POSTER LIST

DAY 1 Tuesday | 3 September 2024

Poster No.	Paper Title	Name	Organisation
1	Revealing Hidden Ice Shelf Channel Melt Patterns	Ann-Sofie Zinck	Delft University Of Technology
2	SAR signal penetration depth correction in TanDEM-X DEM differencing for measuring glacier elevation change	Dana Floricioiu	German Aerospace Center (DLR)
3	eDNA monitoring: a preliminary study on communities along a sub-Arctic historic transect at 75° N	Maria Papale	ISP-CNR
4	Is the Antarctic sea ice already sweating? – A glimpse into recent in-situ sea ice and snow data in the Weddell Sea	Stefanie Arndt	Alfred Wegener Institute Helmholtz Center for Polar and Marine Research
5	"CARRA, high resolution climate reanalysis as contribution to polar climate research"	Xiaohua Yang	Danish Meteorological Institute (dmi)
6	Exploring the impacts of glacial meltwater on marine CO2 uptake potential: Insights from Young Sound, NE Greenland	Henry Henson	Aarhus University
7	A new global multi-source sea ice concentration composite	Ida Olsen	Danish Meteorological Institute (dmi)
8	Polar surface temperature observations from satellite; from 1982 to present	Magnus Suhr	Danish Meteorological Institute
9	Investigating elevation changes of ice shelves and their tributary glaciers along the south-west Antarctic Peninsula	Antonia Warnstedt	FAU Erlangen-Nuremberg
10	"Assessing sea ice thickness and its impact on the timing of ice-free Arctic ocean in the summer in CMIP6 ensemble"	Tian Tian	Danish Meteorological Institute
11	Generation of the Internal Pycnocline in the Subpolar Southern Ocean by Wintertime Sea Ice Melting	Andreas Klocker	Norce Norwegian Research Centre & Bjerknes Centre For Climate Research
12	Sea ice age dynamics as an integrated metric of model skill in CMIP6	Richard Davy	Nansen Center
13	Sea ice draft observations from the northwestern Barents Sea reveal the seasonal arrival of thicker ice from the central Arctic	Øyvind Foss	Norwegian Polar Institute
14	Breaking the Ice: Exploring the Changing Dynamics of Winter Breakup Events in the Beaufort Sea	Jonathan W. Rheinlænder	Nansen Environmental And Remote Sensing Center
15	How snow changes the temperature structure of Antarctic sea ice - a case study from McMurdo Sound	Ruzica Dadic	WSL Institute for Snow and Avalanche Research SLF
16	Scientific rationale for the RINGS efforts facilitating airborne geophysical surveys and relevant research of the Antarctic Ice Sheet margin	Kenny Matsuoka	Norwegian Polar Institute
17	"Melting from below: An abrupt transition in Antarctic sea ice-ocean system"	Alexander Haumann	Alfred Wegener Institute / LMU Munich
18	Run-off increases heavy metal content in Arctic kelps	Kai Bischof	University of Bremen
19	FACE-IT: Developing adaptive co-management of Arctic fjords in transition	Simon Jungblut	University Of Bremen
20	Historical changes in biomass, total abundance, and species composition of seaweed-associated fauna in Kongsfjorden, Svalbard	Simon Jungblut	University Of Bremen
21	Feeding of sea urchins on Arctic macroalgae assemblages changing with depth	Simon Jungblut	University Of Bremen
22	Affecting all of us! Potential consequences of sea urchins to local coastal economy	Simon Jungblut	University Of Bremen
23	Mapping climate change through time (1830-2023) using Arctic moss diatoms as bio-indicator	Charlotte Goeyers	Ghent University
24	Land Cover Succession for selected Drained Lake Basins in Yamal, Siberia.	Clemens von Baeckmann	B.geos
25	Microbial degradation of different carbon compounds and their impact on the microbial cryoconite community on the Greenland Ice Sheet	Mirjam Paasch	Department of Environmental Science, Aarhus University
26	Marine mammal habitat use and reactions to vessel traffic in a proposed marine protected area as revealed by passive acoustic monitoring	Veronica, L.M. Coppolaro	CNR-ISP National Research Council Institute of Polar Sciences and University of Manitoba
27	Porifera of the Pasvik River (Northern Fennoscandia): microbiological and chemical observations in two different sub-Arctic freshwater sponges	Carmen Rizzo	Stazione Zoologica Anton Dohrn
28	First report on the bacterial communities associated with Tricellaria ternata (Ellis and Solander, 1786) (Phylum Bryozoa)	Angelina Lo Giudice	Institute Of Polar Sciences
29	Prokaryotic life in hypersaline brines from cryosystems of the Northern Victoria Land	Angelina Lo Giudice	Institute Of Polar Sciences
30	"AQUARIUS - Integrating Research Infrastructures – Connecting Scientists – Enabling Transnational Access"	Bernadette Ní Chonghaile	Marine Institute
31	Photoperiod and temperature interactions drive the latitudinal distribution of kelps under climate change	Nora Diehl	University Of Bremen
32	Shifts in summertime Antarctic phytoplankton assemblages raise concerns for Antarctic ecosystems	Alexander Hayward	Dmi
33	Arctic Marine Heatwaves: Assessing the Impacts on Marine Primary Producers	Alexander Hayward	Dmi
34	Intangible knowledge and practices of coastal communities regarding the marine environment of the Narsaq and Qaqortoq Fjords, Kujalleq Municipality, South Greenland	Jules Danto	European Sustainability Center
35	Arctic Permafrost Atlas	Leena Viitanen	Alfred Wegener Institute

