

7thFAMOS School and Meeting

AGENDA

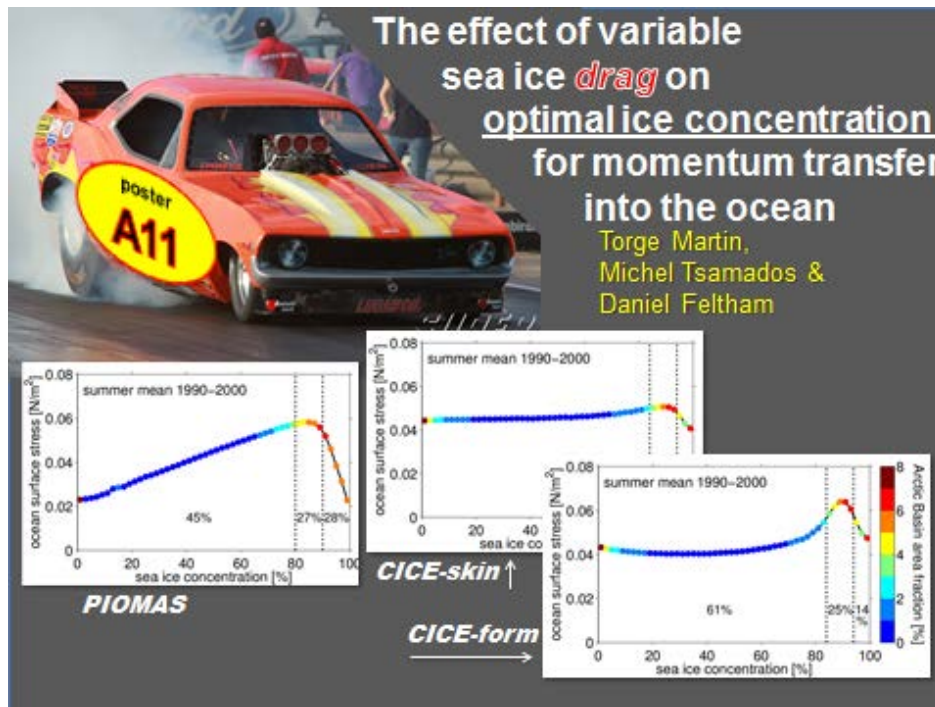
Important information for meeting participants

NOTE # 1: Oral presentation time = 12 minutes + 3 minutes for questions (AGU style)

NOTE #2: All Posters will be displayed all days. Maximum poster size: width - 95 cm (37 inches), length/height - 150 cm (59 inches)

NOTE #3 1- slide - 1 - minute presentation slide example is shown below.

We ask that you prepare an introduction to your poster on ONE SLIDE with NO ANIMATION. We will have one-minute summary presentations by each poster presenter in the afternoon before the poster sessions. This is intended to give a sneak peek of your work and main results, and NOT to explain everything on your poster!! Just give them a hint or the main result, i.e. do not over-crowd your slide with too much material. Please see the example below.



Poster session example:

One stand (4 sections) accommodates 8 posters: 4 per each side





Tuesday, October 23, 2018

2018 School for young scientists

Edvard Grieg Hotel Sandslåsen 50, 5254 Bergen, Norway

06:00 - 09:00 Breakfast

09:00 - 09:30 Introductions from Mike Steele and students/postdocs

09:30 - 10:15 Petteri Uotila: Global ocean reanalysis for the Arctic

10:15 - 11:00 Pierre Rampal: Next-generation sea ice modeling

11:00 - 11:30 Coffee break

11:30 - 12:15 Pedro Duarte: Ice algae and models

12:15 - 14:00 Lunch

14:00 - 14:45 Mark Payne: What are climate services?

