



**EXPLANATION**

Free-air gravity contours--Contour interval, 10 milligals, relative to the 1967 International Gravity Formula (Moritz, 1968). Hachured to indicate closed areas of lower or higher gravity. Queried where inferred.

▲ Seamount

**DATA SOURCES**

- 1) R/V Atlantis II (U.S. Geol. Survey, Apr.-May 1975)
- 2) R/V Fay (U.S. Geol. Survey, Sept.-Oct. 1975)
- 3) USNS *Seathly* (1968-69)
- 4) Other ship tracks: Lamont-Doherty Geol. Observatory and Woods Hole Oceanog. Inst.
- 5) Bottom-gravity stations
  - a) Georges Bank--J.D. Hendricks and J.M. Robb (1973)
  - b) Cape Cod Bay--W.A. Bothner (written commun., 1976)
- 6) Bathymetric contours in meters (National Ocean Survey Chart 13003)
- 7) Massachusetts land-gravity data (points not plotted)--R.W. Bromery (1967)

**REFERENCES CITED**

Bromery, R.W., 1967, Simple Bouguer gravity map of Massachusetts: U.S. Geol. Survey Geophys. Inv. Map GP-612.

Hendricks, J.D., and Robb, J.M., 1973, Gravity measurements in the vicinity of Georges Bank: Geol. Soc. America Bull., v. 84, p. 3911-3916.

Moritz, Helmut, 1968, The Geodetic Reference System 1967: Allgemeine Vermessungs-Nachrichten, v. 75, p. 2-7.

<sup>1</sup>U.S. Geological Survey, Woods Hole, Mass. 02543

<sup>2</sup>Woods Hole Oceanographic Institution, Woods Hole, Mass. 02543

**SCALE** 1:1,200,000

0 50 100 150 200 KILOMETERS

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PRELIMINARY FREE-AIR GRAVITY ANOMALY MAP ALONG THE ATLANTIC CONTINENTAL MARGIN BETWEEN VIRGINIA AND GEORGES BANK

By

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1976

Base from National Ocean Survey Chart 13003 (formerly C&GS 1000)

Mercator projection

Gravity data compiled in May 1976 from sources cited

Interior--Geological Survey, Reston, Virginia--1976

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