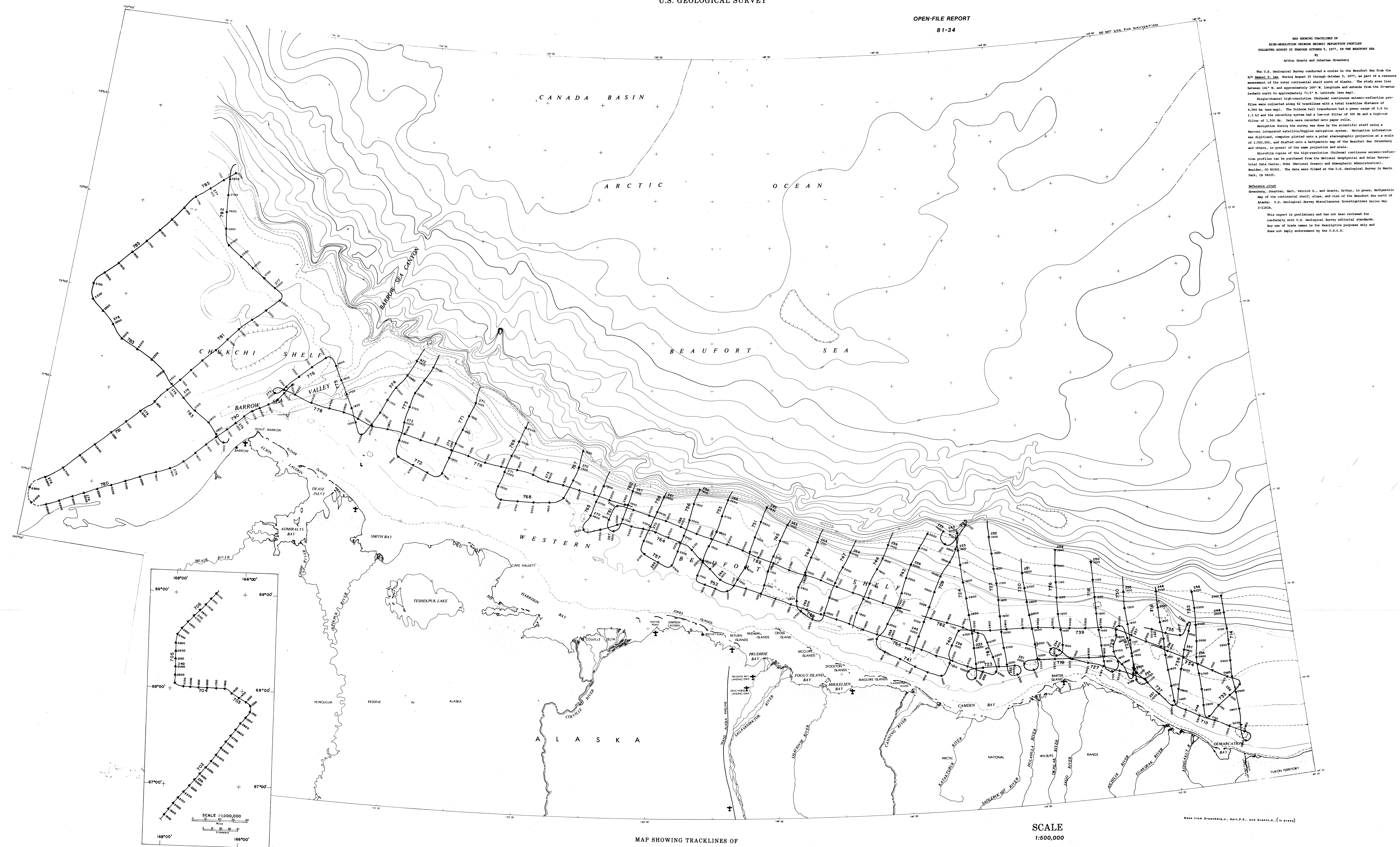


**OPEN-FILE REPORT**  
**81-34**



84-000000 UNIFORM SEMI-REFLECTION PROFILES

COLLECTED ABOUT 25 DECEMBER OCTOBER 5, 1977, IN THE BEARFOOT SEA

By  
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The U. S. Geological Survey conducted a cruise in the Bearfoot Sea off the Kamaii N. Sea during March 25 through October 5, 1977, as part of a reconnaissance of the outer continental shelf north of Alaska. The study area lies between 141° W. and approximately 168° W. longitude and extends from the 20-meter depth north to approximately 73.5° N. latitude (see map).

Seismic (high-resolution (Nuboom) continuous seismic-reflection profiles were collected along 62 tracklines with a total trackline distance of 4 km (see map). The Nuboom hull transmitter had a power range of 0.4 to 0.2 and the recording system had a low-cut filter of 300 Hz and a high-cut filter of 10 Hz. The Nuboom hull receiver was a 100 m towed array.

Navigation during the survey was done by the scientific staff using an integrated satellite/GPS navigation system. Navigation information, digitized, computer plotted onto a polar stereographic projection at a scale of 1:500,000, and drafted onto a map of the outer continental shelf area (Greenberg 1978). The map shows the location of the project and scale.

Microfiche copies of the high-resolution (Nuboom) continuous seismic-reflection profiles can be purchased from the National Geological Survey and the National Oceanic and Atmospheric Administration (NOAA) National Science and Oceanographic Administration (NSO).

NOAA Form 80-1000. The data were filmed at the U.S. Geological Survey in Menlo Park, CA 94025.

References Cited

Greenberg, Jonathan, Hart, Patrick T., and Grants, Arthur, in press, Bathymetric map of the continental shelf, slope, and rise of the Beaufort Sea north of Alaska. U. S. Geological Survey Miscellaneous Investigations Series Map I-1182A.

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.

Base from Greenberg, J., Hart, P.E., and Grantz, A., (in press)