## **Svalbard Science Conference**

## 28-29 October 2025, Quality hotel Expo, Fornebu

## Monday 27 October From 16:00 Possible to set up posters in the poster area

Tuesday 28 October	
08:00–09:00 Registration	
09:00–09:40	Opening Session
00.00 00.10	Welcome + practical info
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	Opening speeches:
	Minister of Research and Higher education Sigrun Aasland
	Chief Executive Mari Sundli Tveit, Research Council of Norway
09:45–10:45	Director Camilla Brekke, Norwegian Polar Institute  Session 1: Strategies for the next International Polar Year (IPY-5)
09.45-10.45	Moderator: Maria Philippa Rossi
Keynote	Henry Burgess, President International Arctic Science Committee
Per Erik Opseth,	Integrating Geodesy into Polar Science: Enhancing Collaboration for the 5th
Norwegian mapping	International Polar Year
authority	The first of the f
Jørn Kristiansen, Met.no	Exploring Services, Risk and Observation and Model Improvement with the Polar
,	Coupled Analysis and Prediction for Services (PCAPS) project
Åshild Ønvik Pedersen,	COAT: A system for long-term, ecosystem-based monitoring of the Svalbard tundra
NPI	
Harald Steen, NPI and	Short announcement from IPY-Norway
Jon Børre Ørbæk, RCN	
	45
40.45 44.45 Oaffaa baaal	15 minutes Questions - debate
10:45–11:15 Coffee break	
11:15–12:15	Session 2: Svalbard in a pan-Arctic context
	Moderator: Maria Philippa Rossi
Keynote	Giuliana Panieri, CNR-ISP, Italy
Stein Haaland, UNIS	On the motion of the magnetic pole
Britta Schäfer,	Changes in Arctic mixed-phase clouds with global warming – insights from case
U. Oslo	studies and perturbed climate simulations
Björn-Martin Sinnhuber,	Historical meteorological data from Svalbard to better understand today's Arctic
Karlsruhe Institute of	warming
Technology	20 minutes Questions - debate
	20 Hilliates Questions - depate
12:15–13:45 Lunch	

13:45–14:45	Session 3: Managing risks in a changing Arctic Moderator: Maria Philippa Rossi	
Keynote	Gunhild Sætren, UNIS	
Igor Eulaers, NPI	A geospatial tool to support Cumulative Risk Management of the Svalbard	
	Archipelago	
Anatoly Sinitsyn, SINTEF	Polar Climate and Cultural Heritage: results of the PCCH	
Maaike Weerdesteijn, UNIS	Developing a Permafrost & Climate Change Response System	
	20 minutes Questions - debate	
14:45–15:30 Coffee break		
15:30–16:45	Session 4: Science-to-policy: Challenges and opportunities for Arctic science	
	Moderator: Maria Philippa Rossi	
	Panel discussion	
	Participants:	
	Franziska Hasenburg, Arctic Climate Action group Svalbard	
	Agata Goździk, Polish Academy of Sciences Nina Jensen, Rev Ocean	
	Øyvind Paasche, NORCE	
	By Wild T dd30ile, NOTOL	
16:45–17:30	Glacier Lamentation audio visual performance	
	Introduction to polar arts	
17:30–19:30	Polar arts + Posters + Mingling	
19:30 Conference Dinner at the hotel SIOS: SIOS Innovation Award (during dinner)		

Wednesday 29 October	
09:00-10:10	Session 5: Parallel sessions
09:00-10:10	Session 5a: New technologies and methods: how can they benefit polar science? I Chair: Maria Philippa Rossi
Richard Hann, NTNU	Glaciers from above and below: applying the observational pyramid in Svalbard
Kerstin Ebell, U. Koeln	Long-term Analysis of Vertically Resolved Cloud Observations at Ny-Ålesund (Svalbard) using Self-Supervised Deep Learning
Davide Di Blasi, CNR	Svalbard at the Forefront of Global Change: The Role of Marine Robotics in Polar Observations
Lekhraj Saini, Indian Institute of Technology	A Ground-Based Technique for Virga Detection over Ny-Ålesund, Svalbard
Angelo Odetti, CNR	Innovative Marine Robotic Platforms for High-Resolution Monitoring of Arctic Fjords
William Harcourt,	A digital twin of Svalbard's cryosphere (SvalbardDT)
U. Aberdeen	
Cyril Palerme, Met.no	MET-AICE: an operational data-driven sea ice prediction system for the European Arctic

