

24-26 April 2019

Wednesday, April 24, 2019

0900-0915 Registration

0915-0930 Steffen/Michael Welcome and logistics

From Bering Strait to the Overflows

0930-0950 Motoyo Itoh Long term variability of Barrow Canyon fluxes and its impact on sub surface warming in the Canada Basin

0950-1010 P. Dodd Pacific Water Pathways through the Arctic Ocean to Fram Strait

1010-1030 T. Kanzow Update on the Atlantic water circulation on the shelf of East Greenland

1030-1100 Coffee Break

1100-1120 O. Huhn Submarine melting at the 79 North Glacier, northeast Greenland

1120-1140 R. Gelderloos Diagnosing subinertial variability along the East Greenland Shelf

1140-1200 A. Brakstad Tracing overflow water from the origin in the Nordic Seas to the Greenland-Scotland Ridge

1200-1220 St. Semper The emergence of the North Icelandic Jet and its evolution from northeast Iceland to Denmark Strait

1220-1240 St. Jónsson Concerns and uncertainties associated with the calculations of fluxes of water masses, heat and salt in the North Icelandic Irminger Current

1240-1400 Lunch Break

1400-1420 J. Opher Describing and understanding the annual salinity cycle of the Denmark Strait Overflow

1420-1440 M. Almansi Evolution of Denmark Strait Overflow Features

1440-1500 R. Pickart Frontogenesis and variability in Denmark Strait and its impact on overflow water

1500-1520 K. Våge Circulation and water mass transformation in the Iceland Sea in winter 2015-16

From the Atlantic to the Arctic Ocean

1520-1540 B. Berx Variability of the Atlantic Water inflow to the Nordic Seas via the Faroe-Shetland Channel

1540-1610 Coffee Break

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- 1610-1630 C. Herbaut A mechanism for opening of the winter sea ice cover to the north of Svalbard
- 1630-1650 M. Athanase New Hydrographic Measurements of the Upper Arctic Western Eurasian Basin in 2017 Reveal Fresher Mixed Layer and Shallower Warm Layer than 2005–2012 Climatology
- 1650-1710 Z. Koenig A case study: the dynamics of a surface temperature front in the Arctic Ocean

2000

Social dinner

Thursday, April 25, 2019:

Representativeness of ocean observations

- 0900-0940 V. Gouretski To the construction of the Global Ocean Climatologies (INVITED)
- 0940-1020 A. Nguyen Quantifying the impact of subsurface in-situ observations at important Arctic and Nordic Seas gateways on the Arctic Supolar gyre sTateEstimate(INVITED)
- 1020-1040 B. Hansen Combining satellite altimetry and in situ observations to monitor transports of volume, heat, and salt in the Faroe Current
- 1040-1110 Coffee Break*
- 1110-1130 B. Rabe MOSAiC: the role of small and (sub)mesoscale processes in observational scales (Remote presentation)
- 1130-1150 T. Eldevik How Atlantic heat makes Arctic sea ice retreat

Fluxes and Budgets

- 1210-1230 M. Mayer An improved estimate of the coupled Arctic energy budget
- 1230-1400 Lunch Break*
- 1400-1420 M. Horn Freshwater fluxes and variability in the Arctic Ocean and subarctic North Atlantic
- 1440-1500 R. F. Franco Multi-model comparison of Arctic freshwater volume and exports from PRIMAVERA models historical simulations
- 1500-1520 P. Myers Arctic Gateway Transport and Sensitivity in the ANHA NEMO Configuration
- 1520-1540 Q. Wang Attributing the variation of Arctic-midlatitude oceanic transports
- 1540-1610 Coffee Break*
- 1610-1630 T. Tsubouchi Increased ocean heat transport towards the Arctic Mediterranean 1993-2016

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Discussing the flux calculations controversy (Moderator: Tom)

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| 1630-1640 | T. Tsubouchi | Reference values: what changes by changing reference values? |
| 1640-1650 | Sh. Bacon | No need for arbitrary reference values? |
| 1650-1700 | U. Schauer | Freshwater in the ocean is not a useful parameter in climate research |
| 1700-1800 | all | Open discussion on Freshwater flux calculations |

19:00 "Meet the Vikings" at the National Museum

Friday, April 26, 2019

ASOF issues

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| 0900-1050 | all | Discussion on ASOF Topics: planned activities, new proposals, ASOF meeting format (Chair: Michael) |
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1050-1120 Coffee Break

Ocean-Sea Ice interaction

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| 1120-1140 | Ø. Skagseth | The Barents Sea cooler in a warming ocean |
| 1140-1200 | E. Efstathiou | The dominant spatial patterns of Barents Sea ice variance and retreat. |
| 1200-1220 | S. Gani | Insights from 1-D modelling of winter Arctic sea-ice observations: sensitivity studies and snow-ice formation. |
| 1220-1240 | E. Boles | Under-ice phytoplankton blooms in the central Arctic Ocean: Insights from the first biogeochemical IAOOS platform drift in 2017 |

1240 Adjourn