

# Environmental Assessment of the Alaskan Continental Shelf

Final Reports of Principal Investigators

Volume 1. Biological Studies

Outer Continental Shelf Environmental Assessment Program  
Boulder, Colorado 80302

June 19, 78



U.S. DEPARTMENT OF COMMERCE  
Juanita M. Kreps, Secretary

National Oceanic and Atmospheric Administration  
Richard A. Frank, Administrator

Environmental Research Laboratories  
Wilmot Hess, Director

The facts, conclusions and issues appearing in these reports are based on interim results of an Alaskan environmental studies program managed by the Outer Continental Shelf Environmental Assessment Program (OCSEAP) of the National Oceanic and Atmospheric Administration (NOAA), U.S. Department of Commerce, and primarily funded by the Bureau of Land Management (BLM), U.S. Department of the Interior, through interagency agreement.

#### DISCLAIMER

The Environmental Research Laboratories do not approve, recommend, or endorse any proprietary product or proprietary material mentioned in this publication. No reference shall be made to the Environmental Research Laboratories or to this publication furnished by the Environmental Research Laboratories in any advertising or sales promotion which would indicate or imply that the Environmental Research Laboratories approve, recommend, **or** endorse 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 publication.

CONTENTS

RU #	INVESTIGATOR(S)	AGENCY	TOP I C	PAGE
72	Stanley D. Rice Sid Kern John F. Karinen	Northwest and Alaska Fisheries Center, Auke Bay Laboratory	Lethal and Sublethal Effects on Selected Alaskan Marine Species after Acute and Long-term Exposure to Oil and Oil Components	1
284	Ronald L. Smith Alan C. Paulson John R. Rose	Institute of Marine Science, Fairbanks	Food and Feeding Relationships in the <b>Benthic</b> and Demersal Fishes of the Gulf of Alaska and Bering Sea	33
339	James C. <b>Bartonek</b> Calvin J. Lensink	U.S. Fish and Wildlife Service, Anchorage	A Review of the Literature and a Selected Bibliography of Published and Unpublished Literature on Marine Birds of Alaska	108
353	Donald E. Rogers	Fisheries Res. Inst. , University of Washington, Seattle	Determination and Description of <del>20</del> 5 Knowledge of the Distribution, Abundance, and Timing of <b>Salmonids</b> in the Gulf of Alaska and Bering Sea, A Supplement to the Final Report	205
380	Kenneth D. Waldron Beverly M. Vinter	<b>Natl.</b> Marine Fisheries Service, North- west Fisheries Center, Seattle	<b>Ichthyoplankton</b> of the Eastern Bering Sea	236
426	R. Ted Cooney	Institute of Marine Science, Fairbanks	Environmental Assessment of the Southeastern Bering Sea: Zooplankton and Micronekton	238
502	<b>H.M.</b> Feder Stephen C. Jewett	Institute of Marine Science, Fairbanks	Trawl Survey of the <b>Epifaunal</b> Invertebrates of Norton Sound Southeastern <b>Chukchi</b> Sea, and <b>Kotzebue</b> Sound	338