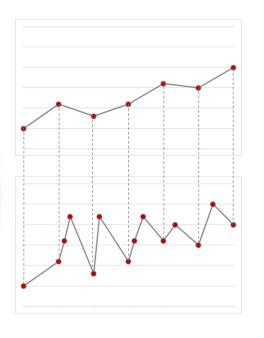
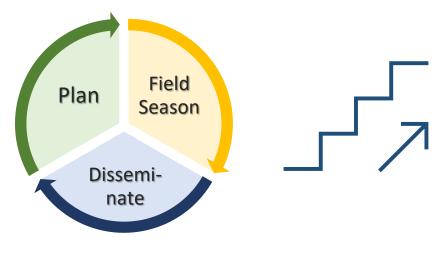


Overview – what is the A-DBO?









Collaborative framework
- leverage our
scientific outcomes

Ocean Ecosystem focus
- multidisciplinary
efforts to decipher its
functioning

Joint efforts at Key Sites
- increase sampling
frequency and
number of parameters

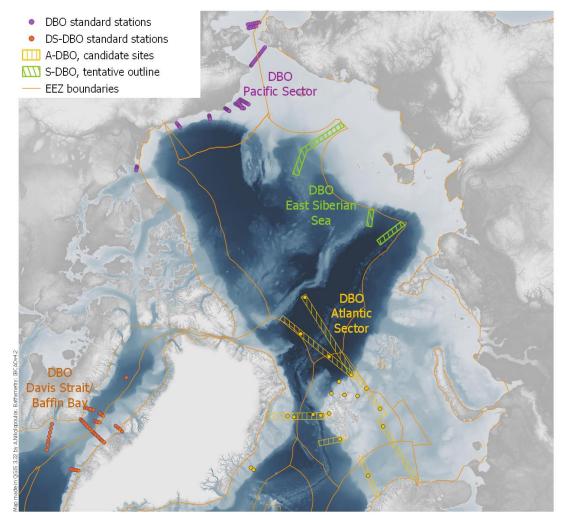
Continuity
- bridge over short-term
and long-term efforts

Advancement
- increase observational capacity, improve Info&Data flow



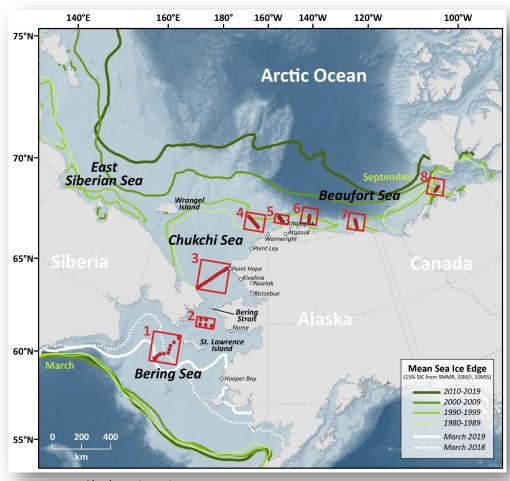
Overview – what is the A-DBO?

A-DBO is one of, currently, four DBOs in the Arctic Ocean and covers the Atlantic-Arctic gateways





Background: the pioneering DBO

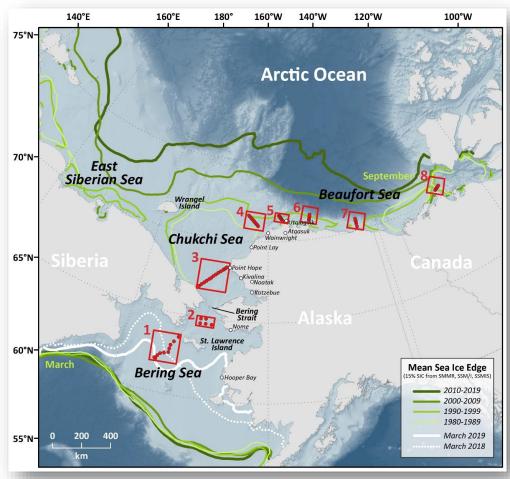


Karen Frey, Clark University

"There is a need for bridging and expanding ongoing observational efforts to improve the sampling frequency, gain continuity, and optimize the scientific outcomes."



