

## List of Poster Presentations

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### S1 - Paleo-Ecology of Subarctic and Arctic Seas

- S1-P1:** *Neogene fishes of the Sakhalin Island (Eastern Russia) as predecessors of the modern deep-water fish fauna of the North Pacific*  
**Mikhail Nazarkin**
- S1-P2:** *Hydrographic changes in the subpolar North Atlantic at the Medieval Climate Anomaly (MCA) to Little Ice Age (LIA) transition inferred from fossil diatoms*  
**Dmitry V. Divine**, Arto Miettinen, Katrine Husum, and Nalan Koc.
- S1-P3:** *Diatom-inferred ocean surface conditions on the SE Greenland shelf during the last millennium*  
**Arto Miettinen**, Dmitry V. Divine, Katrine Husum, Nalan Koç, and Anne Jennings
- S1-P4:** *Evaluation of sea surface temperature reconstructions based on Uk'37 from surface samples of the subarctic Pacific*  
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### S2 - Advection and mixing and their ecosystem impacts

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**Maki Noguchi Aita**, Minoru Kitamura, Toru Kobari, Ichiro Tayasu, Chikage Yoshimizu, Kazuaki Tadokoro, Jun Nishioka, and Naomi Harada
- S2-P2:** *Study of missing nutrients sources in the oligotrophic ocean based on time-series biogeochemical/ physical/meteorological observations in subtropical regions*  
**Makio C. Honda**, Eko Siswanto, Yoshikazu Sasai, Akira K. Yoshida, and Meghan Cronin
- S2-P3:** *Advection of shelf materials in settling particles off the Barrow Canyon, western Arctic Ocean*  
**Jonaotaro Onodera**, Eiji Watanabe, Kohei Mizobata, Yuichiro Tanaka, Kazumasa Oguri, and Naomi Harada
- S2-P4:** *Inter-annual variability in Atlantic Water advection in the Kongsfjorden Transect*  
**Vigdis Tverberg**, Ragnheid Skogseth, Finlo Cottier, Arild Sundfjord, Waldemar Walczowski, Mark Inall, Eva Falck, Olga Pavlova, Frank Nilsen, and Else Nøst Hegseth

**S2-P5:** *The Atlantic Water boundary current north of Svalbard; seasonality, vertical fluxes and effect on local sea ice cover*

A. Sundfjord, **A. H. H. Renner**, M. Janout, R. Ingvaldsen, A. Beszczynska-Möller, R. S. Pickart, M. D. Pérez-Hernández

**S3 - Timing/phenology and match-mismatch: are they critical issues?**

**S3-P1:** *Pan-Arctic distribution of the sympagic amphipod *Apherusa glacialis* elucidates life cycle characteristics*

Erin Kunisch, **Bodil A. Bluhm**, Rolf Gradigner, Haakon Hop, Øystein Varpe, Jørgen Berge, Malin Daase, Carolin Arndt, Gerald Darnis, Liza Ershova, Hauke Flores, Bjørn Gulliksen, Elisabeth Halvorsen, Russ Hopcoft, Slavek Kwasniewski, Ole Jørgen Lønne, Igor A. Melnikov, Mikko Vihtakari, Jan Marcin Weslawski, W. Walkusz, and Iris Werner

**S3-P2:** *Climate effects on phytoplankton blooms in the Barents Sea*

**Kaixing Dong**, Kristina Ø. Kvile, and Leif Chr. Stige

**S3-P3:** *Mesozooplankton are not herbivores: The importance of microzooplankton in mesozooplankton diets and in Arctic and Subarctic trophic linkages*

Robert G. Campbell, **Carin J. Ashjian**, Evelyn B. Sherr, Barry F. Sherr

**S4 - Shifting habitats, persistent hot spots, and the distribution of benthos, plankton, fish, seabirds and marine mammals - observations, models, mechanisms and effects**

**S4-P1:** *Age and growth estimates of the invasive red king crab in Norwegian waters*

**Bodil A. Bluhm**, Raouf Kilada, Will Ambrose, Paul E. Renaud, Bill Locke, and Jan Sundet

**S4-P2:** *Modeling the sympagic-pelagic-benthic coupling processes in the St. Lawrence Island Polynya region, northern Bering Sea*

Zhixuan Feng, Rubao Ji, **Carin J. Ashjian**, Jinlun Zhang, Robert G. Campbell, and Jacqueline

