



DESCRIPTIVE NOTES

INTRODUCTION
The German Bank is a shallow, wide, and flat area of the Scotian Shelf off the eastern coast of Nova Scotia. It is the product of a 1987-2003 survey that used a multibeam system to map 100% of the seabed. Other sources include geological and bathymetric data for scientific interpretation. This map shows the surface topography of German Bank as a shaded relief map with contour lines at 10 m intervals. The map is based on a datum of 1984.000. Topographic contours are shown from the 100 m contour to the 1000 m contour. The map is based on a datum of 1984.000. Topographic contours are shown from the 100 m contour to the 1000 m contour.

GEOCENTRIC DATA
In order to provide geocentric data for the multibeam data, and to complement the bathymetric data, a geocentric data set was generated for the German Bank area. This data set includes geocentric coordinates for the multibeam data and for the bathymetric data. The geocentric data set was generated using the geocentric coordinates of the multibeam data and the bathymetric data. The geocentric data set was generated using the geocentric coordinates of the multibeam data and the bathymetric data.

SURFICIAL GEOLOGY
This map is based on a geocentric data set for the multibeam data and on a geocentric data set for the bathymetric data. The geocentric data set was generated using the geocentric coordinates of the multibeam data and the bathymetric data. The geocentric data set was generated using the geocentric coordinates of the multibeam data and the bathymetric data.

GLACIAL SEDIMENTS
This map is based on a geocentric data set for the multibeam data and on a geocentric data set for the bathymetric data. The geocentric data set was generated using the geocentric coordinates of the multibeam data and the bathymetric data. The geocentric data set was generated using the geocentric coordinates of the multibeam data and the bathymetric data.

