



MAP SHOWING TRACKLINES OF  
HIGH-RESOLUTION UNIBOOM SEISMIC REFLECTION PROFILES  
COLLECTED AUGUST 26 THROUGH SEPTEMBER 19, 1978, IN THE CHUKCHI SEA  
By  
Arthur Grantz and Jonathan Greenberg

The U.S. Geological Survey conducted a cruise in the Chukchi Sea from the R/V Samuel P. Lee during August 26 through September 19, 1978, as part of a resource assessment of the outer continental shelf northwest of Alaska. The study area lies between 157° W. and approximately 176° W. longitude and from 67° N. to approximately 73.5° N. latitude (see map).

Single-channel high-resolution (Uniboom) continuous seismic reflection profiles were collected along 26 tracklines with a total trackline distance of approximately 4,800 km (see map). The Uniboom hull transducers had a power range of 0.6 to 1.2 kJ, and the recording system had a low-cut filter range of 300 to 500 Hz and a high-cut filter range of 800 to 1,300 Hz. Data were recorded onto paper rolls.

Navigation during the survey was done by the scientific staff using a Marconi integrated satellite/doppler navigation system. Navigation information was digitized and then computer plotted onto a polar stereographic projection at a scale of 1:1,000,000.

Microfilm copies of the high-resolution (Uniboom) continuous seismic reflection profiles can be purchased from the National Geophysical and Solar Terrestrial Data Center, NOAA (National Oceanic and Atmospheric Administration), Boulder, CO 80502. The data were filmed at the U.S. Geological Survey in Menlo Park, CA 94025.

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards. Any use of trade names is for descriptive purposes only and does not imply endorsement by the U.S.G.S.

MAP SCALE 1 : 1000000.00

MULTIPLY BY  
0 10 20 30 40 50  
KILOMETERS  
0 20 40 60 80 100  
STATUTE MILES

POLAR STEREOGRAPHIC PROJECTION  
POLE POSITION:  
LATITUDE = -90.0000  
LONGITUDE = -156.7500  
DEGREES TO ROTATE MAP 0.0000  
DISTANCE BETWEEN GRID MARKS:  
LATITUDE = 1.0000  
LONGITUDE = 2.0000

NAVIGATION LEGEND  
TIME SYMBOL — EVERY 60 MINUTES  
LINE LABEL

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