Distributed Biological Observatory (DBO)

Linking Physics & Biology in the Arctic

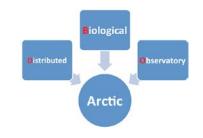
4th DBO Data Workshop

Jacqueline M. Grebmeier

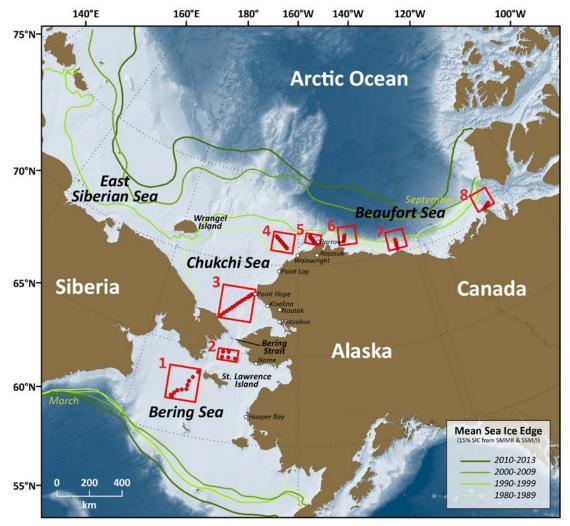
Chesapeake Biological Laboratory
University of Maryland Center for Environmental Science, Solomons, MD, USA

4th DBO Data Workshop November 9, 2017 Seattle, Washington, USA





Linking Physics to Biology: the Distributed Biological Observatory (DBO)



[modified by Karen Frey from Grebmeier et al. 2010, EOS 91]

- DBO sites (red boxes) are regional "hotspot" transect lines and stations located along a latitudinal gradient (DBO1-5) and longitudinally (DBO6-8)
- DBO sites exhibit high productivity, biodiversity, and/or overall rates of change
- DBO sites serve as a change detection array for consistent monitoring of biophysical responses
- Sites occupied by national and international entities with shared data plan

















AGENDA

4th DBO WORKSHOP November 8-9, 2017

PMEL/NOAA, Bldg. 3, Oceanographer Room 7600 Sand Point Way NE, Seattle, Washington, USA WIRELESS username = PAG/DBO; password = \$cience

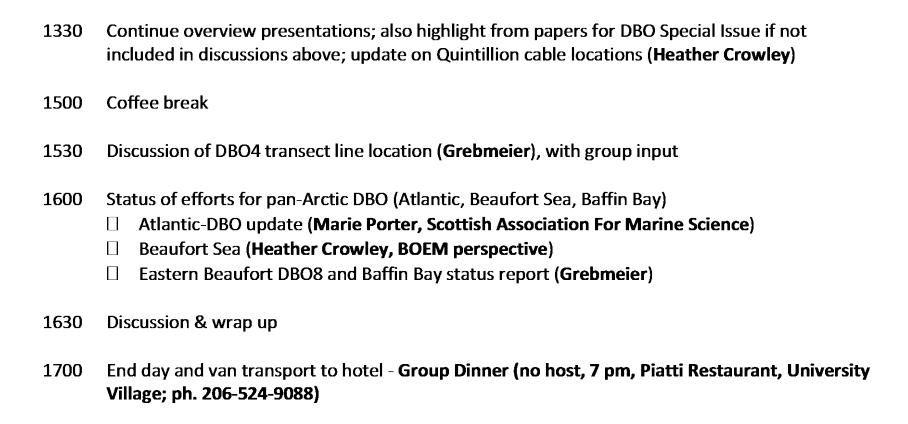
Workshop Overview - We have 3 objectives for this workshop:

- 1. Present results from the 2010-2017 DBO field programs, including summaries from DBO DSR special issue papers
- 2. Develop a conceptual model for the Pacific DBO and discuss ongoing or developing modeling efforts
- 3. Discuss data parameter file and data archiving

November 8, 2017 – Wednesday (0800 – van transport from Silver Cloud Hotel to PMEL)

- 0900 Welcome and Logistics: Sue Moore
- 0910 Meeting Objectives and Overview of the DBO: Jackie Grebmeier
- Highlights of DBO 2010-2017 data time series (~20 min each subsection, so just a 2-5 slides from each speaker (~5 min); **BOLD is discussion Lead**)
 - Remote Sensing: sea Ice, SST, chl-a: Jackie Grebmeier; speaker: Kristin Shake (for Karen Frey, including NASA DBO website and Arctic Report Card)
 - Physical oceanography: **Jackie Grebmeier**; speakers: Leah Trafford McRaven (for Robert Pickart), Seth Danielson, Kyoung-Ho Cho, Phyllis Stabeno
 - Mooring data results: Phyllis Stabeno; speakers: Seth Danielson, Hiroto Abe, Shigeto Nishino, Phyllis Stabeno, Rebecca Woodgate
 - Biochemical oceanography and export production: Jackie Grebmeier; speakers: Jackie Grebmeier (for Lee Cooper), Karina Giesbrecht, Melishia Santiago, Jinyoung Jung, Laura Juranek, Diana Varela
- 10:30 Coffee Break
- 11:00 Continue Highlight Presentations
 - Biological oceanography
 - Lower trophics: Jackie Grebmeier; speakers: Carin Ashjian, Lisa Eisner, John Nelson, Hyoung Sul La, Morgan Busby, Jackie Grebmeier, Monika Kedra, Christina Goethel, Caitlin Meadows
 - O Upper trophics: Catherine Berchok; speakers: Catherine Berchok, Kathy Kuletz
 - Modeling discussion: **Sue Moore**; speakers: Carin Ashjian, Mike Steele
- 1220 **Group Picture**, then Lunch (NOAA Cafeteria, no host)

Day 1 Agenda (cont).



November 9, 2017 – Thursday (0800-van transport from Silver Cloud Hotel to PMEL)		
	0900	Overview of Day 1 and plan for Day 2 (Jackie Grebmeier)
	0915	Modeling efforts within the DBO and development of DBO conceptual model (Sue Moore) ☐ Arctic Marine Pulses conceptual model (Sue Moore) ☐ Other Ideas for DBO conceptual model and/or part of DBO effort?
	1030	Coffee break
	1100	Data access and management: National and International Data Access (Jackie Grebmeier); speakers: Leah Trafford McRaven (Physical oceanography for Bob Pickart), DBO data parameters file (Jackie Grebmeier), NSF Arctic Data Center (Jackie Grebmeier), Canada (C3O, JAMSTEC, KOPRI, PRIC), others?
	1220	Lunch (NOAA Cafeteria, no host)
	1330	Sustained DBO sampling: National & International/Pan-Arctic colleagues DBO within the US-IARPC Marine Ecosystem Collaborative Team (Jackie Grebmeier), DBO and the IASC Marine Working Group Antarctic-Arctic activities (Monika Kedra) Pacific Arctic Regional Marine Assessment (PARMA); Moore and Grebmeier, 2017 Arctic paper (Sue Moore)
	1500	Coffee break
	1530	Update on DBO DSR special issue, 2018 OSM DBO session and MECT town hall meeting, Polar 2018 side meeting: AnT-ERA and DBO (June 17, 2017 in Davos, Switzerland) (Jackie Grebmeier)
	1600	Action Items & Timeline: DBO Special Issue, future plans (Jackie Grebmeier)
	1700	End day and van transport to hotel