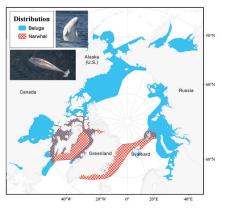
Marine Fisheries REVIEW

W. L. Hobart, Editor J. A. Strader, Managing Editor



On the cover: Circumpolar distribution of belugas and narwhals including summer and winter areas and migratory paths. Top photo: Spyhopping beluga, photographed from shore on Cape Beluzhiy, Solovetskiy Island, White Sea in 2010 (Copyright Bettina van Elk (Netherlands)). Bottom photo: Male narwhal resting at the surface in Dove Bay, Northeast Greenland National Park in 2018 (Copyright Carsten Egevang).



81(3-4), 2019

Articles

Preface

Glossary of Terms, Acronyms, and Abbreviations

Roderick Hobbs, Jill Prewitt, Randall Reeves, and Geneviève Desportes iii

Jill Prewitt, Randall Reeves, and Roderick Hobbs vii

Roderick C. Hobbs, Randall R. Reeves, Jill S. Prewitt, Geneviève Desportes, Kaitlin Breton-Honeyman, Tom Christensen, John J. Citta, Steven H. Ferguson, Kathryn J. Frost, Eva Garde, Maria Gavrilo, Maha Ghazal, Dmitri M. Glazov, Jean-Francois Gosselin, Mike Hammill, Rikke G. Hansen, Lois Harwood, Mads Peter Heide-Jørgensen, Gerald Inglangasuk, Kit M. Kovacs, Vera V. Krasnova, Daria M. Kuznetsova, David S. Lee, Véronique Lesage, Denis I. Litovka, Eline D. Lorenzen, Lloyd F. Lowry, Christian Lydersen, Cory J. D. Matthews, Ilya G. Meschersky, Arnaud Mosnier, Gregory O'Corry-Crowe, Lianne Postma, Lori T. Quakenbush, Olga V. Shpak, Mikkel Skovrind, Robert S. Suydam, and Cortney A. Watt

Contents continued

1

Global Review of the Conservation Status of Monodontid Stocks

U.S. DEPARTMENT OF COMMERCE

Wilbur L. Ross, Jr. Secretary of Commerce

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Neal A. Jacobs, PhD Acting Under Secretary for Oceans and Atmosphere

National Marine Fisheries Service Christopher W. Oliver Assistant Administrator for Fisheries

The Marine Fisheries Review (ISSN 0090-1830) is published quarterly by the Scientific Publications Office, National Marine Fisheries Service, NOAA, 7600 Sand Point Way N.E., Seattle, WA 98115. Annual subscriptions are sold by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. The annual subscription price is \$25.00 domestic, \$35.00 foreign. Single copies are \$9.50 domestic, \$13.30 foreign. New subscriptions may be purchased online at http://bookstore.gpo.gov/ products/sku/703-028-00000-4 or by mail at U.S. Government Printing Office, P.O. Box 979050, St. Louis, MO 63197-9000.

Although the contents of this publication have not been copyrighted and may be reprinted entirely, reference to source is appreciated.

Publication of material from sources outside the NMFS is not an endorsement, and the NMFS is not responsible for the accuracy of facts, views, or opinions of the sources. The Secretary of Commerce has determined that the publication of this periodical is necessary for the transaction of public business required by law of this Department. Use of the funds for printing this periodical has been approved by the Director of the Office of Management and Budget.

The NMFS does not approve, recommend, or endorse any proprietary product or proprietary material mentioned in this publication. No reference shall be made to the NMFS, or to this publication furnished by the NMFS, in any advertising or sales promotion which would indicate or imply that the NMFS approves, recommends, or endorses any proprietary product or proprietary material mentioned herein, or which has as its purpose an intent to cause directly or indirectly the advertised product to be used or purchased because of this NMFS publication. This issue, volume 81 numbers 3–4, was printed and distributed in July 2020.

This publication is available online at http://spo.nmfs.noaa.gov

Distribution, Abundance, Harvest, and Status of Western Alaska Beluga Whale, *Delphinapterus leucas*, Stocks

Structure and Assessment of Beluga Whale, *Delphinapterus leucas*, Populations in the Russian Far East

Patterns of mtDNA Variation in Relation to Currently Recognized Stocks of Beluga Whales, *Delphinapterus leucas*

Aerial Surveys of Bristol Bay Beluga Whales, *Delphinapterus leucas*, in 2016

Narwhal, *Monodon monoceros*, Catch Statistics in Greenland, 1862–2017

Meta-population Modeling of Narwhals, *Monodon monoceros*, in East Canada and West Greenland

Hunt Allocation Modeling for Migrating Animals: The Case of Baffin Bay Narwhal, *Monodon monoceros* Lloyd F. Lowry, John J. Citta, Greg O'Corry-Crowe,, Lori T. Quakenbush, Kathryn J. Frost, Robert Suydam, Roderick C. Hobbs, and Tom Gray 54

Olga V. Shpak, Ilya G. Meschersky, Dmitry M. Glazov, Denis I. Litovka, Daria M. Kuznetsova, and Viatcheslav V. Rozhnov 72

Mikkel Skovrind, Jose Alfredo Samaniego Castruita, Thomas Buur Madsen, Lianne Postma, and Eline D. Lorenzen **87**

John J. Citta, Kathryn J. Frost, and Lori Quakenbush 98

Eva Garde, Rikke Guldborg Hansen, and Mads Peter Heide-Jørgensen 105

Lars Witting, Thomas Doniol-Valcroze, Roderick C. Hobbs, Susanne Ditlevsen, and Mads Peter Heide-Jørgensen 116

Cortney A. Watt, Thomas Doniol-Valcroze, Lars Witting, Roderick C. Hobbs, Rikke Guldborg Hansen, David S. Lee, Marianne Marcoux, Veronique Lesage, Eva Garde, Steven H. Ferguson, and Mads Peter Heide-Jørgensen 125