The current state and forthcoming changes in the polar regions

Polar ice, ocean, climate dynamics and tipping points

Polar ecosystems, biodiversity and carbon cycles

Humans in the Arctic

Societal impacts of polar change

POSTER LIST

DAY 2 Wednesday | 4 September 2024

Poster No.	Paper Title	Name	Organisation
36	A penetration-corrected TanDEM-X DEM of the Greenland ice sheet – First results	Sahra Abdullahi	German Aerospace Center DLR
37	Greenland's ice marginal lakes under a changing climate	Penelope How	Geological Survey Of Denmark And Greenland
38	Simultaneous estimation of Arctic sea ice thickness and snow depth from satellite altimeter and radiometer measurements	Hoyeon Shi	Danish Meteorological Institute
39	Detecting changes in ocean production and phytoplankton diversity in polar regions through improved regional Earth observation capacity	Katarzyna Dragańska-Deja	Institute of Oceanology Polish Academy of Sciences
40	A new magnetic compilation of Greenland from airborne and satellite data	Björn Heincke	Geus
41	Baltic Sea Ice Classification based on Landsat 8 Imagery and Neural Networks: Improving training labels with graph-based methods	Stefan Kowalewski	German Aerospace Center (DLR)
42	POLARIN: The Polar Research Infrastructure Network	Veronica Willmott Puig	Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research
43	Greenland surface melt product from remotely sensed multi-sensor surface temperatures.	Magnus Suhr	Danish Meteorological Institute
44	Ice layers in the snowpack: citizen science observations	Leena Leppänen	Arctic Centre, University of Lapland
45	Super-resolution of satellite observations of sea ice thickness using diffusion models and physical modeling	Julien Brajard	Nersc
46	Physical and biogeochemical factors controlling the deposition and preservation of laminated sediments in Edisto Inlet, western Ross Sea (Antarctica): Data from February 2023	Manuel Bensi	OGS
47	What is the 15% sea ice concentration ice edge?	Rasmus Tonboe	Denmark's Technical University
48	Unlocking the glaciological information of historical aerial imagery to obtain long-term glacier mass balance information in the Antarctic Peninsula	Vijaya Kumar Thota	Friedrich Alexander University Erlangen-Nuremberg
49	Chukchi and Beaufort Seas circulation in 2013-2023 from satellite radar altimetry	Maria Pisareva	Deutsches Geodätisches Forschungsinstitut, Technische Universität München (DGFI-TUM)
50	Coupling of ice temperature and Solid Earth models for Antarctica with emphasis on the role of subglacial sediments.	Georg Hüttner	Kiel University
51	Identifying Greenland's grounding lines from space: A digital elevation modelling approach	Laura Melling	Lancaster University
52	"Water Mass Variability and Trend in the Uummannaq Fjord System and Adjacent Continental Margin"	Leandro Ponsoni	Flanders Marine Institute (VLIZ)
53	Large-scale and High-resolution Frontal Ablation Estimates in the Arctic through a Machine Learning Approach	Dakota Pyles	Friedrich-Alexander-Universität Erlangen-Nürnberg
54	Enhanced Sea Ice Concentration: Optimisation of a Sentinel-1 U-Net Ice Water Classifier for Higher Resolution Mapping	Jozef Rusin	Meteorological Institute Norway
55	Sea ice concentrations and sea ice type for 1975 and 1976 from NIMBUS 6 SCAMS data	Wiebke Margitta Kolbe	DTU Space / DMI
56	Challenges and opportunities of Remote Sensing for exploring Greenland's offshore marine phytoplankton	Tobias Vonnahme	Greenland Institute of Natural Resources
57	Greenland sea level monitoring: Data collection, quality control, and community impact	Jian Su	Danish Meteorological Institute
58	Observations of Greenland near-surface properties from satellites	Kirk Scanlan	DTU Space
59	DA-SIT: Drift-aware sea ice thickness maps from satellite remote sensing	Robert Ricker	NORCE Norwegian Research Centre
60	Tracking subglacial water propagation using Sentinel-1 DInSAR	Anders Kusk	Technical University Of Denmark
61	Recent progress within the framework of ESA CCI+ Permafrost	Annett Bartsch	b.geos
62	Icing on the forefield of a land-terminating outlet glacier in West Greenland	Jakob Abermann	Geography and Regional Science Institute, University of Graz
63	AI4IS - Building a multivariate datacube for ice shelving calving prediction	David Parkes	Lancaster University
64	Towards an improved assessment of supraglacial lakes on the Greenland and Antarctic ice sheets using SAR imagery	Jacqueline Otto	Lancaster Environment Centre, Lancaster University
65	Sea ice concentration using data fusion: A preliminary assessment of ice surface temperature	K Andrea Scott	Katharine Andrea Scott
66	The surface geology in South Greenland from joint inversion of potential field data	Agnes Wansing	Kiel Univesity
67	Bioclimatic indicators driving spectral greenness change in Greenland	Tiago Silva	University of Graz
68	Estimating Geothermal Heat Flow in Greenland constrained by geological provinces	Judith Freienstein	Kiel University
69	Usability of high-resolution Planet data in the Arctic	Anica Huck	Planet
70	Complex features with unknown glaciological origin in the ablation zone of Greenland	Sara-Patricia Schlenk	German Aerospace Center (DLR)

