

# Agenda

**Monday, January 14th 2019**

08:00 – 09:00      **Registration**

**Welcome and Introductory session (Auditorium ‘Brainstorm’)**      (chair: Helge Goessling)

09:00-09:10	<i>Welcome from FMI, IASC and PPP</i>	Juhani Damski (FMI Director General) Thomas Spengler Thomas Jung Timo Vihma
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09:10-09:25	<a href="#"><i>Bridging Modelling and Observational Efforts during the Year of Polar Prediction</i></a>	Thomas Jung (Alfred Wegener Institute) ( <i>presenting author</i> : Helge Goessling, Alfred Wegener Institute)
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**Invited Presentations I (Auditorium ‘Brainstorm’)**      (chair: Manisha Ganeshan)

9:25-09:50	<a href="#"><i>Atmosphere-Ocean Single-Column Model (AOSCM) – a tool to help improve coupled models in the Arctic</i></a>	Gunilla Svensson (Stockholm University)
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09:50-10:15	<a href="#"><i>Predictability Characteristics of Arctic Cyclones</i></a>	James Doyle (Naval Research Laboratory)
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10:15-10:40	<a href="#"><i>Canadian Contributions to the Year of Polar Prediction: Deterministic and Ensemble Coupled Atmosphere-Ice-Ocean Forecasts</i></a>	Gregory Smith (Environment and Climate Change Canada)
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10:40-11:00      **Coffee Break**

**Invited Presentations II (Auditorium ‘Brainstorm’)**      (chair: Kirstin Werner)

11:00-11:25	<a href="#"><i>Large-scale Arctic sea ice modeling: Forging a community</i></a>	Elizabeth Hunke (Los Alamos National Laboratory)
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11:25-11:50	<a href="#"><i>Co-production and use engagement in Arctic metocean forecasting: Experiences from the SALIENSEAS project</i></a>	Machiel Lamers (Wageningen University and Research)
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11:50-12:15	<a href="#"><i>An overview of the Iceland Greenland Seas Project: Cold-Air Outbreaks and Air-Sea-Ice Fluxes</i></a>	Ian Renfrew (University of East Anglia)
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12:15-12:40	<i>On forecasting sea ice trajectories using the Lagrangian sea ice model neXtSIM (cancelled)</i>	Pierre Rampal (Nansen Environmental and Remote Sensing Center)
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12:40-13:40      **Lunch**

**Introduction to Breakout Groups (Auditorium ‘Brainstorm’)**      (chair: Thomas Jung)

13:40-14:05      *Breakout Groups: Groups will be assigned at registration*

## Session A (Auditorium 'Brainstorm'): Coupled Atmosphere-Ocean-Sea Ice

(chairs: Evelien Dekker/Claudia Hinrichs)

14:05-14:20	<a href="#"><i>Predicting ocean waves and sea ice and the Polar Oceans</i></a>	Stefanie Rynders (National Oceanography Centre)
14:20-14:35	<a href="#"><i>Is the Arctic Losing Climatic Resilience?</i></a>	James Overland (NOAA Pacific Marine Environmental Laboratory) ( <i>presenting author</i> : Kevin Wood, Joint Institute for the Study of the Atmosphere and Ocean)
14:35-14:50	<a href="#"><i>The influence of ice fragmentation on the atmospheric boundary layer processes</i></a>	Marta Wenta (University of Gdansk)
14:50-15:05	<a href="#"><i>Results of hydrometeorological studies at Research station "Ice Base "Cape Baranova" during YOPP</i></a>	Alexander Makshtas (Arctic and Antarctic Research Institute)
15:05-15:20	<a href="#"><i>Coupling scales and components: When is an interactive sea ice component required for weather forecasting?</i></a>	Clemens Spensberger (University of Bergen & Bjerknes Centre for Climate Research)
15:20-15:35	<a href="#"><i>Next Iteration of the Arctic System Reanalysis</i></a>	David Bromwich ( <i>remotely</i> ; Byrd Polar & Climate Research Center)
15:35-16:00	<b>Coffee Break</b>	

