This bathymetric map was constructed by hand digitizing, computer plotting, and then converting high-resolution sounder information into lines. Depths were calculated assuming a constant acoustic velocity in water of 1,500 meters per second. Vertical datums are mean lower low water. Corrections were made for instrument line delays. The estimated error in picking depth from contours is ±0.1 meters. This estimate was checked by comparing the computed depth to intersecting track lines. On 234 of the intersecting lines, the average difference in depth to 0.14 meter, with a standard deviation of 0.18 meters. Intermediate contours are not shown in very shallow areas.

Bathymetric map of the Outer Continental Shelf of Shilikof Strait, Alaska. This series was developed by September for 1981 and was compatible with U.S. Geological Survey Open-File Report 80-600, scale 1:250,000, 1 sheet.

Map showing selected geologic features on the Outer Continental Shelf, Shilikof Strait, Alaska, by Peter J. Moore and John Whitney. S. Geological Survey Open-File Report 80-600, scale 1:250,000, 1 sheet.


The information presented in these six reports was interpreted from 2,967 kilometers of multi-sounder high-resolution geophysical data collected in 1979 by Nippon, Inc., for the U.S. Geological Survey. The acoustic data were processed with standard techniques which include common-depth-point (CDP) processing and editing, a two-term (1-12) equation, a computerized wave equation to 20 weeks, a gravimetric profile, a bathymetric, and standard bathymetric processing. The tracklines along which data were collected are shown on each map. This survey was performed during the winter months, during which the data were available to the public as late as 1981. Data set 05-659,443 from the National Geophysical and Oceanographic Data Center (202) 406-5791.

The 2.4 km 2.0 km grid superimposed on each map represents the tract boundaries from the Bureau of Land Management Protection Diagrams.

John Whitney and K.D. Holden
1980