Polar observations, models and data

POSTER LIST

DAY 3 Thursday | 5 September 2024

Poster No.	Paper Title	Name	Organisation
71	Mapping subsurface water on the Greenland ice sheet from multi-frequency passive microwave remote sensing	Baptiste Vandecrux	Geological Survey of Denmark and Greenland
72	Trends in ice sheet elevation and mass over the past three decades by the Centre for Polar Observation and Modelling	Jenny Maddalena	Lancaster University
73	Increased ice slab formation has led to Increased coverage of supraglacial hydrological features on the Greenland ice sheet over the past decade	Jenny Maddalena	Lancaster University
74	Using satellite-derived surface temperatures to benchmark climate models and reanalyses in the Arctic	Pia Englyst	Danish Meteorological Institute
75	A new global, combined SST and IST CDR from 1982 to 2024, for the Copernicus Climate Change Service	Pia Englyst	Danish Meteorological Institute
76	Reference observations in support of sea ice altimetry missions – An overview and future needs	Ida Olsen	Danish Meteorological Institute (dmi)
77	Reconstruction of complete Greenland surface temperature fields on daily level from 1958 to present using ML techniques	Dina Rapp	University Of Copenhagen
78	"Extensive subglacial activity in East Antarctic margin revealed by Sentinel-1 InSAR timeseries"	Jelte Van Oostveen	NORCE Norwegian Research Centre
79	"Assessing L-band emission models for sea ice thickness retrieval from SMOS and future CIMR observations"	Carolina Gabarro	ICM/CSIC
80	The Italian Polar Data Repository: advancing Polar Research with FAIR Data Infrastructure	Chiara Ripa	cnr-isp
81	What Factors Explain the Current Arctic Albedo and Its Future Change?	Doyeon Kim	NASA (National Aeronautics and Space Administration) Langley center
82	ARCFISH -Digital Twin of the Ocean for Arctic Fisheries	Marie Maar	Aarhus University
83	Gravity field recovery by combining polar ground gravimetry data with satellite gravimetry data	Biao Lu	DTU Space
84	The impact of assimilation of novel sea ice product on sea ice forecast for Greenlandic waters	Till Andreas Soya Rasmussen	Danmarks Meteorologiske Institut
85	Larsen C Ice Shelf rift detection and evolution using C- and L-band frequency synthetic aperture radar	Kali Mcdougall	University Of Victoria
86	A decade of winter supraglacial lake drainage using high density C-band SAR observations of NE Greenland	Connor Dean	University Of Victoria
87	Contribution of SMOS Sea Surface Salinity Data to the Estimation of Liquid Freshwater Content and Sea Ice Meltwater in the Beaufort Sea	Marta Umbert	Barcelona Expert Center, Institute of Marine Sciences, CSIC
