

INTRODUCTION

The Bay of Fundy backscatter data presented on this map, and on the other maps of the Bay of Fundy map series (Fig. 1), have been integrated into a single regional coverage from multi-year, multi-source, acoustic backscatter data using a range of processing techniques (Fig. 2). The backscatter strength maps show the backscatter strength in dB. The backscatter strength maps are derived from the backscatter strength maps of the component areas (Fig. 2) and are the result of the data processing and integration of the backscatter strength maps of the component areas.

MULTIBEAM SONAR SURVEYS

The University of New Brunswick, the Canadian Hydrographic Service and the Geological Survey of Canada conducted the first multibeam sonar surveys from 1982 to 2000. During these surveys, multibeam sonar systems were used to map the seafloor. The multibeam sonar systems used were the EG&G Sidescan Sonar (SS) and the EG&G Chirp Sonar (CS). The multibeam sonar systems used were the EG&G Sidescan Sonar (SS) and the EG&G Chirp Sonar (CS). The multibeam sonar systems used were the EG&G Sidescan Sonar (SS) and the EG&G Chirp Sonar (CS).

ACKNOWLEDGMENTS

B. MacGowan, M. Lambright and J. Griffin of the Canadian Hydrographic Service (CHS) organized the multibeam sonar surveys of the Bay of Fundy and oceanic data processing. The Canadian Hydrographic Service provided the data to the Geological Survey of Canada (GSC) for further processing and interpretation. J.E. Hughes Clarke of the Ocean Mapping Group (OMG), Department of Geology and Geomatics Engineering, University of New Brunswick (UNB), supervised the further processing and interpretation of the backscatter data. The GSC provided the software and hardware for the processing of the backscatter data.

REFERENCES

Allen, C.J., Buckley, D.E., Dixon, G.R., Desjardis, B.W., McInnes, S.R. and Pitt, M.J. 1989. Geomorphology and sedimentology of the Bay of Fundy. Geological Association of Canada, Field Trip 20, 1-10.

DESCRIPTIVE NOTES

The backscatter strength data presented on this map, and on the other maps of the Bay of Fundy map series (Fig. 1), have been integrated into a single regional coverage from multi-year, multi-source, acoustic backscatter data using a range of processing techniques (Fig. 2). The backscatter strength maps show the backscatter strength in dB. The backscatter strength maps are derived from the backscatter strength maps of the component areas (Fig. 2) and are the result of the data processing and integration of the backscatter strength maps of the component areas.

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DATA PROCESSING

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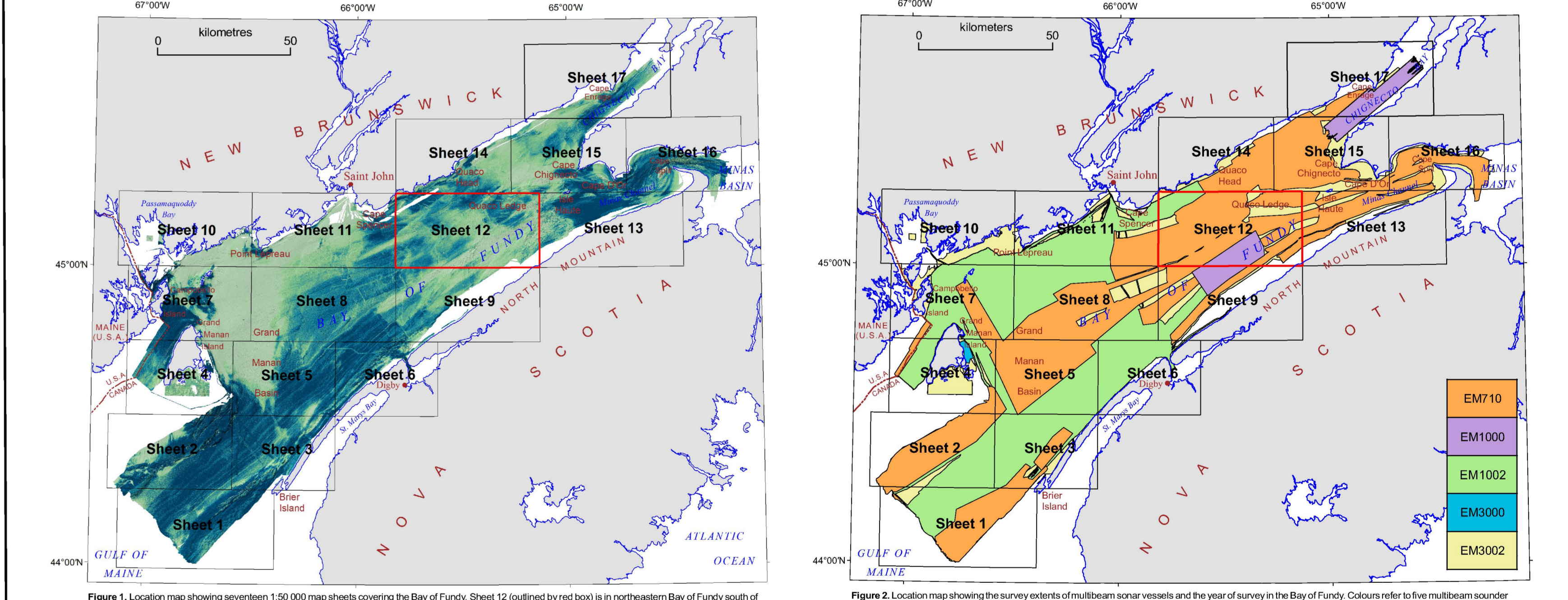


Figure 1. Location map showing the survey sheets covering the Bay of Fundy. Sheet 12 (outlined by red box) is in northeastern Bay of Fundy south of Chatham.

Figure 2. Location map showing the survey sheets of multibeam sonar surveys and the year of survey in the Bay of Fundy. Colours refer to the multibeam sonar system used (see Table 1).

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