

Program for the Svalbard Science Conference 5-6 of November 2019

- *Svalbard in a pan-Arctic setting*

Tuesday 5 November

08:00 - 09:30 Registration

09:30 - 11:30		
Session 1 Setting the stage (Chair: Ruth Astrid Sæter)		
09:30-09:40	Welcome to the conference Christina Abildgaard, The Research Council of Norway	
09:40-09:50	Introduction by moderator, Ruth Astrid Sæter	
09:50-10:00	Pan Arctic research, Ole Arve Misund, Norwegian Polar Institute	
10:00-10:10	SSF through 20 years, Svalbard Science Forum	
10:10-10:30	Invited talk: Learning from Earth's History: The Unprecedented Need Now for International Collaboration, Julie Brigham-Grette, University of Massachusetts-Amherst, US NAS Polar Research Board	1026
10:30-10:50	Multidisciplinary drifting Observatory for the Study of Arctic Climate (MOSAIC), Anja Sommerfeld, Alfred Wegener Institute	1006
10:50-11:10	Invited talk: Is the past the key to the future? Holocene warming in the Arctic, present and future, Jan Marcin Weslawski, Institute of Oceanology Polish Academy of Sciences	2025
11:10-11:30	Invited talk: «La Recherche» 1838 and 1839 - The first scientific expeditions to Svalbard, Per Kyrre Reymert, Kulturminnefondet	1001

11:30-12:30 Lunch

12:30 -14:30		
Session 2 Svalbard > 0°C (Chairs: Harald Steen, Brit Lisa Skjelkvåle)		
12:30-12:50	Invited talk: The Arctic climate transformation and the effects on the cryosphere, Ketil Isaksen, Norwegian Meteorological Institute	2026
12:50-13:10	Plant diversity and species richness responses to climate warming in Ny-Ålesund, Svalbard, Yi-Feng Yao, Chinese Academy of Sciences	5239
13:10-13:30	Is the Svalbard tundra getting wetter? – Evidence of vegetation change and its drivers over the last 20 years, Helen Anderson, University of Aberdeen	2011
13:30-13:50	Cultural Heritage Sites in Coastal Areas. Use, Monitor, Manage and Preserve Sites & Landscapes under Climate Change and Development Pressure (CULTCOAST), Vibeke Vandrup Martens, Norwegian Institute for Cultural Heritage Research	2015
13:50-14:10	Ecological plasticity – a key skill to survive in a changing Arctic, tested on Calanus, Emilia Trudnowska, Institute of Oceanology Polish Academy of Sciences	2016
14:10-14:30	Ecological resilience of Arctic marine food webs to climate change, Gary Griffith, Norwegian Polar Institute	2017

14:30-15:00 Break

15:00-16:00	Session 2: Panel discussion, Svalbard > 0°C (Moderator, Ruth Astrid Sæter)	
	Julie Brigham-Grette, University of Massachusetts-Amherst, US NAS Polar Research Board	
	Sergei Verkulich, Arctic and Antarctic Research Institute	
	Hanne H. Christiansen, The University Centre in Svalbard	
	Ketil Isaksen, Norwegian Meteorological Institute	
	Nuncio Murukesh, National Centre for Polar and Ocean Research	
	Thomas Hylland Eriksen, University of Oslo	
	Radovan Krejci, Stockholm University	

16:00-19:00	Session 3: Poster session and mingling (Chair SSF)	
16.30-17.00	Session 3.1 A bear ate my zodiac, 3 min lectures on what went wrong. (Chair: Pernilla Carlsson)	
	Andrey Fedorov: Hungry polar bear wants to make a selfi	
	Christoph Ritter: How the Polar Bear bewitched the Aerosol	
	Roland Kallenborn: "Expect the unexpected"- Personal experiences on sampling strategies for organic trace analysis in Polar environment	
	Frigga Kruse: Trust your friends. Or maybe not...	
	Ilan Kelman: The politics of political science: Researching Norway-Russia disaster diplomacy.	
	Kostas Eleftheriadis: What can possible go wrong on a little remote field station called Zeppelin?	
	Tobias Vonnahme: How sea water freeze at -2C, although the sea temperature is -8C...	
	Richard Hann: How Belugas stole my drone batteries	

19:00 Conference Dinner. Welcome by Kirsten Broch Mathisen, The Research council of Norway

Wednesday 6 November

09:00-11:00	Session 4: Svalbard in the dark (Chairs: Maarten Loonen, Børge Damsgård)	
09:00-09:20	Invited talk: Exploring the dark in the spirit of Nansen, Marit Reigstad, UiT The Arctic University of Norway	4012
09:20-09:40	Invited talk: International Collaboration in order to address Grand Challenge Questions in Earth System Science, Jøran Moen, University of Oslo	4013
09:40-10:00	Dark season observation of methane dynamics in seepages across Svalbard: clear signals and less noise, Andy Hodson, The University Centre in Svalbard	4001
10:00-10:20	Micro- and macroalgae during the Polar night, Eva Leu, Akvaplan-niva	4002
10:20-10:40	Zooplankton in Svalbard waters during the Polar Night, Malin Daase, UiT The Arctic University of Norway	4007
10:40-11:00	Synergistic Investigation of Arctic Aerosol in the darkness: remote sensing and in-situ perspectives, Konstantina Nakoudi, Alfred Wegener Institute	4010

