

Figure 4. Pockmarks in sediment in Passamaquoddy Bay, New Brunswick.

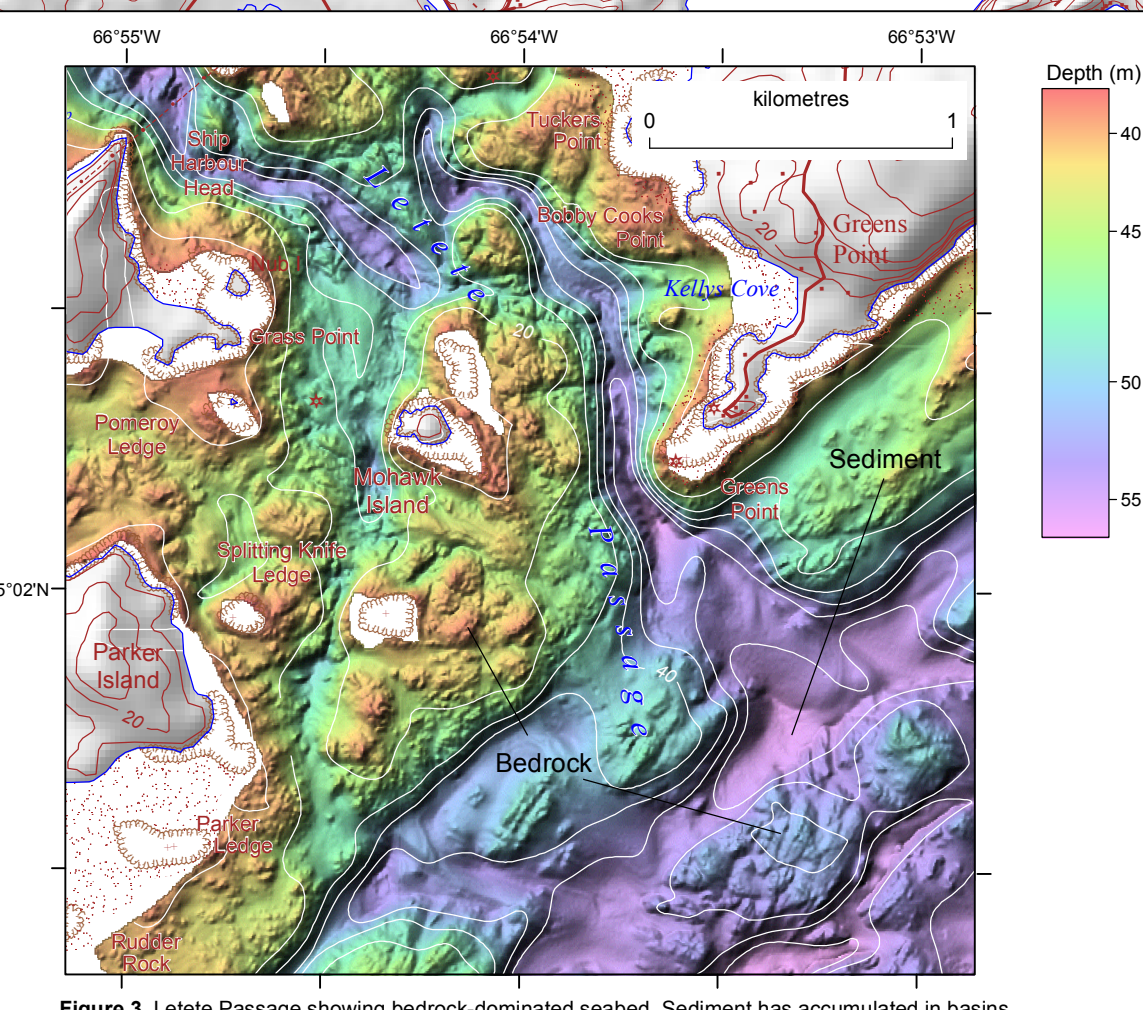


Figure 3. Leletse Passage showing bedrock-dominated seabed. Sediment has accumulated in basins.