POSTGLACIAL SEDIMENTS
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ACKNOWLEDGMENTS
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REFERENCE
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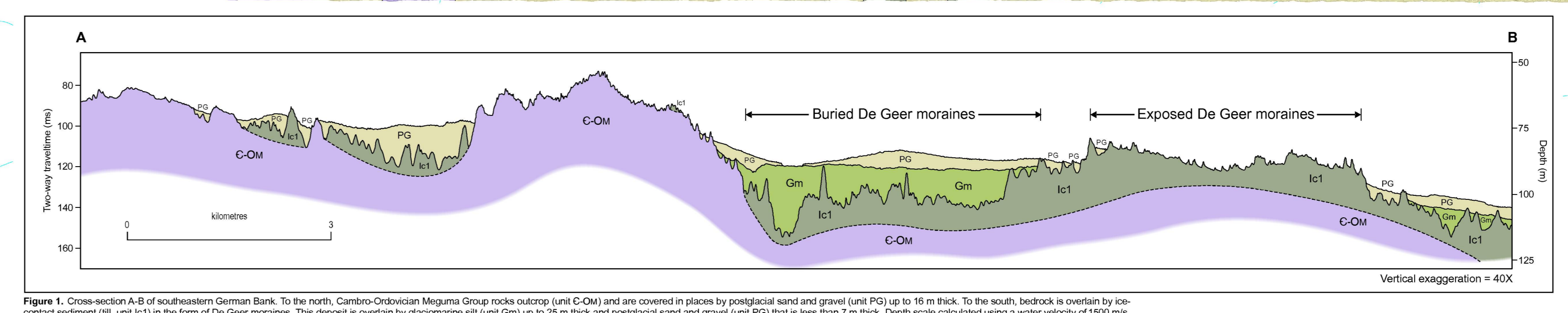
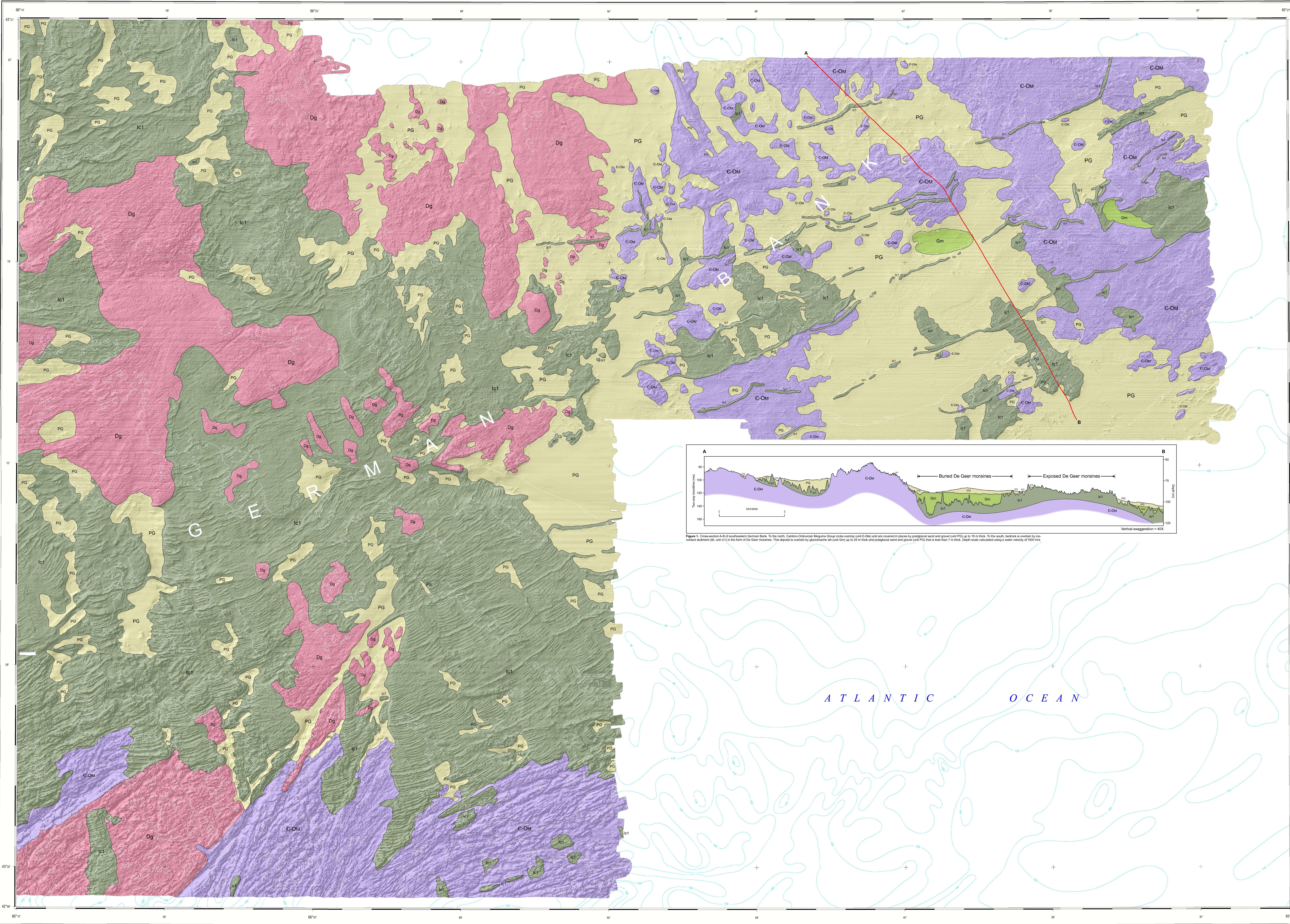


Figure 1. Cross-section A-B of the German Bank. To the north, Cambro-Ordovician Meguma Group rocks (C-OM) are covered in place by postglacial sand and gravel (PG) to 16 m thick. To the south, bedrock is covered by ice-contact sediment (Dg, Ic1) in the form of De Geer moraines. This deposit is overlain by glaciolacustrine silt (Ic1) up to 20 m thick and postglacial sand and gravel (PG) that is less than 7 m thick. Depth scale calculated using a water velocity of 1500 m/s.

LEGEND
QUATERNARY
POSTGLACIAL SEDIMENTS
PG Postglacial sand and gravel, and ice-contact silt and gravel from modern glacial till and deposits. Postglacial sediments are commonly covered by Sable Island Sand and Gravel.
Dg Devolvent
Ic1 Ice-contact sediment
PRE-QUATERNARY
C-OM Cambro-Ordovician
Dg Devonian
Gm Glaciolacustrine silt

Geological contact types boundaries are distinguished from sedimentary contact boundaries and postglacial unconformity surfaces by different colors. Symbols are provided for mapping geological contacts that map the geobase or are mapped in relief.

