

# ASSW2025 Joint Community meeting for the pan-Arctic network of Distributed Biological Observatories (DBOs)

Sunday 23 March 2025, 08:30-17:30 MDT (UTC-6h)

Glen Miller Ballroom in UMC – 208 | Open Session - HYBRID

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## Meeting description

The Distributed Biological Observatory (DBO) is developed to document ecosystem responses to ongoing environmental changes observed in the Arctic, by providing a framework for standard sampling of physical, chemical and biological measurements over time. The concept has recently expanded into a pan-Arctic DBO network, with sites identified in the Pacific, Atlantic, and Canadian Arctic, and the Siberian seas. This international initiative builds on the active involvement of scientists in long-term, multi-disciplinary, regional efforts with the goal to improve our understanding of the processes impacting the coupled marine ecosystem in times of rapid change.

The ASSW provides the arena for the annual exchange of scientific results and organizational matters of the pan-Arctic DBOs, both as regional entities and in a joint pan-Arctic sense. We invite you to a full-day workshop for presentations of the scientific activities undertaken in 2024, identifying the most prominent results in each sector. We also make room for general discussions on common priorities and opportunities for our future in situ sampling activities and data assessments, and how to connect these to other parallel observing programs and organizational processes.

## Meeting Organizers:

*Pacific Arctic DBO: Jacqueline Grebmeier (UMCES)*

*Siberian DBO: Igor Polyakov and Laura Whitmore (IARC/UAF), Eun Jin Yang (KOPRI)*

*Atlantic Arctic DBO: Anna Nikolopoulos\* and Marit Reigstad (UiT), Arild Sundfjord (NPI)*

*Baffin Bay/Davis Strait DBO: Craig Lee (APL/UW), Kumiko Azetsu-Scott (DFO)*

*\*Main contact person for meeting logistics*

## Agenda *all hours in MDT (UTC-6h)*

### 08:30 – 10:00 Part I – Presentations

*The current landscape of Distributed Biological Observatories (DBOs)*

08:30 **Opening of meeting**

08:40 **Jackie Grebmeier, UMCES:** the pan-Arctic network of DBOs

09:00 **Overview talks from the four regional DBOs:**

: **Jackie Grebmeier, UMCES:** Pacific DBO

: **Jinyoung Jung, KOPRI:** Siberian DBO

: **Anna Nikolopoulos, UiT:** Atlantic DBO

10:00 **Kumiko Azetsu-Scott, DFO:** Baffin Bay/Davis Strait DBO

*Coffee Break*

### 10:30 – 12:00 Part II – Presentations

*Science talks highlighting pan-Arctic applications, assessments, and collaborative efforts, serving as 'food for thought' for our afternoon discussions.*

10:30 **Heidi Ahonen, NPI:** Pan-Arctic Passive acoustic monitoring

10:45 **Monika Kedra, IOPAN:** The role of benthos in the DBO ecosystems

11:00 **Natalie Monacci, UAF (J.Grebmeier):** Ocean Acidification within the DBOs

11:15 **Lee Cooper, UMCES:** Two ongoing syntheses - freshwater balance and nutrient fluxes

11:30 **Shigeto Nishini, JAMSTEC:** Integrated Central Arctic Ocean assessments

11:45 **Craig Lee, APL-UW:** Offshore technology for pan-Arctic DBO applications

*Lunch Break*

### 13:30 – 17:00 Part III: Discussions

*Inspired by the morning presentations, we discuss the role and impact of our pan-Arctic network of Distributed Biological Observatories.*

*This session will be open and flexible, allowing for brainstorming and dynamic discussions around the following themes. We may also break out into smaller groups as needed.*

#### **Research priorities and Harmonization**

*What primary research questions can our network most effectively tackle?*

*How can our methods and perspectives be harmonized to address these questions?*

#### **Engagement and Collaboration**

*Are there regional DBO initiatives we could expand to the pan-Arctic context?*

*How do we engage more with coastal communities and early career scientists?*

#### **Connecting and Supporting Parallel Initiatives**

*How can we best connect to and support parallel initiatives, both around the coastal margins and in the Central Arctic Ocean?*

*What are the means to improve communication and data sharing between initiatives?*

*Coffee Break (15:30-16:00)*

#### **The way forward for our pan-Arctic network**

*Are collaborative tasks and joint work groups key to achieving impactful outcomes?*

*Can we establish dedicated teams for specific short-term and long-term goals?*

### ca.17:00 Closing remarks and future milestones

*Our to-do list until next ASSW*

### ca.17:30 End of meeting