



MAP 2174A
SHADED SEAFLOOR RELIEF
BAY OF FUNDY, SHEET 1
OFFSHORE NOVA SCOTIA-NEW BRUNSWICK

Scale 1:50 000 (échelle 1:50 000)

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This map was produced by Natural Resources Canada in cooperation with Fisheries and Oceans Canada.

Multibeam bathymetric data collected by Canadian Hydrographic Service, 1992, 2004-2009; Geological Survey of Canada 1999-2001, 2004-2009; and University of New Brunswick, 1992, 1994, 2002-2009.

Universal Transverse Mercator Projection
 North American Datum 1983
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 This map is intended for use as a reference only.

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Digital bathymetric contours in metres supplied by Canadian Hydrographic Service and GSD (planimetric)

Digital topographic contours in metres supplied by Canadian Hydrographic Service and GSD (planimetric)

Magnetic declination 2011: 17°59'W, decreasing 6.6' annually

Elevations in metres above mean sea level

Depth in metres below mean sea level

Any revisions or additional geographic information known to the user would be welcomed by the Geological Survey of Canada.

Digital base map (land area) from data compiled by Geomatics Canada, modified by GSD (planimetric)

Digital bathymetric contours in metres supplied by Canadian Hydrographic Service and GSD (planimetric)

Magnetic declination 2011: 17°59'W, decreasing 6.6' annually

Elevations in metres above mean sea level

Depth in metres below mean sea level

DESCRIPTIVE NOTES

INTRODUCTION

The Bay of Fundy, located on the east coast of Canada between the provinces of Nova Scotia and New Brunswick (Fig. 1), is a macrotidal estuarine environment (Alvares et al., 2009) with the highest recorded tidal range in the world (20.8 m, 2004, Blundy, 2008). This map is one of a series of maps that show the seafloor relief of the Bay of Fundy and the surrounding areas in a shaded relief format. The bathymetric contours are derived from the Canadian Hydrographic Service (CHS) bathymetric data collected between 1992 and 2009 to a depth of 200 m. The water depth contours are derived from the CHS bathymetric data collected between 1992 and 2009 to a depth of 200 m. The bathymetric contours are derived from the CHS bathymetric data collected between 1992 and 2009 to a depth of 200 m. The bathymetric contours are derived from the CHS bathymetric data collected between 1992 and 2009 to a depth of 200 m.

MULTIBEAM BATHYMETRY DATA COLLECTION

Multibeam water depth data were collected by the Canadian Hydrographic Service, the Geological Survey of Canada, and the University of New Brunswick. The survey systems use a sonar beam that is about 150 metres wide and is divided into 100 beams. The beams are directed at the seafloor and the depth of each beam is recorded. The beams are then combined to form a bathymetric map. The bathymetric map is then used to create a shaded relief map. The bathymetric map is then used to create a shaded relief map. The bathymetric map is then used to create a shaded relief map.

BATHYMETRIC DATA DISPLAY

The multibeam bathymetric data are presented as a shaded relief map. The map shows the depth of the seafloor in metres. The map is color-coded by depth, with shallower depths in red and deeper depths in blue. The map is presented as a shaded relief map. The map shows the depth of the seafloor in metres. The map is color-coded by depth, with shallower depths in red and deeper depths in blue. The map is presented as a shaded relief map.

BAY OF FUNDY GEOMORPHOLOGY

The Bay of Fundy is a south-west trending funnel-shaped bay, 100 km long that is 35 km at its entrance and tapers to 10 km at its northern end where it narrows into Chignecto Bay and then Chignecto Strait (Fig. 1). The floor of the bay, although remarkably flat, presents a gently dipping relief that is generally higher in the north and lower in the south. The bathymetric contours are derived from the CHS bathymetric data collected between 1992 and 2009 to a depth of 200 m. The bathymetric contours are derived from the CHS bathymetric data collected between 1992 and 2009 to a depth of 200 m. The bathymetric contours are derived from the CHS bathymetric data collected between 1992 and 2009 to a depth of 200 m.

Geological history

Geological features revealed through mapping of the Bay of Fundy seafloor reflect the geological history of the region. The Bay of Fundy is situated within the Chignecto Strait, a narrow waterway that connects the Gulf of St. Lawrence to the Gulf of Fundy. The Chignecto Strait is a narrow waterway that connects the Gulf of St. Lawrence to the Gulf of Fundy. The Chignecto Strait is a narrow waterway that connects the Gulf of St. Lawrence to the Gulf of Fundy.

Geomorphology of this map

A shaded relief map at a scale of 1:50 000 (Fig. 2-7) highlights the geomorphological features in the seafloor of the Bay of Fundy. The map shows the depth of the seafloor in metres. The map is color-coded by depth, with shallower depths in red and deeper depths in blue. The map is presented as a shaded relief map.

ACKNOWLEDGMENTS

The authors would like to thank the following individuals and organizations for their assistance in the production of this map: B. McQuinn, M. Langstaff, and J. Griffin of the Canadian Hydrographic Service (CHS) for providing the bathymetric data; the Geological Survey of Canada (GSC) for providing the topographic data; and the University of New Brunswick (UNB) for providing the bathymetric data. The authors would like to thank the following individuals and organizations for their assistance in the production of this map: B. McQuinn, M. Langstaff, and J. Griffin of the Canadian Hydrographic Service (CHS) for providing the bathymetric data; the Geological Survey of Canada (GSC) for providing the topographic data; and the University of New Brunswick (UNB) for providing the bathymetric data.

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Figure 1. Location map showing the Bay of Fundy region, including Nova Scotia, New Brunswick, and the Gulf of Maine. The map shows the location of the Bay of Fundy and the surrounding areas. The map is color-coded by depth, with shallower depths in red and deeper depths in blue. The map is presented as a shaded relief map.

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