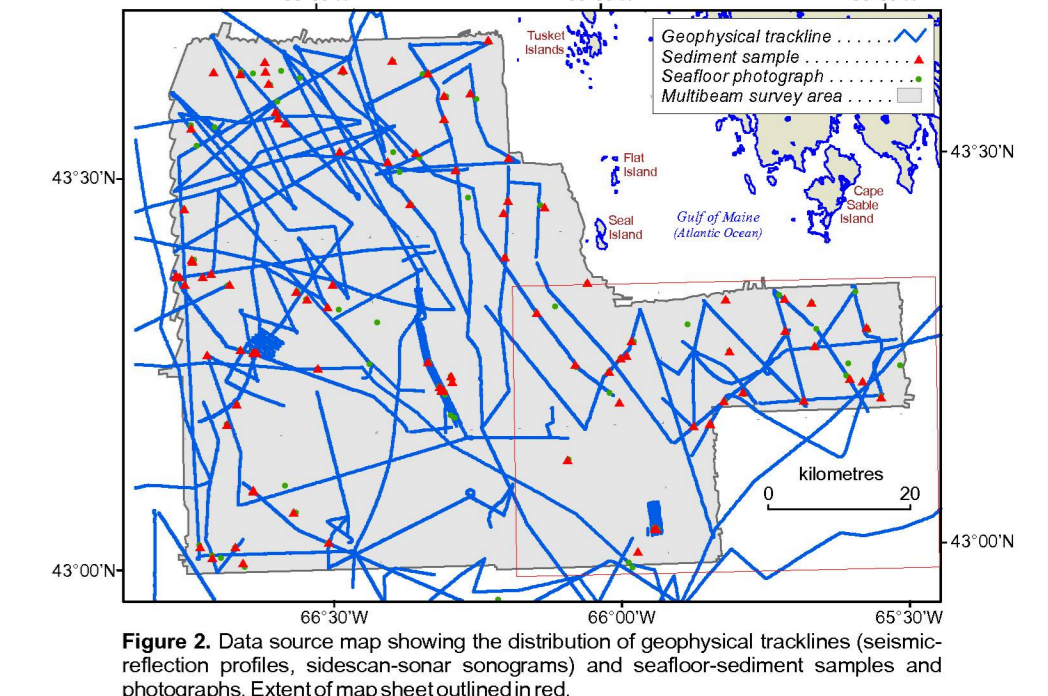


Figure 2. Data source map showing the distribution of geological features (ice-contact sediment, postglacial sand and gravel, and ice-contact sediment) and bathymetric data. Extent of the Scotian Shelf.

