

	Monday 6 Nov 2023 UiT & Fram Centre	Tuesday 7 Nov 2023 (Day 1) The Edge
9.00		Introduction 9.00 – 9.30
9.30		Keynote Talks
10.00		9.30 -10.30
10.30		Coffee
11.00		Plenary Talks 11.00 – 12.00
12.00		Panel Discussion 12.00 – 12.30
12.30		Lunch
13.00		12.30 – 13.30
13.30	Early Career Event 13.00 – 17.00 (UiT, Administration Building room K1.04)	
14.00		Parallel Session A, B, C 13.30 – 15.00
14.30		
15.00		Coffee
15.30		Parallel Session A, B, C
16.00		15.30 – 16.30
16.30		
17.00		Poster Session I (A, B, C) 16.30 – 18.00
17.30		1000 1000
18.00		Get some air 18.00 – 19.30
19.30	Reception 18.00 – 21.00	
20.30	(Fram centre, Lysgården)	Side event with APECS: Early career networking
21.00		19.30 – 21.30
22.30		

Wednesday 8 Nov 2023 (Day 2) The Edge	Thursday 9 Nov 2023 (Day 3) The Edge	
Keynote Talks 9.00 -10.30	Plenary: The Future Arctic Ocean 9.00 -10.30	
Col	ffee	
Plenary Talks 11.00 – 12.00	Plenary: The Future Arctic Ocean 11.00 – 12.00	
Panel Discussion 12.00 – 12.30	Perspectives & Closing	
Lunch 12.30 – 13.30		
Parallel Session D, E, F 13.30 – 15.00	Side Event "From Observation to Adaptation" 13.30 – 16.00	
Coffee		
Parallel Session D, E, F 15.30 – 16.30		
Poster Session II (D, E, F, and the future Arctic Ocean) 16.30 – 18.00		
Get some air 18.00 – 19.30		
Conference Dinner 19.30 – 22.30		

		Tuesday 7 November 2023 09.00 – 14.00 The Edge		
09:00	"Towards	s the new Arctic Ocean – Past, Present Marit Reigstad	t, Future"	
		Keynote Talks (Chair: Tor Eldevik)		
09.30	•	in the Changing Arctic Ocean – the La Polyakov (University of Alaska Fairbank	•	
10.00	Primary Production and the Shifting Foundations of a Changing Arctic Ocean Karley Campbell (UiT The Arctic University of Norway, Norway)			
10.30		Coffee		
	Plenary Talks (Chair: Tor Eldevik)			
11.00	Strong Seasonality and Advection Shape the Zooplankton Community in the European Arctic Janne Søreide (University Centre of Svalbard, Norway)			
11.15	Fishes in the Canadian Arctic, the Barents Sea, and Beyond Maxime Geoffrey (Memorial University of Newfoundland, Canada)			
11.30	Biogeochemistry of the Holocene Sediments in the Barents Sea, and What it Might Mean for Paleoceanography Christian März (University of Bonn, Germany)			
11.45		cts on Pollution Accumulation and Effection of Costo, Norwa		
12.00		Panel Discussion		
12.30		Lunch		
	Parallel Session A Physical drivers: causes and consequences of Arctic Ocean Warming, freshening and sea ice decline Chairs: Frank Nilsen, Mary-Louise Timmermans, Laura Castro de la Guardia	Parallel Session B The living Ocean: Understanding Ecosystem Structure and Function Across Seasons in a Changing Arctic Chairs: Bodil A. Bluhm, Sławomir Kwaśniewski, Julia Giebichenstein	Parallel Session C Environmental Lessons from the Past Chairs: Katrine Husum, Christian März, Christine Tømmervik Kollsgård	
13.30	Stormier Arctic Winters due to Surface Warming Amplification Martina Zapponini	Seasonal Dynamics of Sea Ice Protists and Meiofauna in the Northwestern Barents Sea in Relation to Sea Ice Properties Miriam Marquardt	Unravelling the Link between Arctic-Atlantic Exchanges and Meridional Overturning	
13.45	Sea Ice Fracturing Promotes Near- Inertial Atmosphere-Ocean Momentum Transfer during an Arctic Winter Storm Laura Crews	Diversity and Distribution of Arctic Protists in Pelagic and Sympagic Habitats in the Northern Barents Sea as Revealed by Metabarcoding Karoline Saubrekka	Circulation during the last Deglaciation Ulysses Ninnemann	

