

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 embayment (Arnott et al., 1990) with the highest tides in the world (17 m according to Church et al., 2005) and ranges (2000 m) in length (Church et al., 2005). The backscatter strength (colored by depth) as a series of 150 000 backscatter strength is used to identify...

ACKNOWLEDGMENTS

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

REFERENCES

Arnott, C.L., Buckley, D.E., Debon, G.R., Dalrymple, R.W., MacCam, S.B. and Risk, M.J., 1980. Geomorphology and sedimentology of the Bay of Fundy. Geological Association of Canada, Field Trip Guidebook No. 824.
Bates, B., 2008. Tides and the earth-moon system; in: Ocean's handbook 2008. Royal Astronomical Society of Canada, Ottawa, scale 120 000.
Canadian Hydrographic Service, 1997. Natural Resources Chart 1518-A, Salfisbury, Department of the Environment, Ottawa, scale 120 000.

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 integrated into a single regional coverage from multi-year, multi-sensor, acoustic backscatter data. The backscatter strength data were collected from 1993 to 2009 using five multibeam sonar systems in various configurations and map series (see Table 1 for details). The data processing and interpretation of the backscatter strength data can be undertaken by the existing knowledge of the sedimentary facies in the Bay of Fundy (e.g., Smith et al., 1985, 1973; Fisher and McLean, 1972; Fisher et al., 1977; Fisher et al., 2010).

REFERENCES

Arnott, C.L., Buckley, D.E., Debon, G.R., Dalrymple, R.W., MacCam, S.B. and Risk, M.J., 1980. Geomorphology and sedimentology of the Bay of Fundy. Geological Association of Canada, Field Trip Guidebook No. 824.
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Canadian Hydrographic Service, 1997. Natural Resources Chart 1518-A, Salfisbury, Department of the Environment, Ottawa, scale 120 000.

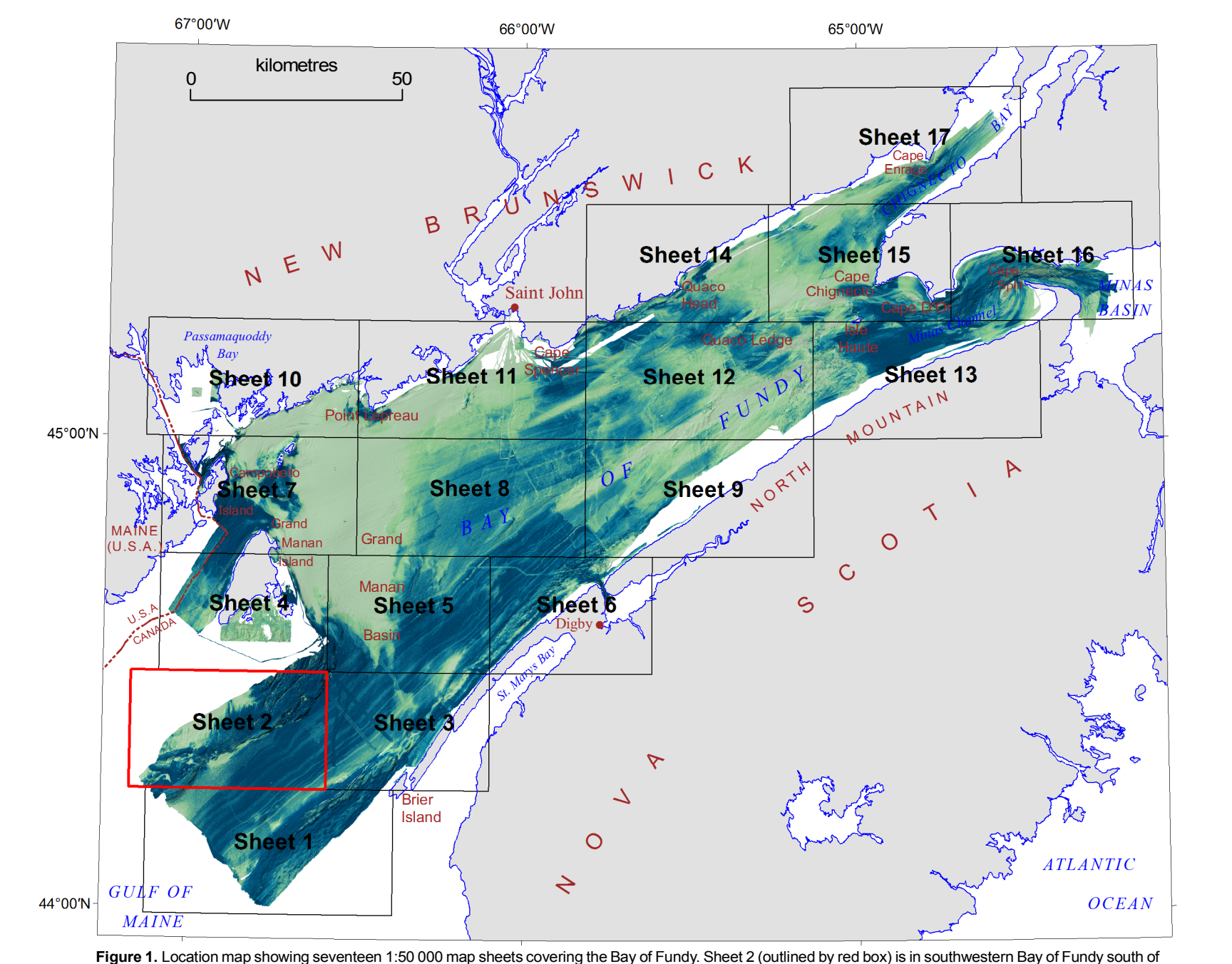


Figure 1. Location map showing 150 000 map sheets covering the Bay of Fundy. Sheet 2 (outlined by red box) is in the southern Bay of Fundy south of Grand Manan, Nova Brunswick.