## Session B (Auditorium 'Brainstorm'): User Engagement (chairs: Riina Haavisto/Machiel Lamers)

16:00-16:15	<a href="#"><i>Who are the end-users of improved polar environmental forecasting services?</i></a>	Marijn Anna Cornelia Hooghiem (Wageningen University and Research & SALIENSEAS)
16:15-16:30	<a href="#"><i>From detailed sea-ice services to end users</i></a>	Till Soya Rasmussen (Danish Meteorological Institute)
16:30-16:45	<a href="#"><i>Toward salient metocean services for the marine Arctic: exploring metservice perspectives on the user-producer interface</i></a>	Maaïke Knol (University of Tromsø) ( <i>presenting author</i> : Jelmer Jeuring, Umeå University)
16:45-17:00	<a href="#"><i>The contribution of the Icelandic Meteorological Office to YOPP</i></a>	Guðrún Nína Petersen (Icelandic Meteorological Office)
17:00-17:15	<a href="#"><i>INTAROS – A Project contributing to improving Arctic observing systems</i></a>	Stein Sandven (Nansen Environmental and Remote Sensing Center)
17:15-17:30	<b>General Discussion</b>	
17:30-19:00	<b>Posters I (Sessions A, B, E) &amp; Icebreaker</b>	

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Session C (Auditorium 'Brainstorm'): Forecasting & Data Assimilation

(chairs: Madlen Kimmritz/Yonghan Choi)

09:00-09:15	<a href="#"><i>Impact of assimilating AIRS cloud-cleared radiances on atmospheric dynamics and boundary layer height at high latitudes</i></a>	Erica McGrath-Spangler (Universities Space Research Association/GESTAR) ( <i>presenting author</i> : Manisha Ganeshan, Universities Space Research Association /GESTAR)
09:15-09:30	<a href="#"><i>On the warm bias of atmospheric reanalysis over sea-ice in Arctic winter</i></a>	Malte Müller (Norwegian Meteorological Institute)
09:30-09:45	<a href="#"><i>Dynamics of weather extremes during the YOPP Special Observations Periods</i></a>	Timo Vihma (Finnish Meteorological Institute)
09:45-10:00	<a href="#"><i>Impact of a multi-layer snow model in the ECMWF Integrated Forecasting System</i></a>	Gabriele Arduini (European Centre for Medium-Range Weather Forecasts)
10:00-10:15	<a href="#"><i>The Sea Ice Drift Forecast Experiment</i></a>	Helge Goessling (Alfred Wegener Institute)
10:15-10:30	<a href="#"><i>Predictability of extreme weather events in North</i></a>	Kent Moore (University of Toronto)
10:30-11:00	<b>Group Photo &amp; Coffee Break</b>	
<b>Session D (Auditorium 'Brainstorm'): Verification</b>		(chair: Barbara Casati/Jonathan Day)
11:00-11:15	<a href="#"><i>Verification of sea-ice prediction by using distance measures</i></a>	Barbara Casati (Environment and Climate Change Canada)
11:15-11:30	<a href="#"><i>Merged Observatory Data Files at the YOPP Super Sites for Special Observing Periods: Preliminary Verification Results</i></a>	Taneil Uttal (NOAA) ( <i>presenting author</i> : Leslie Hartten, University of Colorado/CIRES)
11:30-11:45	<a href="#"><i>A NWP model inter-comparison of surface weather parameters during the Year of Polar Prediction Special Observing Period 1</i></a>	Morten Køltzow (Norwegian Meteorological Institute)
11:45-12:00	<a href="#"><i>Assessing the value of the Arctic Observing System for Medium-Range NWP</i></a>	Jonathan Day (European Centre for Medium-Range Weather Forecasts)
12:00-12:15	<a href="#"><i>Evaluation of seasonal Arctic sea ice forecasts from the ECMWF SEAS5 system</i></a>	Cyril Palerme (Norwegian Meteorological Institute)
12:15-12:30	<a href="#"><i>What's in a Name? - Matching Observational Data with Model Output</i></a>	Siri Jodha Khalsa (University of Colorado)
12:30-13:30	<b>Lunch Break</b>	