		Tuesday 7 November 2023 14.00 – 18.00 The Edge	
	Parallel Session A	Parallel Session B	Parallel Session C
14.00	A Coupled Ice-Ocean Framework to Investigate the Impact of Sea- Ice Deformation in the Winter Sea-Ice Mass Balance in the Arctic Einar Ólason	Phytoplankton Primary Production in the North-Western Barents Sea 1980-2021: No Obvious Trends but a Regime Shift Triggered by a Pulse of Atlantic Water	Holocene Natural Variability in Atlantic Water Inflow Properties to the Arctic Nil Irvali
		Laura Castro de la Guardia	
14.15	Towards an Improved Representation of Arctic Sea Level, Ocean Currents and Tidal Modelling Using Multi-Mission Satellite Altimetry Felix Müller	Effects of Multiple Stressors on Overwintering Arctic Zooplankton Jildou Dijkstra	Reconstruction of Bottom Current Activity on the Northern Svalbard Margin on Orbital and Millennial- Scales during the late Quaternary Christine Lockwood-Ireland
14.30	Assessing the Climate Change in the Arctic Region from Satellite Altimetry: A Comprehensive Analysis of Sea-Level Variability Stine Kildegaard Rose	Changes in the Life-History Strategy of Fish Communities from the Barents Sea in a Warming Environment Cristiane Bernardo	Planktic Foraminifera in the Barents Sea: Reconstruction of Biomass and Biodiversity Changes during the last Three Millennia Griselda Anglada-Ortiz
14.45	Mechanisms and Impacts of Arctic Ocean Freshwater Variability on Centennial Timescales Oliver Mehling	Feeding Preferences of Sea Urchins on Arctic Macroalgae Assemblages Changing with Depth Simon Jungblut	Delivery and Reactivity of Iron on the Eurasian Arctic Continental Shelf in the Holocene Rachel Gray
15.00		Coffee	
15.30	Understanding the Relative Roles of Diffusion and Mechanical Mixing in the Canada Basin's Upper Halocline Heat Budget Paul Curtis	Seasonal and Spatial Variability in Macrobenthic Size Structure and Functioning in the Northern Barents Sea Barbara Górska	Glacial History of the Northern Barents Sea Reconstructed from
15.45	How Atlantic Heat Makes Arctic Sea Ice Retreat Lars Henrik Smedsrud	Blue Carbon Storage within Benthic Ecosystems across Multiple Habitats within the Barents Sea with Respect to Sea Ice Loss and the Anthropogenic Impact of Trawling Terri Souster	Submarine Landforms –Nansen Legacy Results and Research Outlook Tom Arne Rydningen
16.00	Retreating Sea Ice in the Barents Sea – the Arctic Hotspot Region Signe Aaboe	Biodiversity in the Northern Barents Sea and Adjacent Nansen Basin – Towards an Updated Inventory Slawomir Kwaśniewski	Reconstructing Paleoenvironment and Sedimentary Processes of the Northern Barents Sea Continental Slope Christine Tømmervik Kollsgård
16.15	Unprecedented Warming Rate over Northern and Eastern Svalbard Ketil Isaksen	Ranges of Annual Production in the Barents Sea along Environmental Gradients Rolf Gradinger	Depositional Environments in the Northern Barents Sea, from the Last Glacial to the Present Vårin Trælvik Eilertsen
16.30		Poster Sessions	