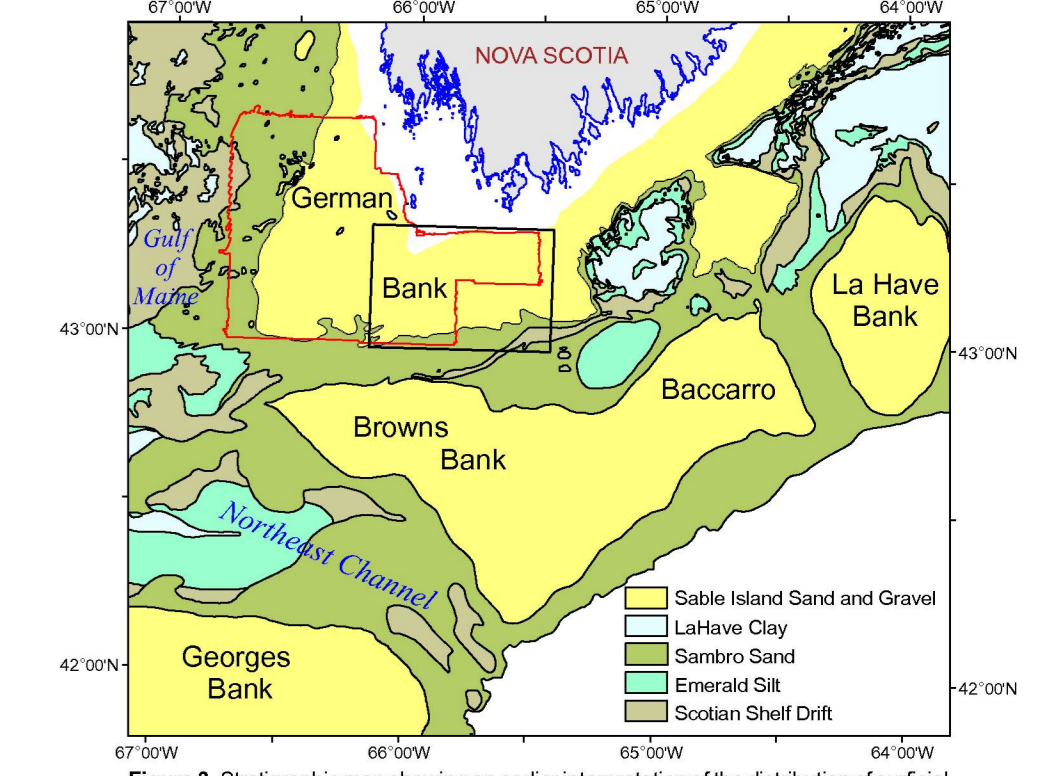


Figure 3. Stratigraphic map showing the distribution of geological units (ice-contact sediment, postglacial sand and gravel, and ice-contact sediment) and bathymetric data. Extent of the Scotian Shelf.

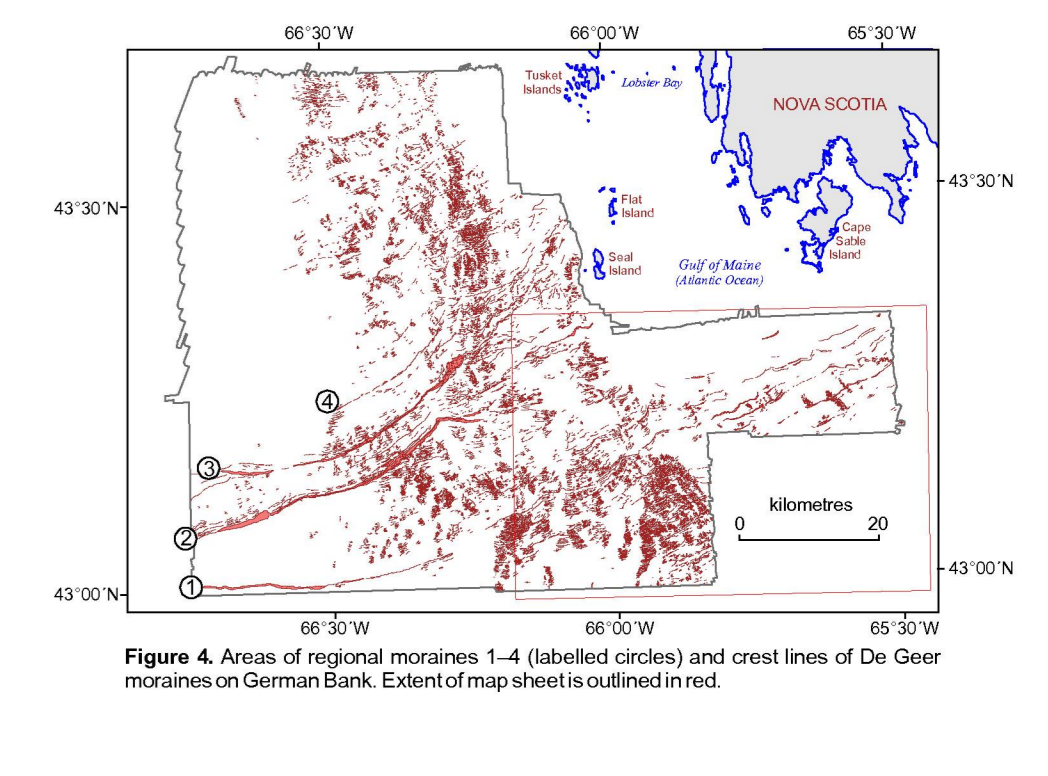


Figure 4. Map of De Geer moraines. Ice-contact sediment (Dg) and Ic1 lines of the De Geer moraines on German Bank. Extent of the Scotian Shelf.