Background: the pioneering DBO



[Karen Frey, Clark University]

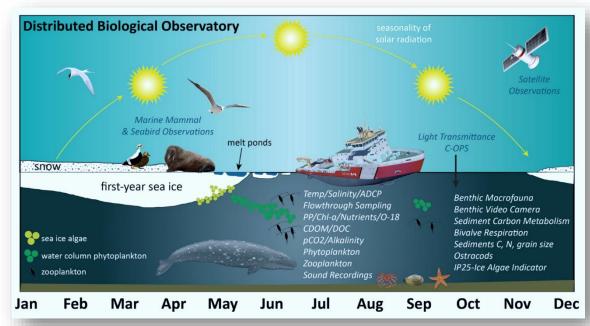
The Pacific Distributed Biological Observatory:

- An organizing framework for consistent, ship-based biophysical sampling in the Pacific Arctic region
- Dedicated stations along eight transect lines
- Sampling regions centered on locations of high productivity, high biodiversity and high rates of biological change: "A change-detection array"
- Endorsed by the Pacific Arctic Group (PAG) in 2010



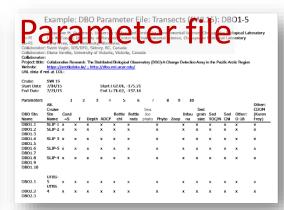
Background: the DBO concept

"Harmonize the sampling activities to strengthen the scientific output"



From Grebmeier et al., 2019: https://doi.org/10.1016/j.dsr2.2019.05.005

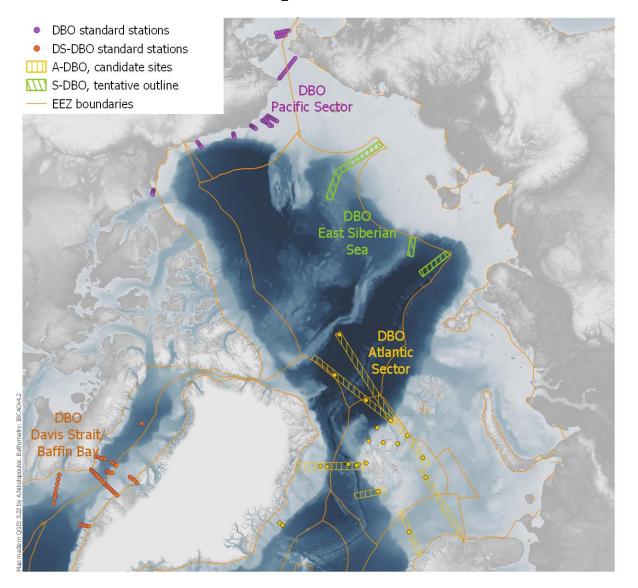






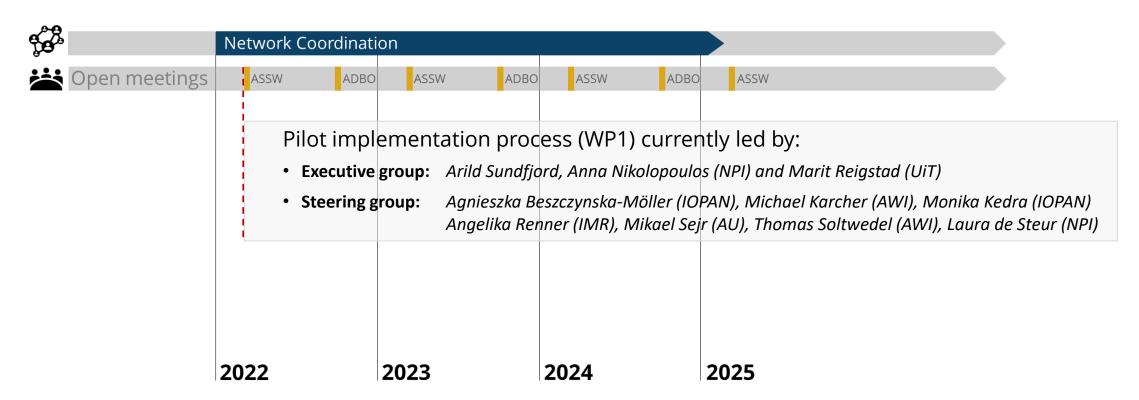
State of the Pacific Arctic Marine Environment (PARMA)