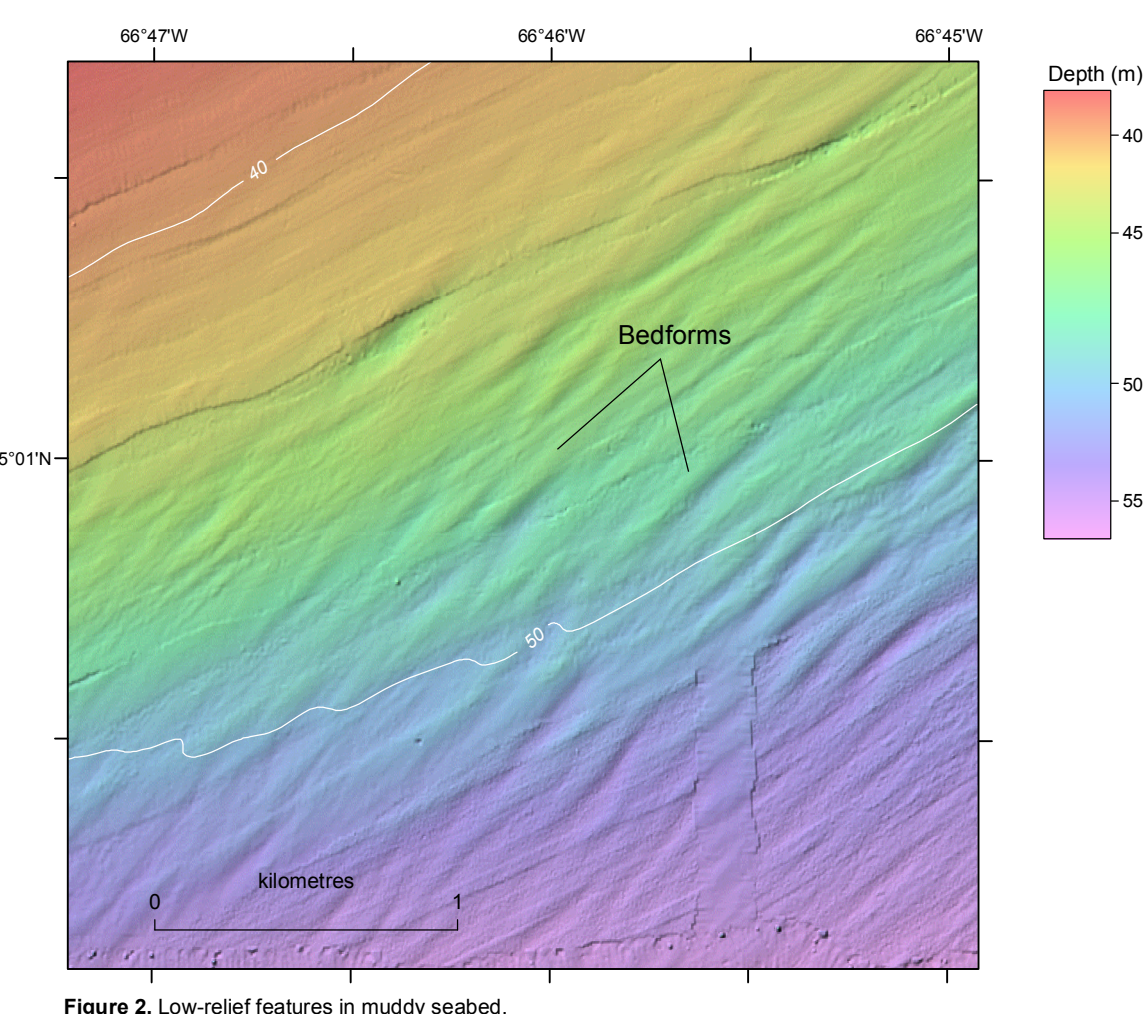


Figure 2. Low-relief features in muddy seabed.

INTRODUCTION

The Bay of Fundy, located on the east coast of Canada between the provinces of Nova Scotia and New Brunswick, is a tectonically complex area...

DESCRIPTIVE NOTES

The complete Bay of Fundy seafloor relief map coverage is composed of seventeen adjacent map sheets at a scale of 1:50 000 (Fig. 1). In this sheet, the main coastline of the Bay of Fundy map scale (three map sheets) is shown.

MULTIBEAM BATHYMETRY DATA COLLECTION

Multibeam sonar 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 over an area of about 130° across the seafloor...

BATHYMETRIC DATA DISPLAY

The multibeam sonar bathymetric data are presented at 5 m per pixel horizontal resolution. The shaded-relief image is presented with a vertical scale of 10 metres per 10 metres of horizontal distance...

BAY OF FUNDY GEOMORPHOLOGY

The Bay of Fundy is a southeast-trending funnel-shaped bay 155 km long that is 70 km wide at its entrance and tapers to 48 km at its northern end...

GEOLOGICAL HISTORY

Geomorphological 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 Carboniferous-Triassic orogenic belt...

GEOGRAPHY OF THIS MAP

A series of detailed maps at a scale of 1:50 000 (Fig. 2-4) highlights geomorphological features in northern Bay of Fundy and Passamaquoddy Bay, New Brunswick. For each of these detailed maps, the colour range values are hypsometrically optimized and differ from the 1:50 000 sheet colour range values.

ACKNOWLEDGMENTS

B. MacGowan, M. Lamplugh, and J. Griffin of the Canadian Hydrographic Service (CHS) organized the multibeam sonar bathymetric surveys of the Bay of Fundy and offshore data processing. The Canadian Hydrographic Service provided the bathymetric data to the Geological Survey of Canada (GSC) for further processing and interpretation.

REFERENCES

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Amos, C.L., Buckley, D.E., Dalton, G.R., Derynka, R.W., McCann, S.B., and Rice, M.J., 1980. Geomorphology and bathymetry of the Bay of Fundy, Canada. Geological Survey of Canada, Field Trip 20: 1-22.
Amos, C.L., Zaitis, R.A., and Zaitis, B.A., 1991. The post-glacial evolution of the Bay of Fundy, and its modern environment of deposition. In: Coastal geomorphology, 1601-10. Smith, G.E., Stanek, B.A., Zaitis, R.A., and Raman, R. (eds.), Coastal Geology, Cambridge, Massachusetts, p. 9-30.

Map metadata including authors (B.J. Todd, J. Shaw, and D.R. Parrot), scale (1:50,000), and projection information (Universal Transverse Mercator).

Map title: BAY OF FUNDY, SHEET 10. OFFSHORE NOVA SCOTIA-NEW BRUNSWICK CANADA-UNITED STATES OF AMERICA. Includes scale and projection details.

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 GSC (Atlantic). Digital bathymetric contours in metres supplied by Canadian Hydrographic Service and GSC (Atlantic).