	Wo	dnesday 8 November 20	72
	vve	09.00 – 14.00	25
		The Edge	
		Keynote Talks (Chair: Sebastian Gerland)	
09.00	Characteristics and Composition of Sea Ice in the Central Arctic Ocean Marcel Nicolaus (Alfred-Wegener-Institute, Germany)		
09.30	Freshwater Impacts on the Arctic Ocean Carbon Cycle, Views from Multiple Scales Kristina Brown (University of Manitoba, Canada)		
10.00	Benthic Systems in Pacific and Atlantic Sectors of the Arctic Ocean Monika Kędra (Institute of Oceanology Polish Academy of Sciences, Poland)		
10.30		Coffee	
Plenary Talks (Chair: Sebastian Gerland)			
11.00	Large-Scale Atmospheric Drivers of Barents Sea Climate Variability Camille Li (University of Bergen, Norway)		
11.15	Importance of Sea-Ice-Atmosphere Interactions for Kilometer-Scale Weather Prediction Malte Müller (Norwegian Meteorological Institute, Norway)		
11.30	Microbial Communities in the Future Central Arctic Ocean – What can We Learn from Present Observations and What's Next? Oliver Müller (University of Bergen, Norway)		
11.45	Ecosystem Modelling to Support Ecosystem-Based Management in the Barents Sea, Now and in the Future		
	Benjamin Planque (Institute of Marine Research, Norway)		
12.00		Panel Discussion	
12.30		Lunch	
	Parallel Session D Caught in Transit – Key Processes on the Inflow Shelves and Their Regional Connectivity to Pan-Arctic Systems Chairs: Randi B. Ingvaldsen, Jackie Grebmeier, Snorre Flo	Parallel Session E Around and Out: Processes Along Interior and Outflow Shelves Chairs: Paul Renaud, Zou Zou Kuzyk, Jakob Dörr	Parallel Session F A shattered Mirror – Understanding a Rapidly Changing Central Arctic Ocean Chairs: Mats Granskog, Igor Polyakov, Christine Gawinski
13.30	Ocean Acidification Variability in the Northern Barents Sea during Years of Contrasting Sea Ice Conditions Elizabeth Jones	Inputs from Land Drive Complex Coastal Ecosystem Responses: Summarizing 5 Years of Research at Svalbard's Land-Ocean Interface Amanda Poste	Arctic Sea Ice Changes – From Quiet to more Dynamical Regime Jari Haapala
13.45	Hydrography, Inorganic Nutrients and Chlorophyll a Linked to Sea Ice Cover in the Atlantic Water Inflow Region North of Svalbard Angelika Renner	Marine Heat Waves May Contribute to Ecological Change within the Hudson Bay System, Canadian Arctic Zou Zou Kuzy k	Turbulent and double- diffusion heat and nutrients fluxes in the Central Arctic Ocean Achim Randelhoff