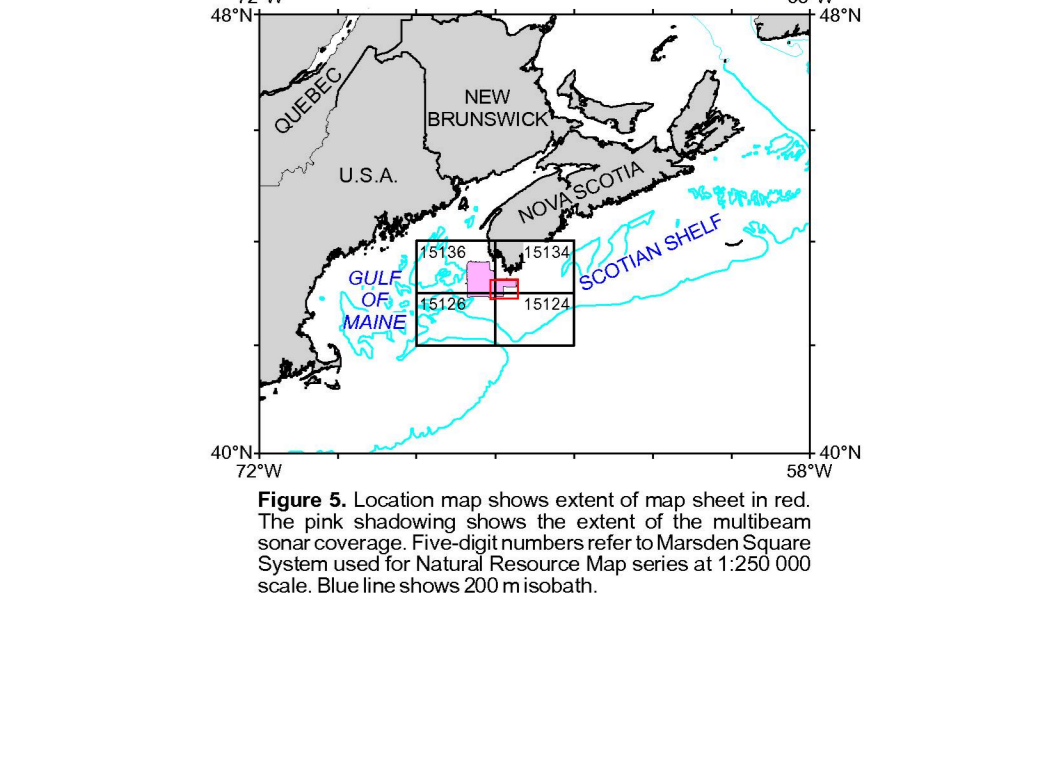


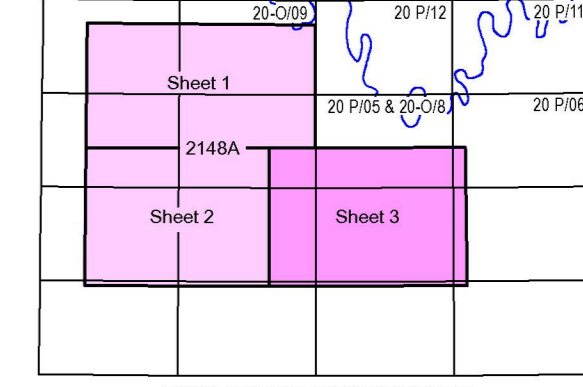
Figure 5. Location map showing extent of map sheet in context. The map shows the location of the German Bank area within the Scotian Shelf region of Nova Scotia. Extent of the Scotian Shelf.



Author: B.J. Todd
This map was produced by Natural Resources Canada in co-operation with Fisheries and Aquaculture Canada.
Geology by B.J. Todd, 2006-2008
Geological compilation by B.J. Todd, S.E. Hayward, W.A. Peltier, and R.D. Miller, 2001-2008
Digital cartography by P. O'Brien, Data Enhancement (DOD) and S. Hayward, GSC (2005)

MAP 2148A
SURFICIAL GEOLOGY AND SUN-ILLUMINATED SEAFLOOR TOPOGRAPHY
GERMAN BANK
SCOTIAN SHELF
OFFSHORE NOVA SCOTIA
Scale 1:50 000 (Scale 1:50 000)
Universal Transverse Mercator Projection
North American Datum 1983
The map is to be used for navigational purposes.

Any additions or additional information to this map would be welcome by the Geological Survey of Canada.
Digital bathymetric contours in metres supplied by the Canadian Hydrographic Service and GSC (Atlantic).
Magnetic declination 2005, 17°20' W, decreasing 6.1° annually.
Depth in metres below mean sea level.



Sheet 1 of 3: surficial geology and sun-illuminated seafloor topography.
Recommended citation:
Todd, B.J. Surficial geology and sun-illuminated seafloor topography of German Bank, Scotian Shelf, Atlantic Ocean, Geological Survey of Canada, Map 2148A, scale 1:50 000.