



**INTRODUCTION**  
The Bay of Fundy is located on the east coast of Canada between the province of Nova Scotia and New Brunswick (Fig. 1), a macrotide estuarine embayment (Amos et al., 1980) with the highest recorded tidal range in the world (20.9 m) (Shaw et al., 2006). The Bay of Fundy and its adjacent continental shelf are a unique natural laboratory for studying the interaction of geological and oceanographic processes. The Canadian Geological Survey of Canada (GSC) has been studying the Bay of Fundy since 1962. The GSC has collected bathymetric data and bathymetric maps of the Bay of Fundy since 1962. The GSC has collected bathymetric data and bathymetric maps of the Bay of Fundy since 1962. The GSC has collected bathymetric data and bathymetric maps of the Bay of Fundy since 1962.

**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). This map sheet covers the Bay of Fundy map sheets (three maps per map area) seafloor relief, bathymetric strength, and surficial geology.

**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 used are a single beam echosounder (SBES) and a multibeam echosounder (MBES). The SBES was used to collect bathymetric data in the inner Bay of Fundy, and the MBES was used to collect bathymetric data in the outer Bay of Fundy. The MBES data were collected using a Kongsberg EM 3002 (2003) multibeam sonar bathymetric survey system with 111 beams operating at 90 kHz with the transducer mounted on the starboard stern.

**BATHYMETRIC DATA DISPLAY**  
The multibeam sonar bathymetric data are presented at 5 m per pixel horizontal resolution. The shaded relief map is presented at a 5 m per pixel horizontal resolution. The shaded relief map is presented at a 5 m per pixel horizontal resolution. The shaded relief map is presented at a 5 m per pixel horizontal resolution. The shaded relief map is presented at a 5 m per pixel horizontal resolution.

**BAY OF FUNDY GEOMORPHOLOGY**  
The Bay of Fundy is a south-west trending funnel-shaped bay 155 km long that is 70 km wide at its entrance and tapers to 40 km wide at its northern end where it narrows into Chignecto Bay and the Gulf of Fundy (Fig. 1). The floor of the bay, through hydroclastic erosion, presents a gentle gradient along the axis of the bay, with the deepest part of the bay at the northern end. The bay is bounded to the north by the Acadian orogeny and to the south by the Appalachian orogeny. The bay is bounded to the east by the Fundy Strait and to the west by the Bay of Fundy.

**Geomorphology of the map**  
A series of detailed maps at a scale of 1:50 000 (Fig. 2-7) highlight geomorphological features in northern Bay of Fundy. The Bay of Fundy is a south-west trending funnel-shaped bay 155 km long that is 70 km wide at its entrance and tapers to 40 km wide at its northern end where it narrows into Chignecto Bay and the Gulf of Fundy (Fig. 1). The floor of the bay, through hydroclastic erosion, presents a gentle gradient along the axis of the bay, with the deepest part of the bay at the northern end. The bay is bounded to the north by the Acadian orogeny and to the south by the Appalachian orogeny. The bay is bounded to the east by the Fundy Strait and to the west by the Bay of Fundy.

**Figure 1: Location map showing seventeen 1:50 000 map sheets covering the Bay of Fundy. Sheet 11 (outlined by red box) is north-central Bay of Fundy between Point Lepreau to the west and Cape Sproy, New Brunswick, to the east.**

**Figure 2: Bedrock outcrop offshore Point Lepreau.**

**Figure 3: Dredged material disposal site offshore Black Point.**

**Figure 4: Banner bank east of Cape Sproy.**

**Figure 5: Recessional moraine imprinted with iceberg pits.**

**Figure 6: Troughs formed by ice fingers or sliding blocks. Note the push moraines at the west margin of the troughs.**

**Figure 7: Trough, segmented iceberg crossing a set of older icebergs furrows with a south-southwest-north-northeast orientation.**