**5th DBO Data Meeting Final Agenda**

**January 22-23, 2020, NOAA/PMEL, Seattle, WA, USA**

**January 22, 2020 – Wednesday (0800 – van transport from Silver Cloud Hotel to PMEL for check-in)**

0900 **Welcome and Logistics:** **Jessica Cross, PMEL/NOAA**

0910 **1. Meeting Objectives and Overview of the DBO (Jackie Grebmeier)**

0920 **2. Highlights of DBO 2010-2019 data time series** (~5-10 min presentations max from each speaker; more composite time if a group talk (e.g. Upper trophics); **(BOLD is discussion Lead)**

Remote sensing, hydrography and moorings **(Phyllis Stabeno)**

* Optical, biogeochemical, and satellite remote sensing observations across the DBO (Karen Frey)
* Satellite-detected fall phytoplankton blooms in the DBO regions (Hisatomo Waga)
* Physical oceanography/moorings
  + DBO1 results from M8 (Phyllis Stabeno)
  + What's new in the Bering Strait (Rebecca Woodgate)
  + The Atlantic water boundary current from repeat DBO6 occupations (Robert Pickart)
  + DBO8-Cape Bathurst (Bill Williams)
  + Japanese activities for DBO: hydrography and moorings (Shigeto Nishino)

10:30 Coffee Break

1100 Hydrography **(Jessica Cross)**

* Hydrography results from recent July DBO cruises aboard the CCGS Sir Wilfrid Laurier

(Sarah Zimmerman)

* Oxygen-18 as a water mass tracer in the Pacific Arctic (Lee Cooper)
* Flow through system results from the CCGS Sir Wilfrid Laurier DBO cruises (John Nelson)

11:30 **Continue Highlight Presentations: Export Fluxes, Lower and Upper Trophic levels (Jackie Grebmeier)**

* Annual cycles of export fluxes of biogenic matter in the Bering and Chukchi Seas (Catherine Lalande)
* Lower trophics
* Phytoplankton community structure and satellite-based sea ice melt pond observations across the Distributed Biological Observatory (DBO) (Luisa Young)
* Harmful algal blooms in the Bering, Chukchi, and Beaufort Seas in 2018 and 2019 (Don Anderson/Robert Pickart)
* Exploring the production, contributions and utilization of sea ice algae in DBO using IP25 and other lipid biomarkers (Chelsea Wegner)
* Time series benthic biomass and composition in the DBO regions (Jackie Grebmeier)

1220 **Lunch (NOAA Cafeteria, no host)**

1330 **Continue Highlight Presentations**

* Lower trophics **(Jackie Grebmeier)**
* Sediment oxygen consumption in the Pacific Arctic: Impacts of increased temperature and food supply on the benthic community and individual dominant organisms (Christina Goethel)
* The fate of cold-water carbonate: the scale of time averaging of molluscan aragonite on the productive Alaskan Arctic shelf (Caitlin Meadows)

1350 Upper trophics **(Catherine Berchok)**

* + Catherine Berchok, Libby Logerwell, Janet Clark) et al. (Catherine Berchok**)**
  + Seabird sampling in the DBO regions (Kathy Kuletz by Jackie Grebmeier)

1440 **3. Connection to societal issues and coastal observing** (**Jackie Grebmeier)**

* Linking coupled human and natural systems approaches with the Distributed Biological Observatory (Kelly Kapsar)

1500 Coffee break

1530 **4. Status of efforts for pan-Arctic DBO** (Atlantic, Beaufort Sea, Baffin Bay) **(Jackie** **Grebmeier)**

* Atlantic DBO and connection to Nansen Legacy project (Bodil Bluhm UiT)
* Canadian Beaufort Sea Marine Ecosystem Assessment (CBS-MEA): ship-based and mooring trophic studies on DBO8 (Christie Morrison, Andrea Niemi, Andrew Majewski)
* NTRAIN (2019-2022)-Nutrient transports and living marine resources across the Inuit Nunangat updates (Jean-Éric Tremblayet al. by Jackie Grebmeier)

1630 Discussion & wrap up

1700 End day and van transport to hotel - **Group Dinner (no host, 7 pm, location Piatti Restaurant in University Village)**

**January 23, 2020 – Thursday (0800-van transport from Silver Cloud Hotel to PMEL)**

0900 **Overview of Day 1 and plan for Day** **2 (Jackie Grebmeier)**

0915 **5. Modeling efforts within the DBO** (**Lee Cooper)**

* Modeling the biological response to changing sea ice and ocean conditions in the Beaufort and Chukchi Seas (Mike Steele)
* Modeling of drivers for persistent DBO hotspots (Zhixuan Zhang by Jackie Grebmeier)

0945 **6. Data access and management**: **National and International Data Access** (**Jackie Grebmeier**)

* DBO data parameters file (Jackie Grebmeier)
* Introduction to the NSF Arctic Data Center (Jeanette Clark)
* NOAA Data Submissions (Eugene Burger)
* Japanese Data Centers, DARWIN and ADS (Shigeto Nishino)

1030 **7.** **Charge to Break-out groups (Jackie Grebmeier)**, **then Coffee break**

1100 **Breakout groups to discuss DBO sampling and data protocols, coordination activities (physical oceanography, hydrography, lower and upper trophics, modeling, future activities) (Jackie** **Grebmeier**)

1230 Lunch (NOAA Cafeteria, no host)

1345 **Brief out from breakout groups and open discussion**

* physical oceanography
* hydrography
* lower trophics
* upper trophics
* modeling

1430 **8. Sustained DBO sampling** **(Jackie Grebmeier)**

* DBO Data Users/Providers community can interface with the Arctic Observing Summit 2020 and SAON (Hajo Eicken)
* DBO as one of Pacific Arctic Group’s core activities (Jackie Grebmeier)
* DBO within the US-IARPC Marine Ecosystem Collaborative Team and planning for next US 5 yr. IARPC plan (Jackie Grebmeier)

1500 Coffee break

1530 **9. 2nd DBO DSR special issue discussions** (Jackie Grebmeier)

1600: **10. Upcoming DBO discussions (Jackie Grebmeier)**

* AGU/ASLO Ocean Sciences Meeting, San Diego, CA, USA-February 2020 (Jackie Grebmeier)
* ISAR-6, SAS session and side meeting, Tokyo, Japan-March 2020 (Shigeto Nishino)
* ASSW2020, Akureyri, Iceland, March 2020 (Jackie Grebmeier)

1615 Action Items & Timeline: future plans, open discussion (Jackie Grebmeier)

1700 End of workshop and van transport to hotel