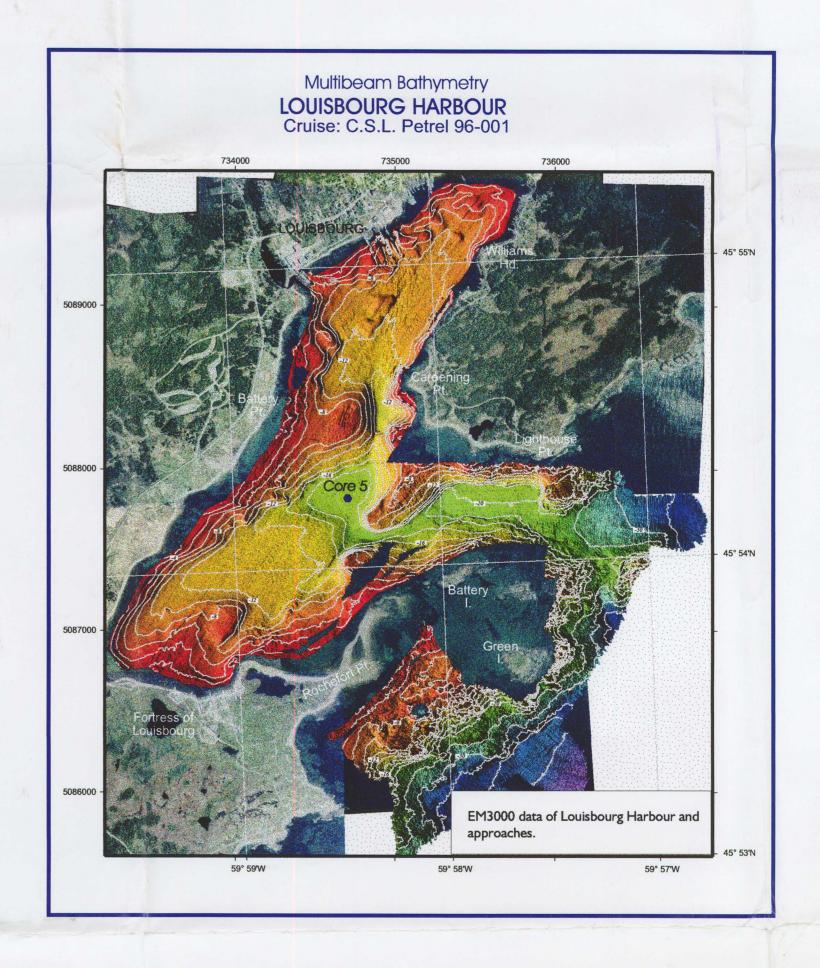
## Swath Bathymetry, Seismic Control & Core Locations off Gabarus Bay and Louisbourg Harbour

Panel I of 3

Geological compilation by H. Josenhans Digital compilation by J. Harding / R. Covill



The map illustrates a colour shaded relief image of seabed morphology based on swath bathymetric data. The location of 100 kHz sidescan sonar, Huntec DTS high resolution, and airgun deep penetration subbottom profiles are shown with annotated julian day and time of data collection. The location of piston and vibrocores used to ground truth the remotely sensed data is also shown. The swath bathymetric data seaward of Louisbourg Harbour was gridded into 10m horizontal intervals using EM 1000 data collected from "F.G.Creed" in October of 1996. Vertical resolution is 1% of water depth.

Higher resolution EM 3000 data were collected in Louisbourg Harbour (Taylor et al. 1977) and gridded at 1m horizontal intervals. The data were digitally processed into the colour shaded relief image of seabed morphology by "GRASS", a public domain imaging software developed by the US Army Corps of Engineers and modified by the Geological Survey of Canada (Atlantic).

## References

744000

739000

Campeau S. and Pienitz R., 1998, Paleoenvironmental analysis of the Gulf of St. Lawrence cores (Hudson 97-0580) report prepared by Universite du Laval.

Grant D.R., 1994, Quaternary Geology, Cape Breton Island, Nova Scotia. Geological Survey of Canada Bulletin 482.

