

INTRODUCTION

The Bay of Fundy, located on the east coast of Canada between the provinces of Nova Scotia and New Brunswick (Fig. 1), has a exceptional hydrodynamic regime...

MULTIBEAM-SONAR SURVEYS

The University of New Brunswick, the Canadian Hydrographic Service and the Geological Survey of Canada conducted Bay of Fundy multibeam sonar surveys from 1992 to 2009...

BACKSCATTER DEFINITION

The backscatter definition of a given sediment type (cm² m⁻²) or of a grain as defined by Hanesworth (1922) and modified by Folk (1954) is a grain frequency as an inverse property of that geological...

DATA PROCESSING

Backscatter data processing is treated thoroughly by Hughes Clarke et al. (2009) and is summarized here...

DESCRIPTIVE NOTES

The backscatter strength data shown on this map, and on the other maps of the Bay of Fundy map series (Fig. 1), have been processed from raw digital coverage from multibeam sonar systems...

ACKNOWLEDGMENTS

B. MacQuinn, M. Lamplugh and J. Griffin of the Canadian Hydrographic Service (CHS) organized the multibeam sonar surveys of the Bay of Fundy and central data processing...

REFERENCES

Allen, C.L., Bushby, D.E., Sabon, D.R., D'Arcy, M., McIvor, S.B., and Rab, M., 1980. Geomorphology and sedimentology of the Bay of Fundy, Geological Association of Canada, Field Trip 30-31-32.

BACKSCATTER DISTRIBUTION

The backscatter strength data shown on this map, and on the other maps of the Bay of Fundy map series (Fig. 1), have been processed from raw digital coverage from multibeam sonar systems...

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Metadata for 'BAY OF FUNDY, SHEET 13' including authors (Todd, Shaw, Parron, Hughes Clarke, Cartwright, Hayward), map scale (1:50,000), and production details.

Map scale and projection information for 'BAY OF FUNDY, SHEET 13', including UTM coordinates and magnetic declination.

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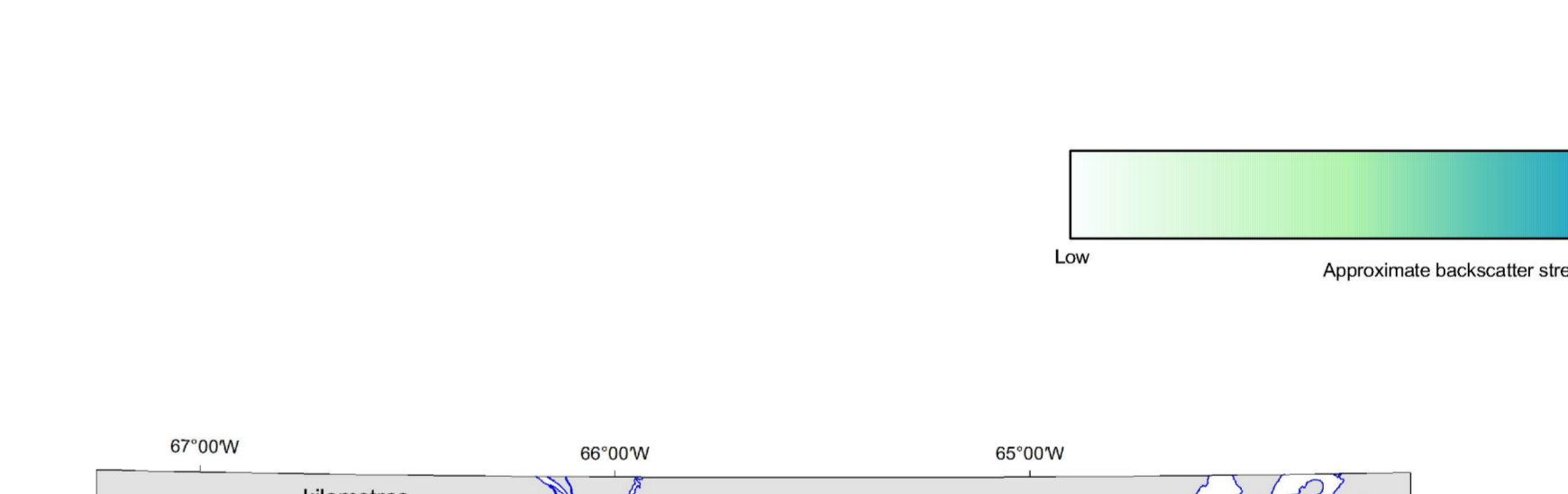


