

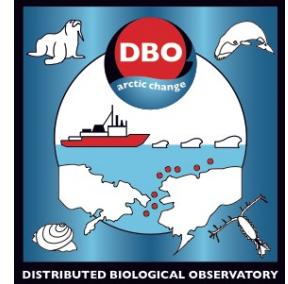
UPDATE: DSR DBO Special Issue

May 2019-Complete

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Pacific Arctic Group
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Arkhangelsk, Russia
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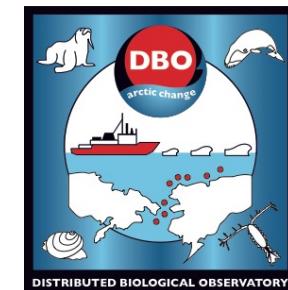


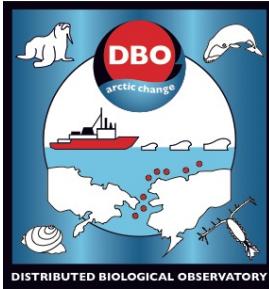
The Distributed Biological Observatory: A Change Detection Array in the Pacific Arctic



[Grebmeier, Moore, Cooper, Frey, 2019]

- Special issue in Deep Sea Research II, Volume xxx; May 2019
- Guest editors: Grebmeier JM, SE Moore, LW Cooper, KE Frey, 2019
- Introductory chapter + 15 papers





Special DSR Issue-The Distributed Biological Observatory: A Change Detection Array in the Pacific Arctic Region

Guest Editors: Jacqueline M. Grebmeier, Sue E. Moore, Lee W Cooper, and Karen E Frey
15 accepted papers+introduction, May 2019-COMPLETE

INTRODUCTION

1. The Distributed Biological Observatory: A Change detection array in the Pacific Arctic region - An Introduction

Jacqueline M. Grebmeier, Sue E. Moore, Lee W Cooper, and Karen E Frey

SEA ICE AND PHYSICAL OCEANOGRAPHY

2. Distributed Biological Observatory Region 1: Physics, chemistry and plankton in the northern Bering Sea

Phyllis J. Stabeno, Shaun W. Bell, Nicholas A. Bond, David G. Kimmel, Calvin W. Mordy, Margaret E. Sullivan

3. The encoding of wind forcing into the Pacific-Arctic pressure head, Chukchi Sea ice retreat and late-summer Barrow Canyon water masses

Stephen Okkonen, Carin Ashjian, Robert G. Campbell, Philip Alatalo

4. Seasonal to mesoscale variability of water masses and atmospheric conditions in Barrow Canyon, Chukchi Sea

Robert S. Pickart, Carolina Nobre, Peigen Lin, Kevin R. Arrigo, Carin J. Ashjian, Catherine Berchok, Lee W. Cooper, Jacqueline M. Grebmeier, Ian Hartwell, Jianfeng He, Motoyo Itoh, Takashi Kikuchig, Shigeto Nishinog, Svein Vagle

5. Pathways, timing, and evolution of Pacific winter water through Barrow Canyon
Emily L. Shroyer, Robert S. Pickart

6. On the nature of wind-forced upwelling in Barrow Canyon

Maria N. Pisareva, Robert S. Pickart, Peigen Lin, Paula S. Fratantoni, Thomas J. Weingartner

7. Characteristics and dynamics of wind-driven upwelling in the Alaskan Beaufort Sea based on six years of mooring data

Peigen Lin, Robert S. Pickart, G.W.K. Moore, Michael A. Spall, Jianyu Hua

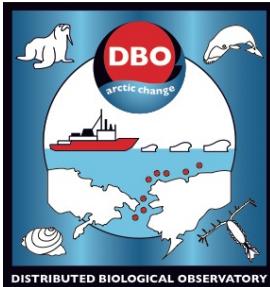
PHYTOPLANKTON AND NUTRIENTS

8. A decade of summertime measurements of phytoplankton biomass, productivity and assemblage composition in the Pacific Arctic region from 2006-2016

K.E. Giesbrecht, D.E. Varela, J. Wiktor, J.M. Grebmeier, B. Kelly, J.E. Long

9. Impact of spatiotemporal variability in phytoplankton size structure on benthic macrofaunal distribution in the Pacific Arctic

Hisatomo Waga, Toru Hirawake, Amane Fujiwara, Jacqueline M. Grebmeier, Sei-Ichi Saitoh



Grebmeier, Moore, Cooper, Frey: DBO DSR Special Issue Manuscript Titles

BENTHOS AND FISH

10. Changes in abundance and biomass of the bivalve *Macoma calcarea* in the northern Bering Sea and the southeastern Chukchi Sea from 1998 to 2014, tracked through dynamic factor analysis models

Christina L. Goethel, Jacqueline M. Grebmeier, Lee W. Cooper

11. Benthic trophic sensitivity to on-going changes in Pacific Arctic seasonal sea ice cover – Insights from the nitrogen isotopic composition of amino acids

Monika Kędra, Lee W. Cooper, Mengjie Zhang, Dana Biasatti, Jacqueline M. Grebmeier

12. High-latitude benthic bivalve biomass and recent climate change: testing the power of live-dead discordance in the Pacific Arctic

Caitlin A. Meadows, Jacqueline M. Grebmeier, Susan M. Kidwell

13. A Video Seafloor Survey of Epibenthic Communities in the Pacific Arctic including Distributed Biological Observatory stations in the Northern Bering and Chukchi Seas

Lee W. Cooper, Marisa L. Guarinello, Jacqueline M. Grebmeier, Alynne Bayard, James Lovvorn, Christopher North, Jason Kolts

14. Developing an observational design for epibenthos and fish assemblages in the Chukchi Sea

Katrin Iken, Franz Mueter, Jacqueline M. Grebmeier, Lee W. Cooper, Seth L. Danielson, Bodil A. Bluhm

MARINE BIRDS AND MAMMALS

15. Representation of the Pacific Arctic seabird community within the Distributed Biological Observatory array, 2007–2015

Kathy J. Kuletz, Daniel Cushing, Erik E. Osnas, Elizabeth A. Labunski, Adrian Gall

16. Marine birds and mammals as ecosystem sentinels in and near Distributed Biological Observatory regions: An abbreviated review of published accounts and recommendations for integration to ocean observatories

Sue E. Moore, Kathy J. Kuletz