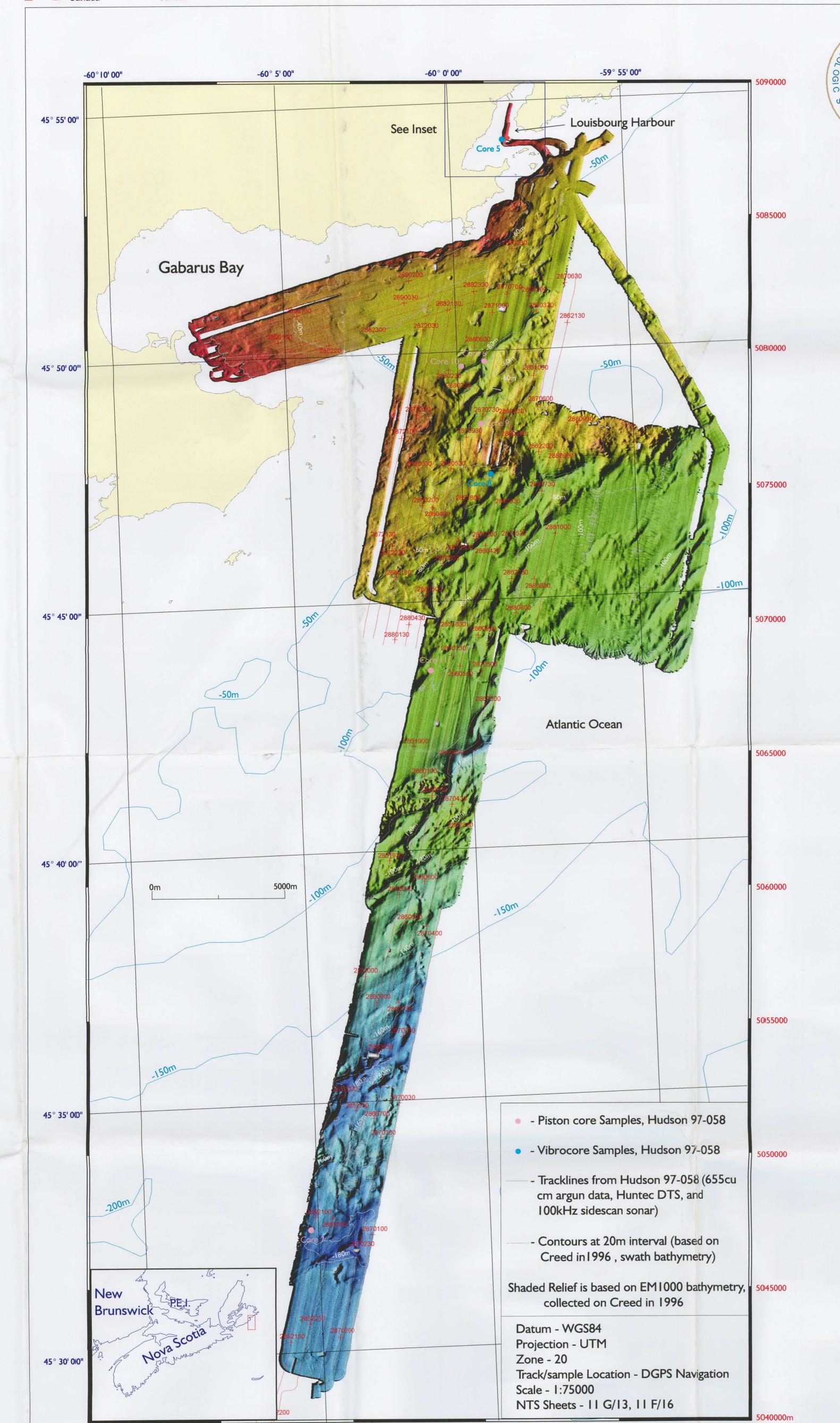
McClenaghan M. B. and Dilabio R.N.W., 1996, Ice-flow history and glacial dispersal patterns, southeastern Cape Breton Island, Nova Scotia: implications for mineral dispersal, Canadian Journal of Earth Sciences Vol.33 pp 351-362.

King L.H., 1970, Surficial Geology of the Halifax -Sable Island map area. Marine Science paper I 16pp.

King L.H., 1996. Late Wisconsinan ice retreat from the Scotian Shelf. GSA Bulletin vol. 108, pp. 1056-1067.

King L.H. and Maclean, B., 1976, Geology of the Scotian Shelf. Marine Sciences paper 7, Geological Survey of Canada paper 74-31.

Taylor R., Currie R., Josenhans H., MacGowan B., Crepaeu A. and Covill R., Cruise Report C.S.L. Petrel 96-001 Louisbourg and Approaches, Nova Scotia. GSC Open File #3504.



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