	We	ednesday 8 November 20 09.00 – 14.00 The Edge	023
	Parallel Session D	Parallel Session E	Parallel Session F
14.00	Hotspot or Mismatch? – High Spring Productivity across the Barents Sea Polar Front Eva Leu	Local Ice-Meltwater Drives Anticyclonic Circulation and Triggers Under-Ice Phytoplankton Blooms at the Entrance of an Arctic Fjord Eugenio Ruiz-Castillo	Temporal Variability in Ventilation inside the Eurasian Arctic Ocean Lennart Gerke
14.15	Secondary Production at the Polar Front – the Role of <i>Calanus</i> spp. from Near and Far in Barents Sea Pelagic Productivity Sünnje Linnéa Bassedow	Coastal Freshening Drives CO ₂ Dynamics in Greenland Fjords Henry Henson	There and Back again: The Arctic Ocean During the MOSAic Campaign Morven Muilwijk
14.30	Composition and Regulating Mechanisms of Downward Carbon Flux on Arctic Shelves Yasemin Vicdan Bodur	Carbon Dioxide Flow and Acidification Rates at the Outer Shelf-Continental Slope Area of the Kara and Laptev Seas Alexander Polukhin	Turbulent Fluxes at the Ice- Ocean Interface in the Arctic Ocean Zoe Koenig
14.45	The Effect of Ice-Free Summer Conditions on Benthic Food Web Structure and Pelagic- Benthic Coupling Strength in the Barents Sea Amanda Ziegler	Does Terrestrial Runoff Alter Coastal Planktonic Community Structure in the Arctic? Caroline Weber	Hidden in Plain Sight – New Insights on Arctic Sea-Ice Ridges from the MOSAiC Expedition – an Overview Evgenii Salganik
15.00		Coffee	
15.30	Investigating Combined Effects of Climate Change and Fisheries on the Barents Sea Ecosystem Dynamics Elliot Sivel	Biogeography and Connectivity of <i>Calanus</i> Copepods in the Arctic Ocean and its Peripheral Areas Gerald Darnis	The Variable Impact of Storms on the Surface Marine Biogeochemistry during the Onset of Freeze-Up in the Central Arctic Ocean Elise Droste
15.45	Climate Driven Ecosystem Reorganization and Cumulative Risk in the Arctic Raul Primicerio	Sympagic Carbon Uptake by Benthic Fauna: How Does it Differ between an Inflow and Outflow shelf? Ivan Cautain	Contrasting Chemistry in the Central Arctic Ocean in a Pan- Arctic and Climate Change Perspective Agneta Fransson
16.00	Annual Replacement of Zooplankton Species in a Shallow Flow-Through Sea Carin Ashjian	Epibenthic Communities in Northeast Greenland: Taxonomic, Functional, and Trophic Structure Phoebe Armitage	Physical and Biological Observations from Ice- Tethered Observatories (ITOs) in the Arctic Malin Daase
16.15	The Pacific Arctic: A Key Gateway Undergoing Ecosystem Changes with Climate Warming Jackie Grebmeier	Exploring the Ecomorphology of Fishes from Northeast Greenland: Implications on Resource Use and Feeding Competition Laura Ghigliotti	Status update of deep Arctic Ocean habitats and species diversity Bodil Bluhm
16.30		Poster Sessions	

	Thursday 9 November 2023
	09.00 – 14.15
	The Edge
	Plenary: "Future Arctic Ocean"
	Chairs: Céline Heuzé & Andreas Altenburger
09.00	The future Arctic sea ice: Key drivers and regional variabilities
	Marius Årthun (University of Bergen, Norway)
09.30	Turning Science into use – Where do we stand?
09.30	Marianne Kroglund (Norwegian Environment Agency, Norway)
	Plenary: "Future Arctic Ocean"
	Chairs: Marius Årthun, Céline Heuzé, Martí Amargant Arumí & Natalie Summers
10.00	Assessing the Spread of Atlantic Water layer Temperature and Salinity in the Arctic Ocean in
	CMIP6 Model Ensemble Members
	Marion Devilliers (Danish Meteorological Institute, Denmark)
10.15	Climate-Change Driven Terrigenous Inputs Decrease the Efficiency of the Futur Arctic Ocean's
	Carbon Storage
	Laurent Oziel (Alfred Wegener Institute, Germany)
10.30	Coffee
10.30	Conee
11.00	Present and Future Influence of Ocean Heat Transport on Winter Arctic Sea-Ice Variability
	Jakob Dörr (University of Bergen, Norway)
11.15	How can Functional Groups be Affected by Low and High Carbon Emission Scenarios in the
	Barents Sea? Marcela Nascimento (GEOMAR, Germany)
	Marcela Nascinento (OLOMAN, Germany)
11.30	Integrative Studies for Assessing Diversity, Distributions, Trophic Role and Range Shifts of
	Jellyfish in Tomorrow's Arctic Ocean Charlotte Havermans (Alfred Wegener Institute, Germany)
	Chanotte navernians (Airred Wegener Institute, Germany)
11.45	An Observing System that Serves Society's needs in a Future Arctic
	Michael Karcher (Alfred Wegener Institute, Germany)
	Perspectives & Closing
12.00	The Nansen Legacy project
12.30	Lunch
42.20	Side Event "From Observation to Adaptation"
13.30	Organized by Nansen Legacy in collaboration with the EU project Arctic Passion With support from the Norwegian Arctic Council chairmanship
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