88	Airborne P-band radar data acquisition in Antarctica	Jørgen Dall	Technical University of Denmark
89	Optimization of multi-frequency (X-, C- and L-band) synthetic aperture radar for analysis of melt season supraglacial lake properties	Connor Dean	University Of Victoria
90	Advancements in Estimating the Biological Carbon Pump in High-Latitude Oceans: Integration of Earth Observation, Machine Learning, and Ocean Reanalysis Techniques	Tsuyoshi Wakamatsu	NERSC
91	Reconstruction of Arctic sea ice thickness (1992-2010) based on a hybrid machine learning and data assimilation approach	Léo Edel	Nersc, Norway
92	Paleoceanographic evolution in the Arctic Makarov Basin since the early Pleistocene	Boo-Keun Khim	Pusan National University
93	Deep learning-based supraglacial lake depth detection on the Greenland Ice Sheet by combining ICESat-2 and Sentinel-2 data	Daniele Fantin	SCIENCE AND TECHNOLOGY AS
94	InSAR Subsidence-Derived Soil Moisture Index for Arctic Lowland Permafrost Regions	Barbara Widhalm	b.geos
95	A machine learning approach on SMOS thin sea ice thickness retrieval	Ferran Hernández-Macià	Institute of Marine Sciences (ICM-CSIC) & isardSAT
96	Determination of glaciers' movements based on a machine learning approach	Magdalena Łucka	AGH University Of Krakow
97	Next Generation Gravity Mission design: will new satellite constellations be able to resolve sub-monthly mass change events in Greenland?	Mariia Usoltseva	Technical University of Munich
98	Investigation of tidal grounding line migration using SAR line-of-sight offset time series	Sindhu Ramanath Tarekere	German Aerospace Center
99	CryoRad - An innovative radiometric mission for the cryosphere	Marion Leduc-leballeur	Ifac-cnr
100	The Untapped Potential of Using Expedition Ships in the Polar Regions as a Platform for Science & Education	Henry Evans	Hurtigruten Expeditions (HX)
101	Monitoring supraglacial lake dynamics in Antarctica with machine learning	Celia Baumhoer	German Aerospace Center (DLR)
102	SnowDrone - Measuring snow depth on sea ice using a drone-based snow radar	Robert Ricker	NORCE Norwegian Research Centre
103	Iron availability dynamics in Antarctic coastal lakes: insights into yeasts tolerance to Fe by studying RNA adaptation response	Maria Papale	ISP-CNR
104	Deep Sea Learning: Detection of Southern Ocean Taxa Using Computer Vision	Cameron Trotter	British Antarctic Survey
105	DiffIceNet: Forecasting sea ice with conditional latent diffusion	Andrew McDonald	University of Cambridge
106	Arctic ASAP – an uncrewed airship for polar science	Skipper Darlington	Arcticasap.org

Polar observations, models and data

The current state and forthcoming changes in the polar regions