PARALLEL SESSIONS (13:30–15:00)		
<b>Session E (Auditorium ‘Brainstorm’): Atmosphere</b>		(chairs: Manisha Ganeshan/Carolina Viceto)
13:30-13:45	<i>Atmosphere-Wave Coupling in a NWP System</i>	Erin Thomas (Norwegian Meteorological Institute)
13:45-14:00	<i>Profiling at Oliktok Point to Enhance YOPP Experiments (POPEYE)</i>	Gijs de Boer (University of Colorado)
14:00-14:15	<i>Experiences from Arctic forecasting during the Arctic Ocean 2016 expedition</i>	Michael Tjernström (Stockholm University)
14:15-14:30	<i>The De-Icing Comparison Experiment (D-ICE): A well-characterized verification data set of Arctic broadband downwelling longwave and shortwave radiative fluxes for YOPP</i>	Christopher Cox (CIRES/NOAA)
14:30-14:45	<i>Polar lows in the ECMWF versus Arome Arctic models</i>	Matilda Hallerstig (Norwegian Meteorological Institute/ECMWF)
14:45-15:00	<i>Boundary layer measurements at Cape Baranov (YOPP project CATS-BL)</i>	Günther Heinemann (University of Trier) ( <i>presenting author:</i> Alexander Makshtas, Arctic and Antarctic Research Institute)
<b>Session F (Aura): Sea Ice and Ocean</b>		(chairs: Francesca de Santi/François Massonnet)
13:30-13:45	<i>Nudging the Arctic Ocean to quantify sea ice feedbacks</i>	Evelien Dekker (Stockholm University)
13:45-14:00	<i>The Arctic Heat Open Science Experiment 2018: collaboration, initial results, and data availability</i>	Kevin Wood (Joint Institute for the Study of the Atmosphere and Ocean)
14:00-14:15	<i>Recent observations of sea ice thickness change in the Arctic</i>	Christian Haas (Alfred Wegener Institute)
14:15-14:30	<i>Towards an operational snow on sea ice product</i>	Julienne Stroeve (University College London)
14:30-14:45	<i>Limited predictability of extreme decadal changes in the Arctic Ocean freshwater content</i>	Torben Schmith (Danish Meteorological Institute)
14:45-15:00	<i>Recent Achievements in Deriving Sea Ice Thickness from Satellite Observations and Transition into an Operational Service</i>	Robert Ricker (Alfred Wegener Institute)
15:00-15:30	<b>Coffee Break</b>	
GROUP DISCUSSIONS I (15:30–17:00)		
Auditorium ‘Brainstorm’	Processes I	Gunilla Svensson

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Briefing Room	Processes II	Thomas Spengler
Room 'Aura'	Predictability I	Thomas Jung
Room 'Mare'	Predictability II	Greg Smith
Room 'Aqua'	User Engagement	Machiel Lamers
Room 'Terra'	Verification	Barbara Casati
17:00-18:30	<b><i>Posters II (Sessions C, D, F)</i></b>	
19:30	<b><i>No-host Conference Dinner at Ravintola Lasipalatsi</i></b> <b><i>Address: Mannerheimintie 22-24, 00100 Helsinki</i></b>	

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Wednesday, January 16<sup>th</sup> 2019

**GROUP DISCUSSIONS II (09:00–10:30)**

Auditorium 'Brainstorm'	Processes I	Gunilla Svensson
Briefing Room	Processes II	Thomas Spengler
Room 'Aura'	Predictability I	Thomas Jung
Room 'Mare'	Predictability II	Greg Smith
Room 'Aqua'	User Engagement	Machiel Lamers
Room 'Terra'	Verification	Barbara Casati
10:30-11:00	<i>Coffee Break</i>	

**REPORT FROM GROUP DISCUSSIONS (Auditorium 'Brainstorm')**

(chair: Thomas Jung)

11:00-11:10	Processes	Gunilla Svensson
11:10-11:20	Processes II	Thomas Spengler
11:20-11:30	Predictability I	Thomas Jung
11:30-11:40	Predictability II	Greg Smith
11:40-11:50	User Engagement	Machiel Lamers
11:50-12:00	Verification	Barbara Casati

**WRAP UP AND CLOSURE (12:00–12:30) (Auditorium 'Brainstorm')**

(chair: Thomas Jung/Thomas Spengler)

12:30-13:30 *Lunch (optional)*