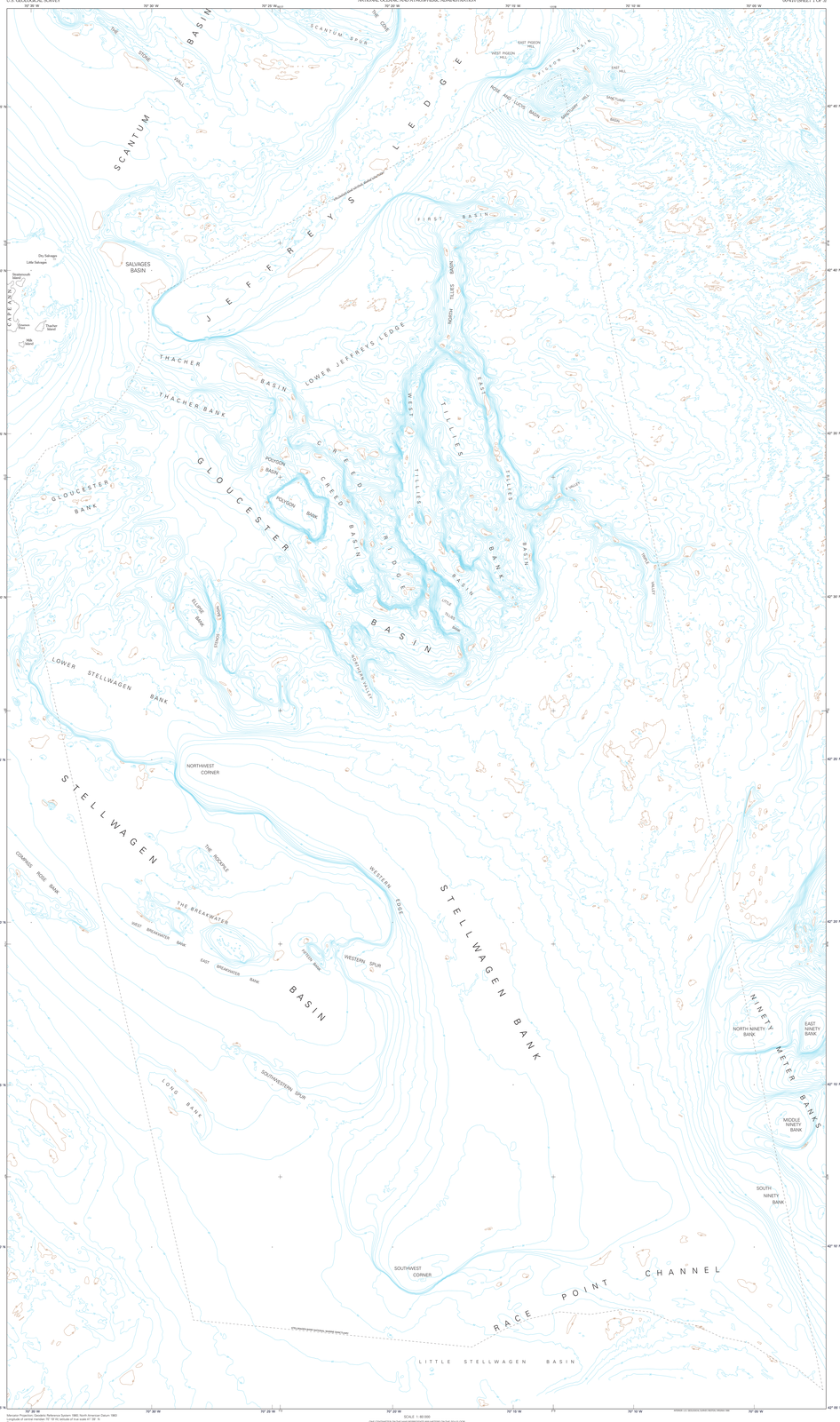
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Prepared in cooperation with the
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

OPEN-FILE REPORT
00-410 (SHEET 1 OF 3)



Mercator Projection; Geodetic Reference System 1980; North American Datum 1983
Longitude of central meridian 70° 10' W; latitude of true scale 41° 39' N
This map is not to be used for navigational purposes

SCALE 1:80 000
ONE CENTIMETER ON THE MAP REPRESENTS 800 METERS ON THE SEA FLOOR

CONTOUR INTERVAL 5 METERS
BROKEN CONTOURS REPRESENT TOPOGRAPHIC LOWS
DATUM MEAN LOWER LOW WATER

SEA FLOOR TOPOGRAPHY OF THE STELLWAGEN BANK NATIONAL MARINE SANCTUARY OFF BOSTON, MASSACHUSETTS

By

Page C. Valentine, Jessica L. Baker, and Tanya S. Unger

2000

DISCUSSION

This map is part of a three-map series of the Stellwagen Bank National Marine Sanctuary region. The map shows sea floor topography in the form of contours and shaded relief, and it includes the square nautical miles of the sea floor. The other two maps show sun-illuminated (shaded relief) sea floor topographic images and perspective-view images of Quadrangles 1-3 (Valentine and others, 1998; Valentine and others, 1999; Valentine and others, 2000; and Valentine and others, 2000; USGS Open-File Report 00-410 Sheets 2 and 3). The map shows contoured topography at an interval of 5 meters. Contours are shown on the map for all depths shallower than 200 meters and for selected depths greater than 200 meters. The four quadrangles each have location maps in which new sea floor topography and sun-illuminated imagery are shown in color. For a full discussion of the topography and geology of the region, see Valentine and others, 1997 (U.S. Geological Survey Open-File Reports 97-502 to 97-508, 97-545 to 97-547, and 97-726 to 97-732). For paper maps of sun-illuminated topographic imagery, see Valentine and others, 1998 (U.S. Geological Survey Open-File Report 98-156, 1 sheet, 1:80,000 scale, 4 sheets). For a cd-rom of digital contoured topography (EPS, PS, Arc export, PDF formats), see Valentine and others, 1998. For a cd-rom of digital sun-illuminated topographic imagery (EPS, PS, TIF, Arc export, PDF formats), see Valentine and others, 1999. For a cd-rom of digital images (TIF) of the four quadrangles see above, for reference on links labelled outside the map edges and as large crosses within the map area. The great topographic detail of the seabed revealed by this survey warrants the designation of the area as a sanctuary. This map is a contribution to the Stellwagen Bank National Marine Sanctuary Mapping Project.

The Stellwagen Bank National Marine Sanctuary Mapping Project is a cooperative effort of the U.S. Geological Survey and the National Oceanic and Atmospheric Administration, with support from the University of New Brunswick and the Canadian Hydrographic Service.

REFERENCES

Valentine, P.C., Baker, J.L., Unger, T.S., and Pollard, C., 1998, Sea floor topographic map and perspective-view imagery of Quadrangles 1-3, Stellwagen Bank National Marine Sanctuary off Boston, Massachusetts: U.S. Geological Survey Open-File Report 98-156, 1 cd-rom.

Valentine, P.C., Unger, T.S., Baker, J.L., and Pollard, C., 1999, Sun-illuminated sea floor topographic map and perspective-view imagery of Quadrangles 1-3, Stellwagen Bank National Marine Sanctuary off Boston, Massachusetts: U.S. Geological Survey Open-File Report 99-263, 1 cd-rom.

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