

Outer Continental Shelf Environmental Assessment Program

Final Reports of Principal Investigators

Volume 39

May 1986



**U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Oceanography and Marine Assessment
Ocean Assessments Division
Alaska Office**



**U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
OCS Study, MMS 86-0031**

"Outer Continental Shelf Environmental Assessment Program Final Reports of Principal Investigators" ("OCSEAP Final Reports") continues the series entitled "Environmental Assessment of the Alaskan Continental Shelf Final Reports of Principal Investigators."

It is suggested that sections of this publication be cited as follows:

Kozo, T. L. 1984. Mesoscale meteorology of the Norton Sound region. U.S. Dep. Commer., NOAA, OCSEAP Final Rep. 39:1-102

Kozo, T. L. 1984. Short term prediction (news casting) of net daily sea ice movement in the Bering Strait with a mesoscale meteorological network. U.S. Dep. of Commer., NOAA, OCSEAP Final Rep. 39:103-160

Kozo, T. L. 1985. Wave hindcast statistics for the Hope Basin, north Chukchi and south Chukchi areas. U.S. Dep. of Commer., NOAA, OCSEAP Final Rep, 39:161-262

Kozo, T. L. 1985. Headland modeling applied to the eastern Beaufort Sea coast. U.S. Dep. of Commer., NOAA, OCSEAP Final Rep. 39:263-312

Kozo, T. L. 1985. Superstructure icing in the north Chukchi, south Chukchi and Hope Basin areas. U.S. Dep. of Commer., NOAA, OCSEAP Final Rep. 39:313-360

OCSEAP Final Reports are published by the U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Ocean Service, Office of Oceanography and Marine Assessment, Ocean Assessments Division, Alaska Office, Anchorage, and primarily funded by the Minerals Management Service, U.S. Department of the Interior, through interagency agreement.

Requests for receipt of OCSEAP Final Reports on a continuing basis should be addressed to:

NOAA-OMA-OAD
Alaska Office
701 C Street
P. O. Box 56
Anchorage, AK 99513

OUTER CONTINENTAL SHELF
ENVIRONMENTAL ASSESSMENT PROGRAM
FINAL REPORTS OF PRINCIPAL INVESTIGATORS

Volume 39

May 1986

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Oceanography and Marine Assessment
Ocean Assessments Division
Alaska Office

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Alaska OCS Region
OCS Study, MMS 86-0031

Anchorage, Alaska

The facts, conclusions, and issues appearing in these reports are based on research results of the Outer Continental Shelf Environmental Assessment Program (OCSEAP), which is managed by the National Oceanic and Atmospheric Administration, U.S. Department of Commerce, and funded (wholly or in part) by the Minerals Management Service, U.S. Department of the Interior, through an Interagency Agreement.

Mention of a commercial company or product does not constitute endorsement by the National Oceanic and Atmospheric Administration. Use for publicity or advertising purposes of information from this publication concerning proprietary products or the tests of such products is not authorized.

Content of these reports has not been altered from that submitted by the Principal Investigators. In some instances, minor grammatical, spelling, and punctuation errors have been corrected to improve readability; some figures, charts, and tables have been enhanced to improve clarity in reproduction.

Outer Continental Shelf Environmental Assessment Program

Final Reports of Principal Investigators

VOLUME 39

MAY 1986

C O N T E N T S

T. L. KOZO: Mesoscale meteorology of the Norton Sound region	1
T. L. KOZO: Short term prediction (newscasting) of net daily sea ice movement in the Bering Strait with a mesoscale meteorological network	103
T. L. KOZO: Wave hindcast statistics for the Hope Basin, north Chukchi and south Chukchi areas	161
T. L. KOZO: Headland modeling applied to the eastern Beaufort Seacoast	263
T. L. KOZO: Superstructure icing in the north Chukchi, south Chukchi and Hope Basin areas	313