14:45 - 15:15 Ingrid Onarheim: Climate science in the private sector

15:15 - 15:30 Plenary discussion

15:30 - 16:00 Coffee break

16:00 - 16:45 Cian Woods: Atmospheric rivers in the Arctic

16:45 - 17:30 Peter Worcester: Ocean acoustics for Arctic research

18:00 - 19:30 Dinner

19:30 Fun in Bergen town (to be determined)



Wednesday, October 24, 2018

Edvard Grieg Hotel Sandslåsen 50, 5254 Bergen, Norway

6:00 – 8:30 – time to put up your posters

07:30 – 08:30 Breakfast

08:30 – 09:00

- **Opening welcome from Dr. Lars Henrik Smedsrud** on behalf of the Bjerknes Center, the University of Bergen and the Bergen city
- **Introduction and instructions for working groups:** Andrey Proshutinsky and Mike Steele

SESSION 1: Sea ice observations, modeling and predictions (Conveners: Julienne Stroeve and Amelie Bouchat)

09:00 – 09:15 David Hebert: High-resolution sea ice modeling during Year of Polar Prediction

09:15 – 09:30 Francois Roy: Impact of small-scale coupled atmosphere-ice-ocean interactions: Results from the Canadian high-resolution forecasting system for YOPP

09:30 – 09:45 Polona Itkin: Sea ice deformation: datasets across different temporal and spatial scales and its importance for the sea ice mass balance

09:45 – 10:00 Nils Hutter: Comparing deformation features of sea ice models contributing to the FAMOS Sea-Ice Rheology Experiment

10:00 – 10:30 Coffee break

10:30 – 10:45 Veronique Dansereau: A new rheological framework for sea ice modelling

10:45 – 11:00 David Schroeder: Using CryoSat-2 sea ice thickness to improve sea ice evolution in the ocean – sea ice model NEMO-CICE

11:00 – 11:15 Longjiang Mu: Arctic-wide sea-ice thickness estimates from combining satellite remote sensing data and a dynamic ice-ocean model with data assimilation during the CryoSat-2 period

11:15 – 11:30 Jean-Francois Lemieux: The impact of tides on simulated landfast ice in a pan-Arctic ice-ocean model

11:30 – 11:45 Wieslaw Maslowski: Sensitivity of the arctic sea ice to and its impact on the regional energy budget

11:45 – 12:00 Julienne Stroeve: Modulation of Sea Ice Melt Onset and Retreat in the Laptev Sea by the Timing of Snow Retreat in the West Siberian Plain

12:00 – 13:00 Lunch

SESSION 2: Intercomparison projects (Conveners: M. Steele and Y. Aksenov)

13:00 – 13:15 John Marshall: The Arctic Climate Response Function Project

13:15 – 13:30 Eiji Watanabe: Multi-model intercomparison of ice algal productivity on the Arctic sub-region scales

13:30 – 13:45 Petteri Uotila: Assessment of ten ocean reanalyses in the Arctic Ocean

13:45 – 14:00 Morven Muilwijk: An evaluation of the relationship between anomalous wind forcing, ocean heat transport and sea ice in a suite of Arctic model simulations

14:00 – 14:15 Jim Carton: Variability of Arctic Ocean stratification 1980-2016 in three recent ocean reanalyzes

14:15 – 14:30 Sam Cornish: Arctic Freshwater redistribution and export in coupled climate models: responses to changes in atmospheric circulation

14:30– 15:00 Coffee break

15:00 – 15:45 Working group meetings (#1: focus on sea ice processes and intercomparison projects)

15:45 – 17:00 One-slide 1-minute poster presentations

17:00 – 19:00 Poster Session

19:00 – 20:30 Dinner



Thursday, October 25, 2018

Edvard Grieg Hotel Sandslåsen 50, 5254 Bergen, Norway

07:30 – 08:30 Breakfast

SESSION 3: Atlantic water

(Conveners: Lars Smedsrud and Agnieszka Beszczynska-Moeller)

08:30 – 08:45 Lars Smedsrud: Atlantic Water heat transport variability in the 20th century Arctic Ocean

08:45 – 09:00 Anthony Bosse: Atlantic Water transformation along its poleward pathway across the Nordic Seas

09:00 – 09:15 Agnieszka Beszczynska-Moeller: Modifications of Atlantic inflow along its northern passage towards the Arctic Ocean on seasonal to inter-annual time scales

09:15 – 09:30 Sebastian Mense: Atlantic Water pathways around Svalbard mapped using vessel-mounted current profilers

09:30 – 09:45 Andrew Hamilton: Propagation of subsurface Atlantic Water into the Canadian Arctic and its potential to trigger retreat of outlet glaciers

09:45 – 10:15 Coffee break

SESSION 4: Eddies, tides and mixing: observations, description and modeling

(Conveners: Tom Rippeth and Nicole Shibley)

10:15 - 10:30 Igor Kozlov: Satellite observations of eddies in the Chukchi and Beaufort Seas

10:30 – 10:45 Camille Lique: Can we detect subsurface eddies in the ice-covered Arctic from space?