Figure 1. Location map showing coordinates of 1:50 000 map sheets covering the Bay of Fundy. Sheet 13 (outlined by red dots) is in northern Bay of Fundy extending from the waters around Seal Island and the approaches to Minas Basin.

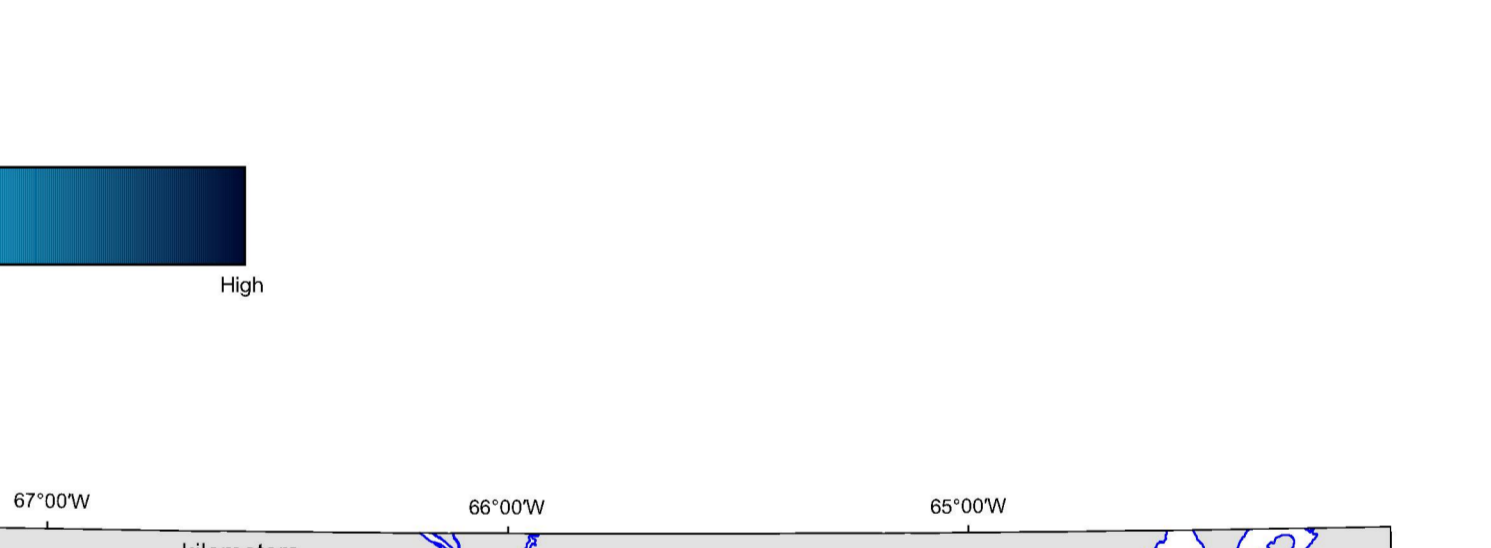


Figure 2. Location map showing the five-year extent of multibeam sonar surveys and the year of survey in the Bay of Fundy. Colours refer to five multibeam sonar sheet (and frequency) sheets listed in Table 1.

Table 1. Year of Fundy survey by year, multibeam sonar instrument and frequency of operation (adopted from D. Hanesworth's unpublished report and Hughes Clarke et al., 2009). Note that the multibeam sonar are classified by frequency (1000 or 3000 kHz) and by instrument (EM1000 or EM3002).

Legend for 'OPEN FILE DOSSIER PUBLIC 7012' showing symbols for backscatter strength and shaded seafloor relief.