## **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		
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09:00 - 09:40	Opening Session	
	Welcome + practical info	
	Opening speeches:	
	Minister of Research and Higher education Sigrun Aasland	
	Director 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)	
03.45 - 10.45	Moderator: Maria Philippa Rossi	
Keynote	Henry Burgess, BAS	
Per Erik Opseth,	Integrating Geodesy into Polar Science: Enhancing Collaboration for the 5th	
Norwegian mapping	International Polar Year	
authority		
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		
	15 minutes Questions - debate	
10:45 – 11:15 Coffee breal	k	
11:15 – 12:15	Session 2: Svalbard in a pan-Arctic context	
	Moderator: Maria Philippa Rossi	
Keynote	Giuliana Panieri, CNR-ISP	
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	
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,	Developing a Permafrost & Climate Change Response System	
UNIS		
	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	
	2711101 000010, 1101102	
16:45 -17:30	Glacier Lamentation audio visual performance	
	Introduction to polar arts	
17:30 – 19:00	Polar arts + Posters + Mingling	
19:00 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,	Long-term Analysis of Vertically Resolved Cloud Observations at Ny-Ålesund
U. Koeln	(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	A Ground-Based Technique for Virga Detection over Ny-Ålesund, Svalbard
Institute of Technology	
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

Chair: Maria Philippa Rossi		
Session 7a: Climate resilience of Arctic settlements and the footprint of anthropogenic activities		
Session 7: Parallel sessions		
12:30 – 13:30 Lunch  13:30 – 14:45 Session 7: Parallel sessions		
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tool for remote assessment of coastal change		
The first high-resolution dataset fort Svalbard coastal landforms and processes - a		
Studying spatio-temporal variability of glacier calving in Hornsund Fjord, Svalbard		
Tracing mercury sources in the Arctic marine ecosystem of Kongsfjorden, Svalbard		
A decade of summer ice mélange distribution observed by Sentinel-1 and glacier frontal ablation and in Kongs- and Krossfjorden, Svalbard.		
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The Copernicus Arctic Regional ReAnalysis (CARRA): Strength and weaknesses		
ARK - Arctic marine mammals & their prey in a time of climate change: a Kongsfjorden Case Study		
Chair: Gijs Breedveld, UNIS		
Session 6b: Coast and fjords as systems in change II		
uno		
time		
Snow map services for estimating seasonal snow conditions over Svalbard in real-		
A comprehensive snow observing system to monitor the seasonal evolution of the snowpack and the impacts of warm spells in Ny-Ålesund		
IceView – Operational mapping of landfast sea ice around Svalbard		
Approach		
Sampling Strategies in Data-Scarce Regions: An Adaptive, Quantum-Inspired		
Electromagnetic emission in ice bending failure tests		
Prototype Camera  Electromagnetic emission in ice handing failure tests		
CATAIN: Exploring Fine-Resolution Dynamics of Newly Settled Invertebrates Using a		
wave, sea-ice drift, and temperature observations		
The Svalbard Marginal Ice Zone Campaigns 2024/2025 - distributed networks of		
Chair: Maria Philippa Rossi		
science? II		
Session 6: New technologies and methods: how can they benefit polar		
Session 6: Parallel sessions		
k - Posters		
Fjord ice conditions in Hornsund, Svalbard from synthetic aperture radar imagery over 23 seasons		
in zooplankton biodiversity and community composition		
I land Towards the borealisation of Isfjorden: Seasonal, interannual and decadal changes		
Extensive summer blooms in fjords of West Spitsbergen triggered by run-off from		
Will calcifiers survive rapidly progressing changes in the Svalbard marine system?		
From bedrock to biosphere: Mercury mobilisation in a changing Arctic		

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
EL D. L. OND	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: Ockar Landgran, Mot no
Willem van der Bilt,	Chair: Oskar Landgren, Met.no  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
Wander Bensi, Ooo	Changes in Svalbard's nitrogen cycle: seasonal to multi-decadal perspectives based
Andrew Hodson, UNIS	upon studies of riverine biogeochemistry
Rasmus Benestad,	apon control of the c
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:
	Svalbard Research Office (from 2026), RCN and NPI
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	Upcoming polar research calls, RCN
16:10-16:30	Prize and concluding remarks
	APECS Norway: APECS poster prize
	Harald Steen, NPI: Concluding remarks
16:30 End of Conference	