11:00-12:00 Lunch

12:00-15:00		
Session 5: Parallel sessions		
Session 5.1 Toolbox (Chairs: Bo Andersen, Harald Steen), Room: Nemo		
12:00-12:10	Introduction by Chairs	
12:10-12:30	Near-Remote Sensing of Svalbard's Vegetation, Elisabeth Cooper, UiT The Arctic University of Norway	5104
12:30-12:50	Experiences, challenges and future perspectives of meteorological observations in the Arctic, Kjetil Stiansen, Norwegian Meteorological Institute	5106
12:50-13:10	Glacier Mapping and Wind Estimation with UAVs on Svalbard, Richard Hann, Norwegian University of Science and Technology (NTNU)	5109
13:10-13:30	Mapping plant functional groups, traits and degradation in the High Arctic using multispectral UAV imagery, Elanor Thomson, University of Oxford	5118
13:30-13:50	Improving our understanding of Arctic clouds: multi-instrument, multi-frequency, and combined modeling-observation approaches, Kersin Ebell, University of Cologne	5122
13:50-14:10 Break		
14:10-14:30	ALADINA – a mobile, flexible tool to study the spatial distribution of aerosol particles in the Arctic environment, Birgit Wehner, Leibniz Institute for Tropospheric Research	5124
14:30-15:00	Discussions	
Session 5.2 Long term monitoring (Chairs: Kjetil Tørseth, Pernilla Carlsson) Room: main hall		
12:00-12:10	Introduction by Chairs	
12:10-12:30	50 years of observations from the official meteorological station in Ny-Ålesund, Mareile A. Wolff, Norwegian Meteorological Institute	1018
12:30-12:50	Long-term decline of spring AOD in Ny-Ålesund, Christoph Ritter, Alfred Wegener Institute	5242
12:50-13:10	The demography of polar bears in Svalbard, Jon Aars, Norwegian Polar Institute	5217
13:10-13:30	The Bayelva High Arctic permafrost long term observation site: an opportunity for joint international research on permafrost, atmosphere, ecology and snow, Sebastian Westermann, University of Oslo	5226
13:30-13:50	The detailed seismic monitoring of Svalbard and adjacent areas, Andrey Fedorov, Kola branch of Geophysical Survey of Russian Academy of Sciences	5214
13:50-14:10 Break		
14:10-14:30	Long-term (1985-2019) changes of High Arctic environment in the Svalbard climate gradient, Alfred Stach, Institute of Geoecology and Geoinformation, Adam Mickiewicz University	5206
14:30-15:00	Discussions	
Session 5.3 An ocean of plastic (Chairs: Ingeborg Hallanger, Amy Lusher) Room: Hydra		
12:00-12:10	Introduction by Chairs	
12:10-12:30	Arctic marine litter: A circular approach, Eelco Leemans, Wageningen University and Research	5306
12:30-12:50	Plastic pollution contributions by major rivers within the Greater North Sea Region, Boglarka Baksay, Marine Scotland, University of Stirling	5309

12:50-13:10	Studies of Microplastic Distributions in the Arctic Seas in September-October 2018 during the 73 cruise of RV "Akademik Mstislav Keldysh", Evigeniy Yakushev, Norwegian Institute for Water Research	5311
13:10-13:30	Point sources and accumulation zones of anthropogenic microliter in Arctic waters a synthesis of several studies in Svalbard and Greenland, Maria E. Granberg, IVL Swedish Environmental Research Institute	5305
13:30-13:50	Microplastics pollution in the sediments of Kongsfjorden, Eswara V. Ramasamy, School of Environmental Sciences, Mahatma Gandhi University	5307
13:50-14:10 Break		
14:10-14:30	Marine littering in the Barents area: fishers' attitude, Julia Olsen, Nordland Research Institute	5301
14:30-15:00	Discussions	
Session 5.4 Rocks, mud and ice (Chairs: Brit Lisa Skjelkvåle, Jacek Jania) Room: Nautilus		
12:00-12:10	Introduction by Chairs	
12:10-12:30	Svalbard as a key to ichthyosaur evolution, Lene Liebe Delsett, Natural History Museum, University of Oslo	5427
12:30-12:50	Recent progress in Svalbard coastal change research – advances and remaining questions, Matt C. Strzelecki, University of Wroclaw	5423
12:50-13:10	Diversity and ecological functions of biological soil crusts in High Arctic ecosystems (Billefjorden, Central Svalbard), Josef Elster, University of South Bohemia	5406
13:10-13:30	Lake sediments with Azorean tephra reveal unglaciated areas existed on coastal northwest Spitsbergen during Last Glacial Maximum, Willem Van der Bilt, University of Bergen	5434
13:30-13:50	The frozen archives in a warming climate, Elisabeth Isaksson, Norwegian Polar Institute	5403
13:50-14:10 Break		
14:10-14:30	Past sea ice variations: reference values for a changing climate in Svalbard, Katrine Husum, Norwegian Polar Institute	5411
14:30-15:00	Discussions	
15:00-16:00	Session 6: Looking to the future (Chair: Kirsten Broch Mathisen, The Research Council of Norway/Svalbard Science Forum)	
15:00-15:20	Invited talk: The next generation of Polar scientists, Pernille Bronken Eidesen, The University Centre in Svalbard	6001
15:20-15:50	Reflections from the chairs of the parallel sessions 4 x 5 min	
15:50-16:00	Ending remarks, Harald Steen, Norwegian Polar Institute	
16:00 End of Conference		