Coordination capabilities secured by the EU Horizon project Arctic PASSION for 2022-2025





Update the geographical aspects based on earlier work, and planned future activity





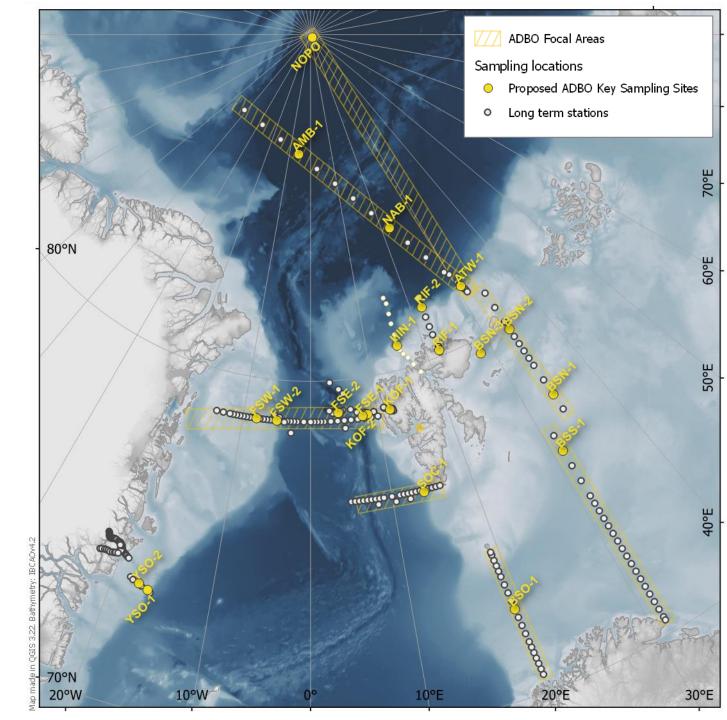
A-DBO key sites

Proposed geographical elements of the Atlantic-Arctic Distributed Observatory:

Focal Areas and Key sampling sites

- Better balance between disciplines
 - Key locations for collaborative sampling
- Coordination of efforts
 - Joint and open planning, better use and sharing of infrastructure
- Harmonization of routines
 - Quick sharing of metadata, common routines for data processing, sharing and handling
- Recurrent joint assessments
 - Strengthened links between long-term mandates and short-term efforts