**S5 - Future Subarctic and Arctic Marine Ecosystems under Climate Change**

**S5-P1:** *The potential effects of petroleum activities and warmer water on the reproductive success of polar cod (*Boreogadus saida*)*

**Morgan Lizabeth Bender**, Jasmine Nahrgang, Marianne Frantzen, Maxime Geoffroy, and James Meador

**S5-P2:** *ARctic Marine Resources under Climate Change: Environmental, Socio-Economic Perspectives and Governance (ARC-Change)*

**Angelika H. H. Renner**, Sturla Kvamsdal, Nils Arne Ekerhovd, Alf Håkon Hoel, Bjarte Bogstad, Cecilie Hansen, Geir Odd Johansen, Anne Britt Sandø, and Jan Erik Stiansen

**S5-P3: *Arctic Ocean ecosystems: Applied technology, Biological interactions and Consequences in an era of abrupt climate change (Arctic ABC)***

Jørgen Berge, **Bodil Bluhm**, Ingrid Ellingsen, Maxime Geoffroy, Daniel Vogedes, Rahman Mankettikkara, Finlo Cottier, Shane Rodwell, Bernard Hagan, Philip Anderson, Asgeir J. Sørensen, Geir Johnsen, Sturla Haltbakk, Artur Zolich, and Pedro De La Torre

**S5-P4: *Geographic distribution of climate change research in the Nordic seas***

**Sofia A. Ferreira**, A. Kokkalis, M.W. Pedersen, G. Romagnoni, H. Bardarson, S. Bonanomi, W.J. Boonstra, W. Butler, F.K. Diekert, N. Fouzai, M. Holma, R.E. Holt, K.Ø. Kvile, E. Nieminen, K.M. Ottosen, A. Richter, L. Rogers, M. Snickars, A. Törnroos, B. Weigel, J.D. Whittington, P. Woods and J. Yletyinen

## **S6-Multiple Stressors**

**S6-P1: *Potential risks from microplastics in a warming Arctic***

**Claudia Halsband**, Dorte Herzke, Geir W. Gabrielsen, and Jan H. Sundet

**S6-P2: *Impacts of environment changes on walleye pollock in the East Sea***

Chan Joo Jang, **Minkyung Bang**, Sukyung Kang, and Suam Kim

**S6-P3: *The CoArc Project: Energy flow, production, and sensitivity of marine ecosystems in a sea of change***

**Paul E Renaud**, Alida Bundy, Mariano Koen-Alonso, Ulf Lindstrøm, Pierre Pepin, Raul Primicerio, Torstein Pedersen, Garry Stenson, Fran Mowbray, Magnus Aune, Hugues Blanchet, Elena Eriksen, Nina Mikkelsen, Jørgen Berge, and Jamie Tam

## **S7 - Ocean Acidification**

**S7-P1: *Winter-to-spring evolution of Arctic Ocean acidification state in under-ice water and effect of sea-ice processes during N-ICE2015 ice drift project***

**Agneta Fransson**, Melissa Chierici, Philipp Assmy, Paul Dodd, Mar Fernández-Méndez, Mats Granskog, Amelie Meyer, Daiki Nomura, Anja Rösel, Anna Silyakova, and Harald Steen

**S7-P2: *Seasonal change in ocean acidification state in Kongsfjorden, with implications for calcifying organisms***

**Agneta Fransson**, Melissa Chierici, Haakon Hop, Helen S. Findlay, Svein Kristiansen, and Anette Wold

**S7-P3: *The interactive effects of changes in CO<sub>2</sub> exposure and food quality on the growth and lipid composition of Pacific cod (*Gadus macrocephalus*) larvae***

**Louise Copeman**, Thomas Hurst, Scott Haines, Summer Meredith and Kalyn Hubbard

**S7-P4: *Effects of parental acclimation to end-of-century ocean acidification on survival in cod larvae (*Gadus morhua*)***

Martina H Stiasny, Felix H Mittermayer, Michael Sswat, Melissa Chierici, Atle Mortensen, Velmurugu Puvanendran, Thorsten B. Reusch, and Catriona Clemmesen

