

Mid and North Atlantic multichannel seismic  
reflection profiles

7, 8-A, 8-B, 8-C, 12-E, 12-F, 12-G, 12-H, 12-I, 12-J,  
13-A, 13-B, 13-C, 13-D, 13-E, 13-F, 13-G, and 13-H.

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Mid-and North Atlantic multichannel seismic reflection profiles  
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13-A, 13-B, 13-C, 13-D, 13-E, 13-F, 13-G, and 13-H.

Available are four multichannel profiles collected by Digicon Geophysical Corporation in 1975 using a 48-channel streamer (3600 m long), and a 27.9 cubic liter airgun array. They were processed in Denver on the Phoenix "I" by William C. Petterson. The processing includes demultiplexing and resampling, geometry and common-depth-point, definition, velocity analysis noise muting, band-pass filtering, time-variant filtering, time-variant deconvolution, and automatic gain control (AGC) sealing, prior to the final profile payout.

The release includes pairs of or all of four lines off the eastern United States (see map) over the Georges Bank basin and the Long Island platform and upper continental rise. These profiles were collected as a part of a regional program to assess the resource potential using non-proprietary data. Lines 7 and 8 are cross-shelf profiles (280 km and 400 km long respectively) taken across Georges Basin George Bank, the continental slope and rise east of Massachusetts. A five kilometer gap exists in line 8C near the outer edge of the shelf because the high concentration of lobster pots there prevented a continuous traverse through the area. Line 12 (shotpoint 5988 - 14380, parts E, F, G, H, I and J) is along-the-shelf profile, and stretches from the vicinity of Hudson Channel (mid-shelf east of New Jersey) to Browns Bank, 100 km southeast of Nova Scotia, terminating in the vicinity of the Shell Mohawk (B-93) hole. Line 13 (shotpoint 83-11295, 1120 km) traverse the upper Continental rise between Cape Hatteras and Georges Bank.

These profiles including velocity scans and shot point maps, may be viewed at U. S. Geological Survey Office, Bldg. B, Quissett Campus, Woods Hole, MA., and U. S. Geological Survey Office, Bldg. 25 at the Denver Federal Center. Copies of maps, scans and profiles can be purchased from the National Geophysical Solar-Terrestrial Data center, Environmental Data Service - NOAA, Code D 621, Boulder, Co. 80303.