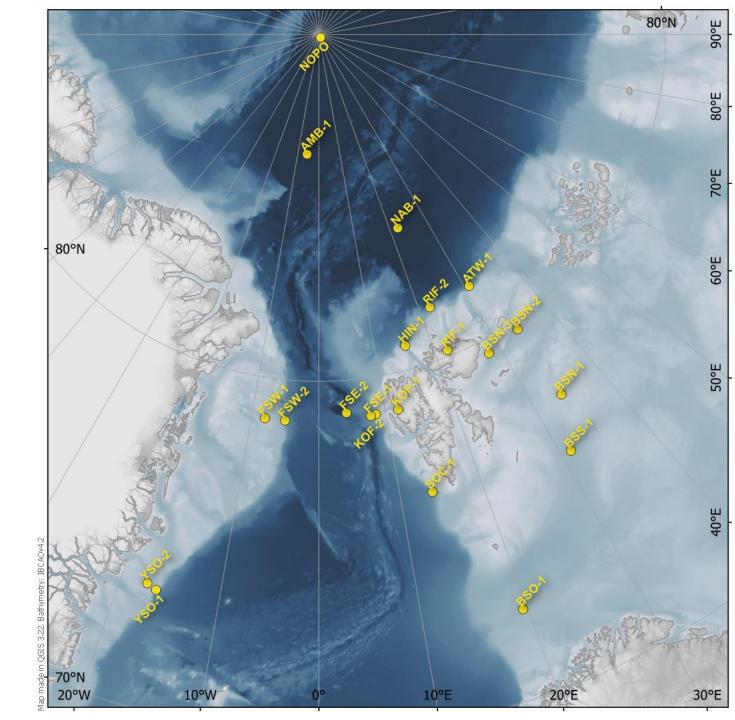
A-DBO key sites

Proposed geographical elements of the Atlantic-Arctic Distributed Observatory:

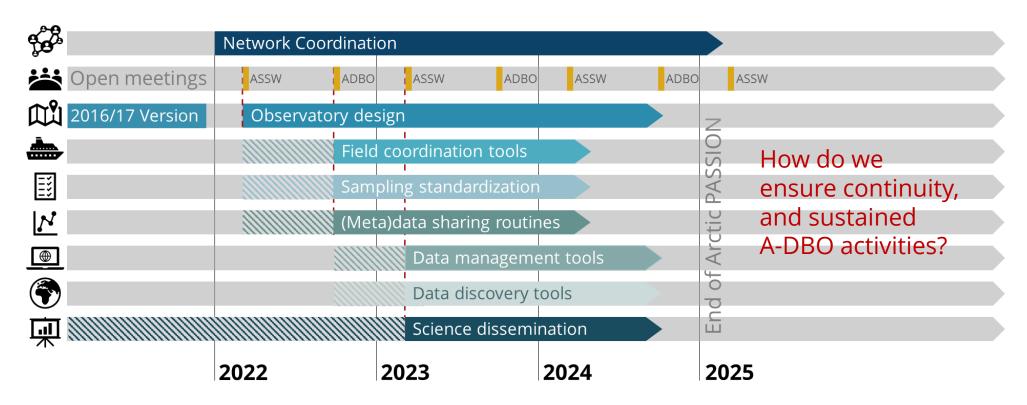
Focal Areas and Key sampling sites

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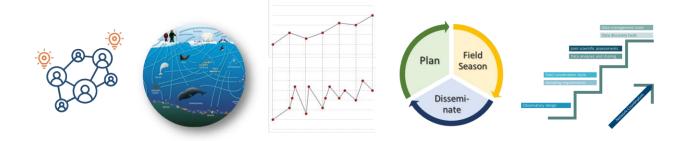
Agree on the remaining DBO components as well. Make use of existing practices and tools!





Upcoming events: Autumn meeting





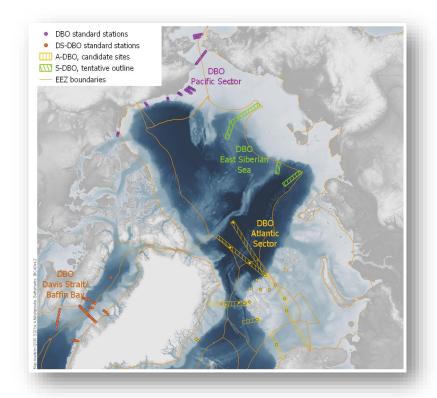
- Reports from the 2023 field season (register talks until 20 Oct!)
- Exchange of information about 2024/25 plans
- Workshop on the first impressions of the 2023 conditions
- Discussions, and decisions, about our metadata practices
- Orientation on parallel pan-Arctic system efforts

Presentations: hybrid, workshops: in-person

More information and link to registration: arcticpassion.eu/adbo/



Upcoming events: ASSW 2024



Pan-Arctic DBO Community meeting:

Date TBD, follow the updates on

→ <u>assw.info/program/business-and-community-meetings</u>





Thank you for your attention!

arcticpassion.eu/adbo/

