern Weddell Sea

10.00-10:15 **Straneo, Fiamma:** Circulation and Impact of Arctic and Atlantic Waters on Greenland's Glaciers

**10.15-10.45 Break**

10.45-11.00 **Schröder, Michael:** Forthcoming expeditions

11.00-11.15 **Abrahamsen, Povel:** The iSTAR project – progress and future plans

11.15-11.30 **Jakobsson, Martin:** Huge ice shelves in the Arctic Ocean: a recurrent feature during glacial periods?

11.30-11.45 **Graham, Alastair:** First sea-floor observations beneath Pine Island Ice Shelf and implications for its history

11.45-12.00 **Smith, James:** First sediment cores recovered from beneath Larsen C and George VI Ice Shelves

**12.00-13.30 Lunch**

**Tuesday June 12 / Afternoon session: Oral presentations on 'Ice shelves and floating glacier tongues - observation and modeling' and 'Ice shelves and floating glacier tongues – ocean coupling'; Poster session I (all posters)**

13.30-13.45 **Holland, David:** Near-continuous monitoring of Antarctic ice shelf and sub-ice shelf ocean temperatures

13.45-14.00 **Makinson, Keith:** Modelling the seasonal ocean circulation and water mass distribution beneath Filchner-Ronne Ice Shelf

- 14.00-14.15 **Smedsrup, Lars:** Fimbul Ice Shelf : New Observations  
14.15-14.30 **Humbert, Angelika:** Calving at Pine Island Glacier

**14.30-16.00            Posters and Coffee**

- 16.00-16.15 **Nilsson, Johan:** Atlantic Water circulation and shelf ice in the Arctic Ocean  
16.15-16.30 **Hatterman, Tore:** Ocean circulation and basal melting below the Fimbul Ice Shelf, Antarctica  
16.30-16.45 **Warner, Roland:** Distributed temperature sensing in the Amery Ice shelf and the sub ice shelf ocean.  
16.45-17.00 **Veneables, Emily:** Oceanic observations at the ice base: Microstructure and thermohaline staircases  
17.00-17.15 **Candy, Adam:** Modelling of the Sub-Ice-Shelf Ocean Cavity and its Interaction with the Ice Sheet

**Wednesday June 13 / Morning session: Oral presentations on 'Ice shelves and floating glacier tongues - observation and modeling' and 'Ice shelves and floating glacier tongues – ocean coupling'**

- 09.00-09.15 **Sugiyama, Shin:** Hot water drilling and subglacial measurements at the floating tongue of Langhovde Glacier, East Antarctica  
09.15-09.30 **Herraiz-Borreguero, Laura:** Sub-Amery Ice Shelf circulation: new results from borehole observations  
09.30-09.45 **Matsuoka, Kenichi:** ICE RISES: a new project to investigate evolution and roles of grounded ice in the ice shelf  
09.45-10.00 **Wesche, Christine:** Classification of calving fronts around Antarctica  
10.00-10.15 **Greenbaum, Jamin:** Seafloor shapes of the floating portion of Totten Glacier and Moscow University Ice Shelf, East Antarctica

**10.15-10.45            Break**

- 10.45-11.00 **Jenkins, Adrian:** A simple parameterisation of melting near the grounding lines of ice shelves and tidewater glaciers  
11.00-11.15 **Johnson, Helen:** Where the ice meets the ocean: Ocean circulation and properties in Petermann Fjord, Greenland  
11.15-11.30 **Nicholls, Keith:** Ocean conditions beneath Larsen C Ice Shelf  
11.30-11.45 **St Laurent, Pierre:** Comparing the Oceanic Heat Transport to Antarctic Ice Shelves for Two Generic Continental Shelves  
11.45-12.00 **Kimura, Satoshi:** Multi-scale Modelling of the Ocean Beneath Ice Shelves

**12.00-13.15            Lunch**

**Wednesday June 13 / Afternoon session: Oral presentations on 'Antarctic and Greenland marginal seas'; Poster session II (all posters); Excursion**

13.15-13.30 **Ha, Ho Kyung:** Intrusion of Circumpolar Deep Water over the continental shelf in the central Amundsen Sea

13.30-13.45 **Assmann, Karen:** Variability of shelf inflow characteristics – observations and modelling in the Amundsen Sea

13.45-14.00 **Nakayama, Yoshihiro:** Spreading of the melt water plume from Pine Island Glacier

14.00-14.15 **Wåhlin, Anna:** Circulation of warm deep water on the Amundsen Shelf: Variability and forcing mechanisms

14.15-15.30 **Posters and Coffee**

16.00-19.00 **Excursion / optional: informal splinter meetings**

20.00- **Conference Dinner**

**Thursday June 14 / Morning session: Oral presentations on 'Antarctic and Greenland marginal seas' and 'Ice shelves and floating glacier tongues - observation and modeling'**

09.00-09.15 **Lee, Jae Hak:** Two types of wind effect on the Circumpolar Deep Water inflow into the Amundsen Sea shelf

09.15-09.30 **Petty, Alek:** Impact of atmospheric forcing on Antarctic continental shelf water masses

09.30-09.45 **Holland, Paul:** Wind-driven trends in Antarctic sea ice motion

09.45-10.00 **Jullion, Loic:** Recent decadal-scale freshening of the Antarctic Bottom Water exported from the Weddell Sea

10.00-10:15 **Heuzé, Céline:** A comparison of global coupled climate models around Antarctica

**10.15-10.45 Break**

10.45-11.00 **Zhou, Qin:** How the summer surface water is downwelling and spreading beneath the Fimbul Ice Shelf, Antarctica

11.00-11.15 **Hindmarsh, Richard:** An Observationally-Validated Theory of Viscous Flow Dynamics at the Ice-Shelf Calving-Front

11.15-11.30 **Le Broque, Anne:** Sub-ice-shelf channels indicative of a channelised subglacial hydrological system in Antarctica

11.30-11.45 **Millgate, Thomas:** The Effect of Basal Channels on Ocean Flow and Ice-Ocean Interactions

11.45-12.00 **Wrap-up by the organizers**

12.00 **Lunch and Departure**