Marine Fisheries REVIEW



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Articles	SeptOct. 1980, Vol. 42, No. 9-10	
Preface	1	
Introduction: A Scientific Perspective of the Bowhead Whale Problem	m Michael F. Tillman 2	
Historical Whaling and Population Enumeration		
Historical Shore-Based Catch of Bowhead Whales in the Bering, Chukchi, and Beaufort Seas	Willman M. Marquette and John R. Bockstoce 5	
A Preliminary Estimate of the Reduction of the Western Arctic Bowl Whale Population by the Pelagic Whaling Industry: 1848-1915	head John R. Bockstoce 20	
Minimal Historical Size of the Western Arctic Population of Bowhea	d Whales L. L. Eberhardt and J. M. Breiwick 27	
Sampling Strategy for Enumerating the Western Arctic Population of	S the Bowhead WhaleBruce D. Krogman30	
Migration and Distribution		
Spring Migration of the Western Arctic Population of Bowhead Whales	Howard W. Braham, Mark A. Fraker, and Bruce D. Krogman 36	
Migration of Bowhead Whales Past Cape Lisburne, Alaska	David J. Rugh and James C. Cubbage 46	
Vessel Survey for Bowhead Whales in the Bering and Chukchi Seas, June-July 1978	Marilyn Dahlheim, Teresa Bray, and Howard Braham 51	
Summer Distribution of Bowhead Whales in the Eastern Beaufort Se	ea Mark A. Fraker and John R. Bockstoce 57	
Other Bowhead Whale Stocks		
Spitsbergen Bowhead Stock: A Short Review	Randall R. Reeves 65	
Biology and Behavior		
Ingutuk: A Morphological Variant of the	Howard W. Braham, Floyd E. Durham,	

On the cover: Whaling in the Bering Strait and Arctic Ocean. Benjamin Russell lithograph courtesy

Ingutuk: A Morphological Variant of the Bowhead Whale, *Balaena mysticetus*

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Gordon H. Jarrell, and Stephen Leatherwood

70

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External Morphology of Bowhead Fetuses and Calves	Floyd E. Durham	74
Observations of Bowhead Whales During Spring Migration	Geoffry M. Carroll and John R. Smithhisler	80
Sounds Recorded in the Presence of an Adult and Calf Bowhead Whale	D. K. Ljungblad, S. Leatherwood, and M. E. Dahlheim	86
Foods Utilized by Bowhead Whales Near Barter Island, Alaska, Autumn 1979	Lloyd F. Lowry and John J. Burns	88
Some Observations on Urine From a Bowhead Whale	W. Medway	91
Healed Penetrating Injury of a Bowhead Whale	Thomas F. Albert, George Migaki, Harold W. Casey, and L. Michael Philo	92

The Bowhead Whale: Whaling and Biological Research

A Special Issue

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Editors:

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Preface

Bowhead whales, Balaena mysticetus, have been studied for centuries. Alaskan Eskimos studiously observed movements and behavior of bowheads, gaining knowledge that would help them hunt the whales in the shifting ice of spring and the turbulent waters of autumn. In 1848, the Eskimos were joined by outsiders, commercial whalers from the Yankee fleets to the south. Valued by these men for their great quantities of oil and baleen (or whalebone), bowheads were relentlessly pursued and were nearly exterminated. Fortunately, a few Yankee skippers recorded detailed observations, providing us with important information on the species.

In the past decade, scientific study of

the bowhead has burgeoned: In 1972 two scientists were studying the biology and habits of bowheads in the western Arctic Ocean and Bering Sea on a seasonal basis; by 1979 over 50 scientists were searching year-round for answers about this species.

This special issue of *Marine Fisheries Review* presents recent scientific findings, most from original research conducted since 1973. Scientists from western Europe, North America, and the U.S.S.R., as well as native Alaskan Eskimos, were invited to submit papers. Twenty-six authors representing 14 Federal, State, and private institutions responded. Seventeen papers are presented, beginning with an introduction to the problem which precipitated intensive study of the bowhead whale in 1978, followed by discussions of historical whaling, commercial and subsistence, present population enumeration and estimates of the population size at the end of commercial exploitation, migration and distribution, behavior and sounds made by bowheads during migration, and, finally, biology of the bowhead whale. As incomplete a picture as they paint of this species, these papers constitute a significant contribution to our knowledge of the life history of the bowhead whale.

The editors wish to thank each author for cooperation in compiling this issue, as well as the many reviewers who provided needed assistance on short notice; their time is appreciated.

This issue is respectfully dedicated to the memory of Floyd E. Durham who passed away on 23 October 1980. We have lost a dedicated colleague and a good friend.