**S7-P5: *Atlantic cod larvae (Gadus morhua) grow faster under ocean acidification – but is that good news?***

Martina H. Stiasny, Michael Sswat, Felix H. Mittermayer, Nalani K. Schnell, Inger-Britt Falk-Petersen, Thorsten Reusch, and Catriona Clemmesen

**S7-P6: *Micro-computed tomography: Applications for high-resolution skeletal density and calcification rate determinations. An example using annually-resolved crustose coralline algae***

Phoebe Chan

**S7-P7: *Interannual and interseasonal pH and CO<sub>2</sub> variability Subarctic and Arctic Norwegian surface waters***

Marit Norli, Andrew L. King, Kai Sørensen, Emanuele Reggiani, Pierre Jaccard, Philip Wallhead, Richard G J Bellerby

## **S8 – Science, Policy and Management**

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Jamie C Tam, Alida Bundy, Mariano Koen-Alonso, Fran Mowbray, Pierre Pepin, and Garry Stenson

**S8-P2: *The future Barents Sea, get ready!***

Benjamin Planque, Christian Mullon, Per Arneberg, Arne Eide, Jean-Marc Fromentin, Sheila Heymans, Alf Håkon Hoel, Susa Niiranen, Geir Ottersen, Anne Britt Sandø, Martin Sommerkorn, Knut Sunannå, Olivier Thebaud, and Thorbjørn Thorvik

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Amanda Poste, Guttorm Christensen, Paul Renaud, Anders Ruus, Pernilla Carlsson, Katrine Borgå, Michael Arts, Ken Dunton, Janne Søreide, and Øystein Varpe

**S9-P2: *INTAROS - Integrated Arctic Observation System - a new EU Horizon 2020 Research and Innovation project***

Geir Ottersen and Stein Sandven

**S9-P3: *Comparison of UV radiation and CDOM in the Chukchi and East Siberian seas in the Arctic***

Sun-Yong Ha, Bo-Yeon Lee, Eun Jin Yang and Sung-Ho Kang

- S9-P4:** *The Use of Satellite Imagery in Subarctic and Arctic Ecosystem Research: 2018 ESSAS Annual Science Meeting*  
Ken Drinkwater, Franz Mueter, and Sei-Ichi Saitoh
- S9-P5:** *IMBeR: Integrated Marine Biosphere Research*  
 Gro I van der Meeren and Lisa Maddison
- S9-P6:** *AMBON – the Arctic Marine Biodiversity Observing Network in a global context*  
 Katrin Iken, Jacqueline Grebmeier, Seth Danielson, Russ Hopcroft, Lee Cooper, Franz Mueter, Kathy Kuletz, Kate Stafford, R. Eric Collins, Sue Moore, Bodil A. Bluhm, and Robert Bochenek
- S9-P7:** *Implication of animal personality and movement ecology in resource use of migratory and resident juvenile Atlantic cod (Gadus morhua)*  
Guðbjörg Ásta Ólafsdóttir
- S9-P8:** *North Pacific Research Board Arctic Program – Research in the northern Bering and Chukchi seas (2017-2021)*  
Matthew Baker, Danielle Dickson, and Betsy Baker
- S9-P9:** *BLING, a novel biogeochemical module for NEMO ocean model, suitable for long-term simulation of ocean primary productivity and gas exchanges*  
Laura Castro de la Guardia, Mariona Claret, Xianmin Hu, Paul G. Myers, Eric D. Galbraith
- S9-P10:** *Windows in Arctic sea ice: light transmission and ice algal response in a refrozen lead*  
H. M. Kauko, P. Assmy, T. Taskjelle, A. K. Pavlov, C. J. Mundy, P. Duarte, M. Fernández-Méndez, L. M. Olsen, S. R. Hudson, A. Elliott, I. Peeken, G. Johnsen, F. Wang, and M. A. Granskog

## **WKS2 - Climate change impacts on nearshore fish habitats in the Arctic**

- W2-P1:** *Trophic vulnerability of 0-group Atlantic cod (Gadus morhua) and saithe (Pollachius virens) A case study investigating the juveniles' feeding pattern and identifying valuable nursery habitats in the Icelandic Westfjords*  
Anja Nickel
- W2-P2:** *Overwinter growth and condition of juvenile Atlantic cod (Gadus morhua) in subarctic coastal Newfoundland*  
 Emilie A. Geissinger, Robert S. Gregory, Paul V.R. Snelgrove, and Benjamin J. Laurel

