

UNITED STATES DEPARTMENT OF THE INTERIOR  
U.S. GEOLOGICAL SURVEY

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Notes on the Availability of Mid-Atlantic Multichannel Seismic

Reflection Profiles 11 and 12 A, B, C, and D  
by

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This report is preliminary and has not been edited for conformity with Geological Survey standards or nomenclature.

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reflection profiles 11 and 12 A, B, C, and D

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Available are two multichannel profiles collected by Digicon Geophysical Corporation in 1975 using a 48-channel streamer (3600 m long) and a 27.9 cu. liter air gun array. They were processed in Denver on the Phoenix "I" by William C. Patterson. The processing included 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) scaling, prior to the final profile playout.

The release includes parts of two lines off the mid-atlantic continental margin (see map) over the Baltimore Canyon trough. These profiles were collected as part of a regional grid over the offshore Atlantic sedimentary basins, as a part of a continuing program to assess the resource potential using non-proprietary data Line 11 is a cross shelf profile (233 ken long) taken across the shelf, slope and upper rise off Virginia (southern Baltimore Canyon trough). Line 12 (shotpoint 101-6011, parts A, 8, C and D) is an along-the-shelf profiler and stretches from the Cape Hatteras IPOD line to line 2, at the northern part of the Baltimore Canyon trough), a distance of 591 km.

These profiles may be viewed at the U.S. Geological Survey, Atlantic Gulf of Mexico, Office of Marine Geology, Quissett campus, Building B, Woods Hole, Massachusetts 02543, and at the U.S. Geological Survey, Branch of Oil and Gas Resources, Denver Federal Center, Building 25, Denver. Colorado 80225. Copies of the profiles can be purchased from the Nations Geophysical and Solar-Terrestrial Data Center, Environmental Data Service-NOAA, Code D621 Boulder, Colorado 80303.