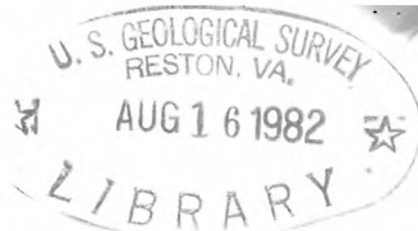


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no. 82-595



Department of Interior
U.S. Geological Survey Open-File Report 82-595

High-resolution seismic-reflection profiles collected
over the Atlantic Upper Continental Slope off
New Jersey and Georges Bank

By
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for small

Single-channel, seismic-reflection profiles were collected by the U.S. Geological Survey during a cruise aboard the M. V. STATE ARROW in July and August 1978. The data were collected in three areas over the Atlantic Upper Continental Slope (fig. 1A). The first area was off the northern part of the Baltimore Canyon Trough between Carteret and South Toms Canyons (fig. 1B). The other two areas were off Georges Bank in the heads of Veatch and Lydonia Canyons (figs. 1C, D). These data, along with observations made from the submersible DSRV DIAPHUS, were used to make detailed observations of geologic hazards in these areas (Slater, 1981; Slater and others, 1981).

The seismic equipment used included an 800-joule Teledyne¹ minisparker and an ORE 3.5-kHz echo sounder. Minisparker data were collected along 592 km of trackline and 3.5-kHz echo-sounder data were collected along 15 km of trackline at the head of Lydonia Canyon.

Navigation of the M. V. STATE ARROW was by Loran C. Fixes were logged at least every 15 minutes, and after the cruise the navigation data were digitized and stored on magnetic tape.

The original records may be studied at the U.S. Geological Survey Data Library at Woods Hole, MA 02543. Copies of the data may be purchased only from the National Geophysical and Solar Terrestrial Data Center, NOAA/EDIS/NGSDC, Code D621, 325 Broadway, Boulder, CO 80303 (303-497-6338).

REFERENCES

Slater, R. A., 1981, Submersible observations of the sea floor near the proposed Georges Bank lease sites along the north Atlantic Outer Continental Shelf and upper slope: U.S. Geological Survey Open-File Report 81-742.

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U.S. Geological Survey
(USGS)

¹Use of trade names in this report is for purposes of identification only and does not represent endorsement by the U.S. Geological Survey.

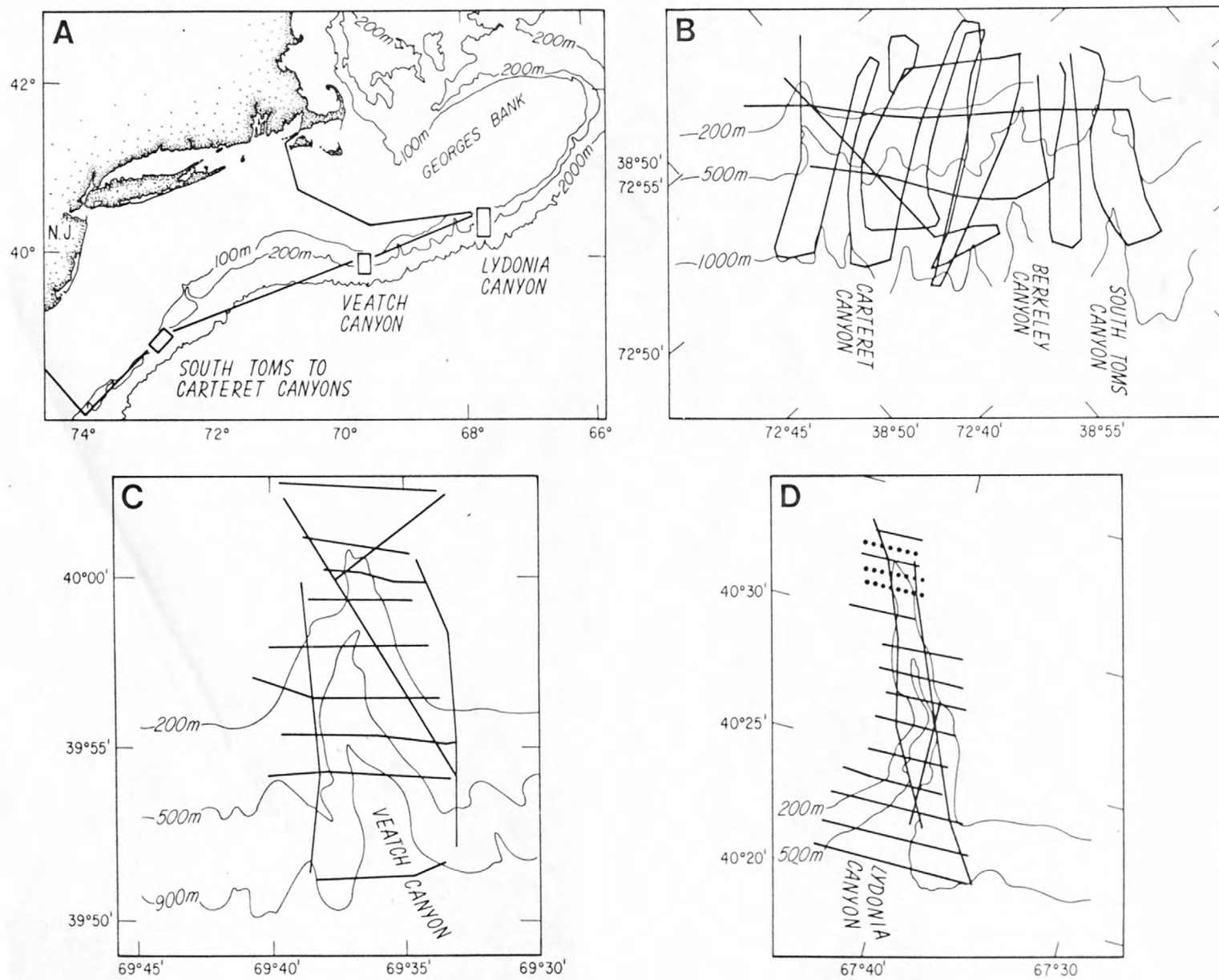


Figure 1. Locations of the three seismic-reflection survey sites (A) and enlargements of the individual areas (B, C, D). Solid lines are minisparker profiles, and dotted lines are 3.5 kHz profiles.