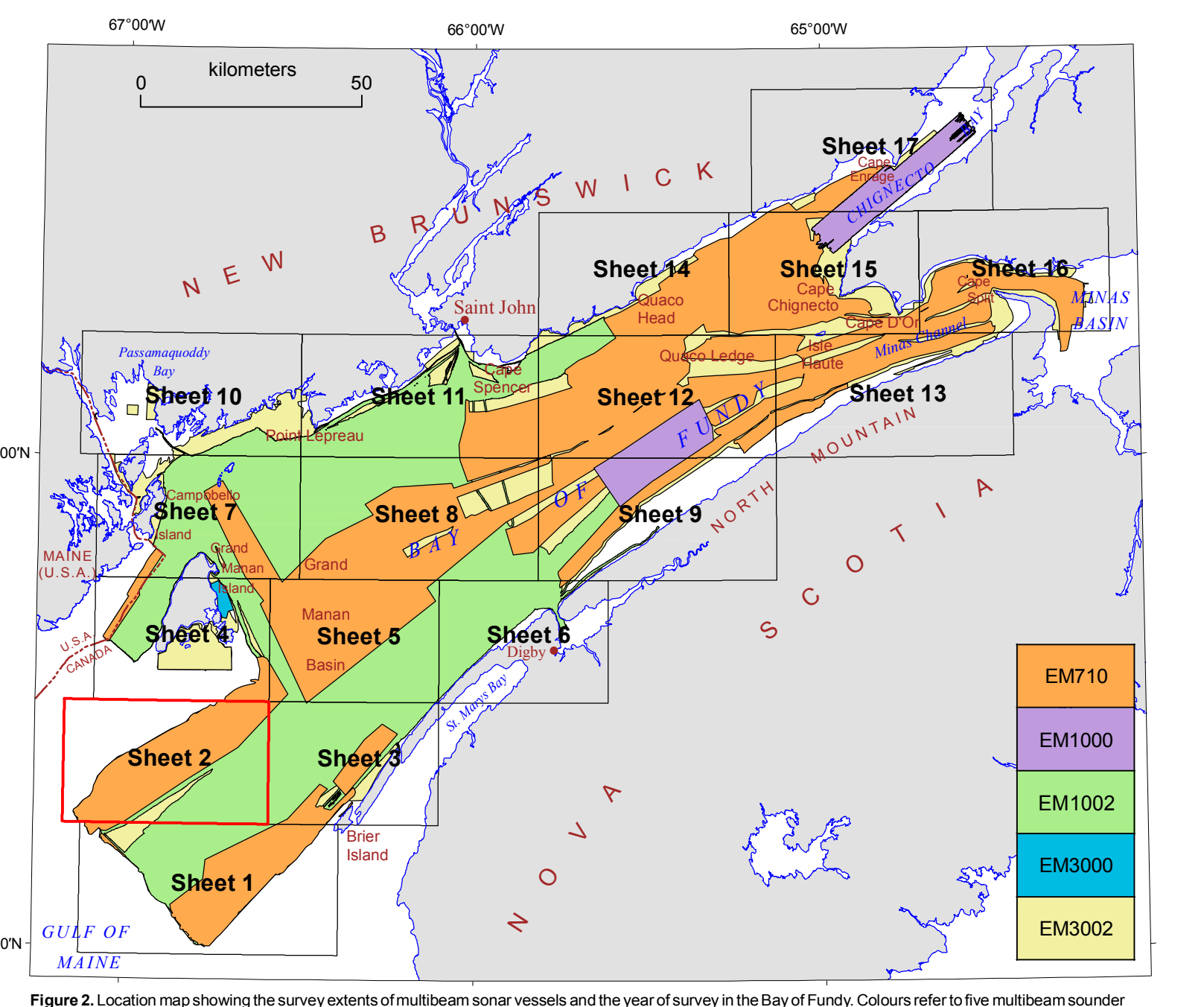


Figure 2. Location map showing the survey dates of multibeam sonar vessels and the year of survey in the Bay of Fundy. Colors refer to five multibeam sonar types and frequencies used in Table 1.

Metadata and technical information for the map. Includes:
- Authors: B.J. Todd, J. Shaw, D.R. Parrott, J.E. Hughes Clarke, D. Cartwright, and S.E. Hayward.
- Map title: BACKSCATTER STRENGTH AND SHADED SEAFLOOR RELIEF BAY OF FUNDY, SHEET 2 OFFSHORE NOVA SCOTIA-NEW BRUNSWICK.
- Scale: 1:50 000.
- Projection: Universal Transverse Mercator Projection.
- Magnetic declination: 2011, 17°21'N, decreasing 6.7' annually.
- Depth in metres below mean sea level.
- Open File 7023, Backscatter Strength and Shaded Seafloor Relief Bay of Fundy, Sheet 2.

OPEN FILE DOSSIER PUBLIC 7023. Metadata box containing file information and a small map of the region.

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