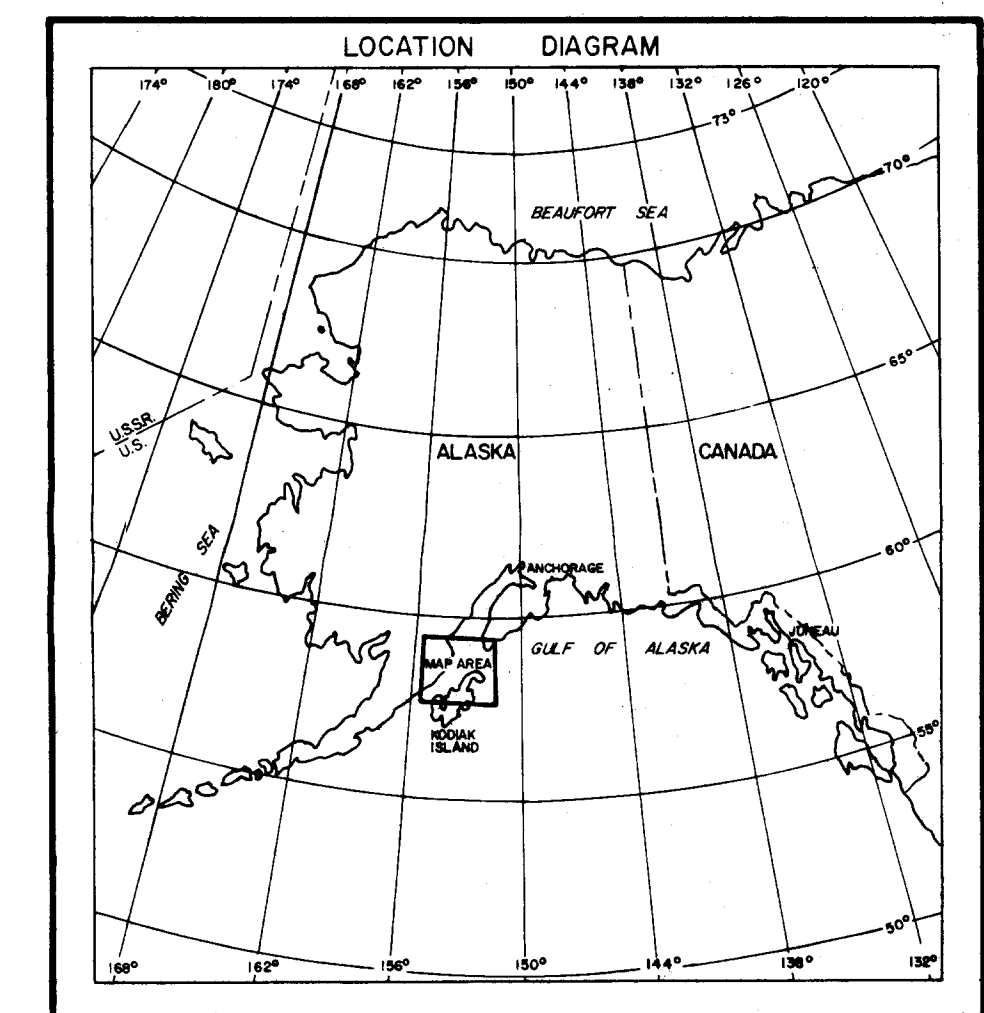


**BATHYMETRIC MAP**

This bathymetric map was constructed by hand digitizing, computer posting, and hand contouring high-resolution seismic reflection data. Depths were calculated assuming a constant acoustic velocity in water of 1,480 meters per second. Tidal corrections were applied, so the vertical datum is mean lower low water. Corrections were made for instrument tow depth. The estimated error in picking depths from seismic sections is 1.0 meter. The internal consistency of the data set was checked by comparing the computed depth on intersecting track lines. On 314 line intersections, the average difference in depth is 0.34 meter, with a standard deviation of 1.28 meters. Intermediate contours are not shown in very steep areas.