09:00–10:00	Session 5b: Coast and fjords as systems in change I
	Chair: Arunima Sen, UNIS
Sophie ten Hietbrink,	Constraining offshore groundwater flow and porewater freshening mechanisms in
U. Stockholm	Svalbard fjords
Piotr Kuklinski, IOPAN- PL	Will calcifiers survive rapidly progressing changes in the Svalbard marine system?
Phillipp Assmy, NPI	Extensive summer blooms in fjords of West Spitsbergen triggered by run-off from land
Janne E. Søreide, UNIS	Towards the borealisation of Isfjorden: Seasonal, interannual and decadal changes in zooplankton biodiversity and community composition
Zuzanna Swirad, IGF-PL	Fjord ice conditions in Hornsund, Svalbard from synthetic aperture radar imagery over 23 seasons
10:00 – 11.30 Coffee break	c - Posters
11:30–12:30	Session 6: Parallel sessions
11:30–12:40	Session 6a: New technologies and methods: how can they benefit polar
	science? II
	Chair: Maria Philippa Rossi
Malte Müller, Met.no	The Svalbard Marginal Ice Zone Campaigns 2024/2025 - distributed networks of
	wave, sea-ice drift, and temperature observations
Kharis Schrage, MIT	CATAIN: Exploring Fine-Resolution Dynamics of Newly Settled Invertebrates Using a
	Prototype Camera
Aleksey Marchenko, UNIS	Electromagnetic emission in ice bending failure tests
Kim Holmén, NPI	Sampling Strategies in Data-Scarce Regions: An Adaptive, Quantum-Inspired Approach
Dyre Dammann, NGI	IceView – Operational mapping of landfast sea ice around Svalbard
Federico Scoto, UNIVE	A comprehensive snow observing system to monitor the seasonal evolution of the snowpack and the impacts of warm spells in Ny-Ålesund
Tuomo Saloranta,	Snow map services for estimating seasonal snow conditions over Svalbard in real-
Norwegian Energy	time
Regulatory Authority	
11:30–12:30	Session 6b: Coast and fjords as systems in change II Chair: Gijs Breedveld, UNIS
Kit M. Kovacs, NPI	ARK - Arctic marine mammals & their prey in a time of climate change: a Kongsfjorden Case Study
Morten Køltzow, Met.no	The Copernicus Arctic Regional ReAnalysis (CARRA): Strength and weaknesses
Jörg Haarpaintner,	A decade of summer ice mélange distribution observed by Sentinel-1 and glacier
NORCE	frontal ablation and in Kongs- and Krossfjorden, Svalbard
Marianna Pinzone, NPI	Tracing mercury sources in the Arctic marine ecosystem of Kongsfjorden, Svalbard
Dhruv Maniktala, IGF-PL	Studying spatio-temporal variability of glacier calving in Hornsund Fjord, Svalbard
Maria Ansine Jensen,	The first high-resolution dataset fort Svalbard coastal landforms and processes - a
UNIS	tool for remote assessment of coastal change
12:30-13:30 Lunch	
13:30–14:45	Session 7: Parallel sessions
13:30–14:45	Session 7a: Climate resilience of Arctic settlements and the footprint of anthropogenic activities

	Chair: Maria Philippa Rossi
Heli Routti, NPI	Temporal trends of per- and polyfluoroalkyl substances (PFAS) in top predators from
,	Svalbard over two decades
Kristine Westergaard,	Horizon scanning for alien species and their potential distribution in a warming Arctic:
NTNU	a panarctic and a Svalbard case study of vascular plant species
Håkon Sandven,	Taking Off The Lid: The changing lightscape of the Arctic Ocean and Barents Sea
U. Bergen	under sea ice decline
Zhiyong Xie, Helmholtz-	Challenge of emerging organic contaminants in the changing Arctic
Zentrum Hereon, Inst of	
Coastal Environmental	
Chemistry	
France Collard, NIVA	Human exposure to microplastic and UV stabilisers through Atlantic cod
	consumption: a focus on Norway
Elena Barbaro, CNR	Which chemical species are deposited during rain-on-snow events in the Arctic?
Paloma Guzman, NIKU	Wilderness or Witness: Shifting Values and the Governance of Arctic Remain
13:30–14:45	Session 7b: Svalbard in transformation: from seasonal variability to long-term
	trends
	Chair: Oskar Landgren, Met.no
Willem van der Bilt,	Biogeochemical scans capture 7000 years of abrupt and extreme winter climate
U. Bergen	change on Svalbard
Rúna Magnússon,	The Tundra Rainfall Experiment; Legacy and Seasonal Effects of Heavy Rainfall
Wageningen U.	Events on Svalbard Ecosystem Functioning
Manuel Bensi, OGS	A decade of oceanographic mooring data offshore southwest of Svalbard
	Changes in Svalbard's nitrogen cycle: seasonal to multi-decadal perspectives based
Andrew Hodson, UNIS	upon studies of riverine biogeochemistry
Rasmus Benestad,	
Met.no	Downscaled climate scenarios for Svalbard and the Barents Sea region
Thomas V Schuler,	
U. Oslo	Svalbard's 2024 Record Summer: A Window into Future Arctic Glacier Meltdown?
	How marine life affects clouds and climate: Methane sulphonic acid - a new piece in
Mikko Sipilä, U. Helsinki	the puzzle
14:45–15:15 Coffee break	
15:15 – 16:30	Session 8: Plenary
15.15 16.10	Chair: Maria Philippa Rossi
15:15–16:10	Svalbard in the future
	Invited keynotes Jack Kohler, NPI and Larissa Beumer, UNIS: The future of research in Svalbard
	Information from RCN and NPI
16:10–16:30	Prize and concluding remarks
	APECS Norway: APECS poster prize Harald Steen, NPI: Concluding remarks
16:30 End of Conference	