10:45 - 11:00 Tom Rippeth: The contribution of the tide to mixing at intermediate depths in the Arctic Ocean

11:00 – 11:15 Nicole Shibley: The formation of double-diffusive Layers in the weakly turbulent Arctic Ocean

11:15 – 11:30 Melanie Chanona: Internal wave-driven mixing variability in the Beaufort Sea and straits of the Canadian Arctic Archipelago from multi-year mooring data

11:30 – 11:45 Ilker Fer: Structure, mixing and variability of the Atlantic Water boundary current around Svalbard

11:45 – 13:00 Lunch

SESSION 5: Stratification and heat release (Conveners: Camille Lique and Maria Luneva)

13:00 – 13:15 Sigrid Lind: Importance of stratification in modelling shift towards a new Arctic

13:15 – 13:30 Maria Luneva: Evaluation of cascading water formation from NEMO-shelf model simulations.

13:30 – 13:45 Anais Bretone: Arctic stratification: modeling, stability, and evolution during abrupt changes in sea ice

13:45 – 14:00 15 Erica Rosenblum: Factors controlling seasonal mixed-layer freshening in the Canada Basin during 1975, 2006, and 2007

14:00 – 14:15 Jim Thomson: Overview of Arctic Sea State and Boundary Layer Physics Program

14:15 – 14:45 Coffee break

SESSION 6: Global and regional modeling (Conveners: Wieslaw Maslowski and Matthew Hetch)

14:45 – 15:00 Matthew Hecht: A Climate System Model Targeted for the Study of High Latitude Processes

15:00 – 15:15 Claudia Hinrichs: Simulating Arctic climate change and the impact on lower latitudes in high resolution (4.5 km in the Arctic) with AWI-CM

15:15 – 15:30 Justin Wettstein: Seasonal and Spatial Variability in the Fully-Coupled Ocean-Atmosphere Surface Energy Budget: Climatology and Projections

15:30 – 15:45 Helen Langehaug: Assessing Arctic Ocean heat content in global climate models

15:45 – 16:00 Vera Fofonova: Representation of the shelf areas in the global ocean model: key study, questions and perspectives

16:00 – 17:00 Working groups meetings (#2 focus on Atlantic water, mixing and modeling)

17:00 Transportation to Håkonshallen in Bergen for reception (3 buses)

18:00 – 19:00 Reception at Håkonshallen

19:00 Free time in Bergen on your own or return to hotel for dinner: this is up to you. Note that after reception no busses will be provided to reach hotel.



Friday, October 26, 2018

Edvard Grieg Hotel Sandslåsen 50, 5254 Bergen, Norway

07:30 – 8:30 Breakfast

08:30 – 08:45 Madison Smith: Event-driven release of upper ocean heat in the autumn Canadian Arctic Ocean

SESSION 7: New and developing coordinated initiatives (Conveners: Andrey Proshutinsky and Mike Steele)

08:45 – 09:05 Arild Sundfjord: The new CliC/CLIVAR Northern Oceans Regional Panel; scientific motivation, objectives and plans

09:05 – 09:25 Peter Worcester: The 2016–2017 deep-water Canada Basin Acoustic Propagation Experiment (CANAPE)

09:25– 09:45 Hanne Sagen and Stein Sandven: Integrated Arctic Observing System (INTAROS) and the way towards a sustained integrated Arctic Observing System

09:45 – 10:50 Final working group meetings (#3 focus on results of 2016-2018 project work and publications and plans)

10:50 – 11:20 Coffee

11:20 – 12:30 Working group reports and plenary discussions

12:30 Meeting adjourns

12:30 Lunch