**OPEN-FILE REPORT SERIES ON SHELIKOF STRAIT, ALASKA, 1980**

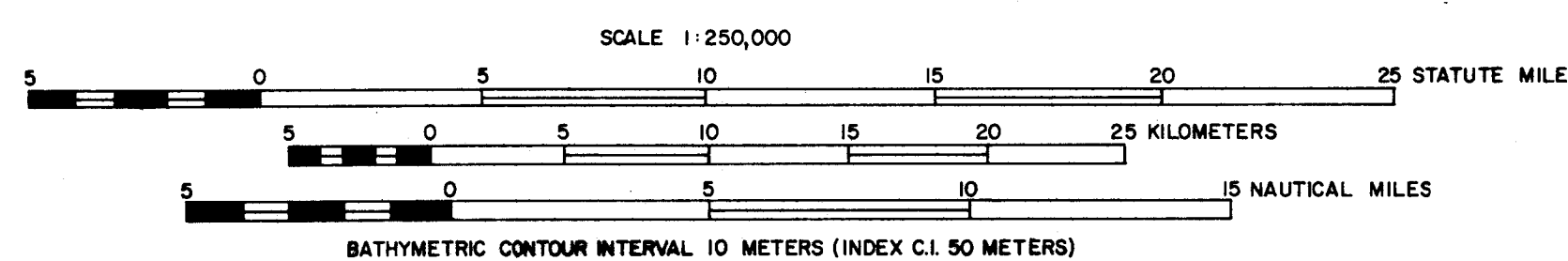
This report is one of six (5 maps and 7 cross sections) on the surface and near-surface geologic environment of Shelikof Strait, Alaska. This series was developed in preparation for Oil and Gas Lease Sale 60 of the Outer Continental Shelf of Lower Cook Inlet, scheduled for September 1981. The publications in this series are:

- Bathymetric map of the Outer Continental Shelf of Shelikof Strait, Alaska, by John Whitney and K. D. Holden: U.S. Geological Survey Open-File Report 80-2031, scale 1:250,000, 1 sheet.
- Isopach map of upper Holocene marine sediments, Outer Continental Shelf, Shelikof Strait, Alaska, by K. D. Holden: U.S. Geological Survey Open-File Report 80-2032, scale 1:250,000, 1 sheet.
- Isopach map of Holocene marine sediments, Outer Continental Shelf, Shelikof Strait, Alaska, by Peter J. Hoose, K. D. Holden, and Lynn Lybeck: U.S. Geological Survey Open-File Report 80-2033, scale 1:250,000, 1 sheet.
- Isopach map of Quaternary glacial-marine sediments, Outer Continental Shelf, Alaska, by John Whitney, K. D. Holden, and Lynn Lybeck: U.S. Geological Survey Open-File Report 80-2034, scale 1:250,000, 1 sheet.
- Map showing selected geologic features on the Outer Continental Shelf, Shelikof Strait, Alaska, by Peter J. Hoose and John Whitney: U.S. Geological Survey Open-File Report 80-2035, scale 1:250,000, 1 sheet.
- Geologic cross sections of the Outer Continental Shelf, Shelikof Strait, Alaska, by John Whitney, Peter J. Hoose, Laura M. Smith, and Lynn Lybeck: U.S. Geological Survey Open-File Report 80-2036, 1 sheet.

The information presented in these six reports was interpreted from 2557 kilometers of multi-sensored high-resolution geophysical data collected in 1979 by Nekton, Inc., for the U.S. Geological Survey. The acoustic systems used included a 16-kilojoule (kJ) sparker with both sixfold common-depth-point (CDP) processing and analog format, a low-energy (1-3 kJ) sparker, an electromechanical boomer, a 3.5-kHz piezoelectric profiler, a fathometer, and side-scan sonar. The tracklines along which data were collected are shown on each map. This survey was performed under an exclusive contract with the U.S. Geological Survey; the data are available to the public as Sale 60, Data Set AK-18248 from the National Geophysical and Solar-Terrestrial Data Center (address: NOAA/EDS/NGSDC, Code D-621, Boulder, CO 80302).

The 4.8 km X 4.8 km grid superimposed on each map represents the tract boundaries from the Bureau of Land Management Protraction Diagrams.

SOURCE OF SHORELINE FROM BLM PROTRACTION DIAGRAMS NO 4-6, NO 5-1, NO 5-3, NO 5-4 AND NO 5-5. PUBLISHED IN 1975 AND 1976.



MAP PROJECTION UTM, CLARKE 1866 SPHEROID, ZONE 5.

This map is not intended for navigational purposes. It has not been edited for conformity with Geological Survey editorial standards.

**BATHYMETRIC MAP OF THE OUTER CONTINENTAL SHELF OF SHELIKOF STRAIT, ALASKA**  
**JOHN WHITNEY AND K.D. HOLDEN**  
**1980**