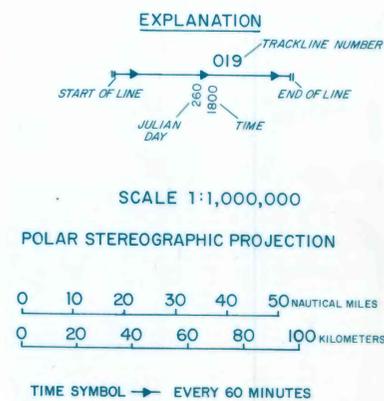


MAP SHOWING TRACKLINES OF
HIGH-RESOLUTION UNIBOOM SEISMIC-REFLECTION PROFILES
COLLECTED AUGUST 31 THROUGH SEPTEMBER 21, 1980, IN THE CHUKCHI SEA
By
Arthur Grantz, David Dinter, Edwin Hill and T.E. Chase

The U.S. Geological Survey conducted a cruise in the Chukchi Sea from the R/V Samuel P. Lee during August 31 through September 21, 1980, as part of a resource assessment of the outer continental shelf northwest of Alaska. The study area lies between 162°W. and 172°W. long and from 66°N. to approximately 71.5°N. lat (see map). During this study single-channel high-resolution (Uniboom) continuous seismic-reflection profiles were collected along approximately 3,500 km of trackline and along turns between tracklines. Other 1980 tracklines along which high-resolution seismic data were not collected, or along which sea state or sampling operations impaired the collection of usable high-resolution records, have been deleted from the map. Microfilm copies of the profiles can be purchased from the National Geophysical and Solar Terrestrial Data Center, NOAA (National Oceanic and Atmospheric Administration), Boulder, CO 80302. The data were filmed at the U.S. Geological Survey in Menlo Park, CA 94025.

The seismic source, hull-mounted uniboom transducers, had a power range of 0.6 to 1.2 kJ. The recording system had a low-cut filter range of 300 to 500 Hz and a high-cut filter range of 900 to 1,200 Hz. The analog data were received by two streamers towed about 1 meter below the surface adjacent to the transducer. Navigation during the survey was done by the scientific staff using an integrated Marconi satellite/doppler navigation system. Navigation information was digitized and then computer plotted onto a polar stereographic projection at the scale of 1:1,000,000.

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.



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