

Authors: B.J. Todd¹, P.C. Valentine², and J. Shaw¹ This map was produced by Natural Resources Canada in co-operation with Fisheries and Oceans Canada Multibeam bathymetric data collected by Canadian Hydrographic Service, Canadian Offshore Scallop Industry Mapping Group, and Clearwater Fine Foods Inc.,1999–2000 Multibeam bathymetric data compiled by Canadian Hydrographic Service and Geological Survey of Canada, 1999–2007

Digital cartography by P. O'Regan, Data Dissemination Division (DDD) and

S. Hayward, GSC (Atlantic)

MAP 2192A SHADED SEAFLOOR RELIEF GEORGES BANK, FUNDIAN CHANNEL, **AND NORTHEAST CHANNEL; SHEET 2 GULF OF MAINE**

Scale 1:50 000/Échelle 1/50 000 kilometres 1 0 1 2 3 4 kilomètres Universal Transverse Mercator Projection Projection transverse universelle de Mercator Système de référence géodésique nord-américain, 1983 North American Datum 1983 © Her Majesty the Queen in Right of Canada 2013 © Sa Majesté la Reine du chef du Canada 2013 This map is not to be used for navigational purposes Cette carte ne doit pas être utilisée aux fins de navigation

Any revisions or additional information known to the user would be welcomed by the Geological Survey of Canada Digital bathymetric contours in metres supplied by Canadian Hydrographic Services and GSC (Atlantic) Magnetic declination 2013, 16°40W, decreasing 5.9 'annually Some geographical names subject to revision

Depth in metres below mean sea level

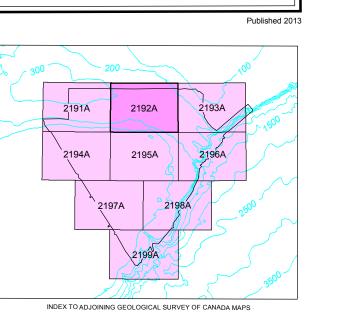


Figure 2. Data source map showing multibeam-sonar bathymetric survey coverage. Data were collected in area A in 1999 by the Canadian Hydrographic Service on the CCGS *Creed* using a Kongsberg EM1000 system, in area B in 1999–2000 by the Canadian Hydrographic Service and the Canadian Offshore Scallop Industry Mapping Group on the MV *Anne S. Pierce* using a Kongsberg EM1002 system, and in area C in 2000 by Clearwater Fine Foods Inc. on the MV *Anne S. Pierce* using a Kongsberg EM1002 system. Water depths are in metres.

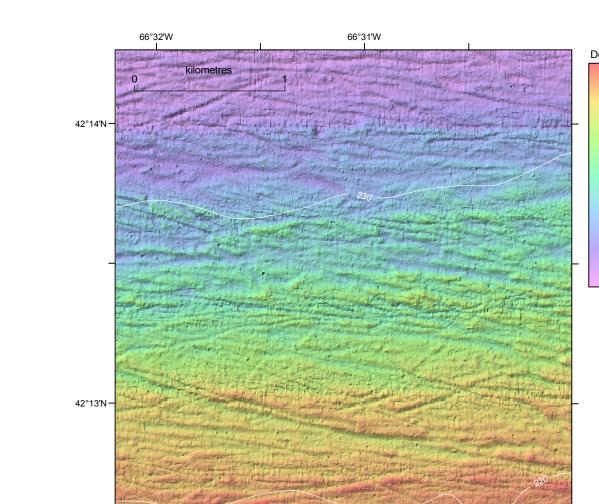
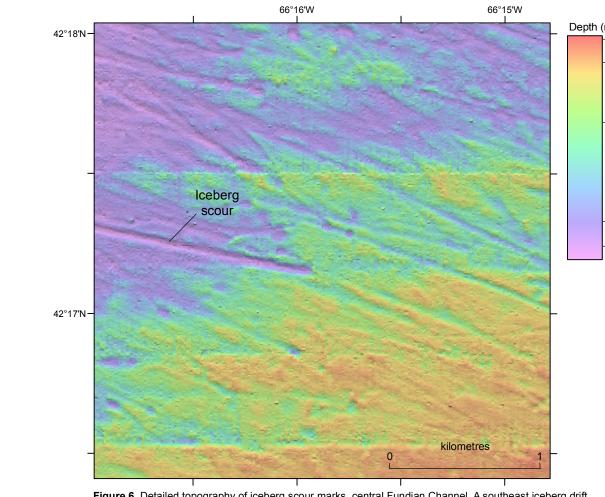


Figure 5. Detailed topography of iceberg scour marks, southern flank of Fundian Channel. The relative age of scour marks is determined by the crosscutting pattern; younger features crosscut older features. An eastward



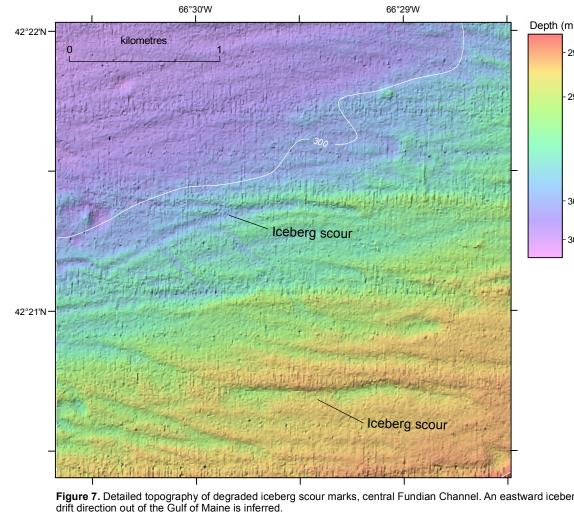


Figure 7. Detailed topography of degraded iceberg scour marks, central Fundian Channel. An eastward iceberg drift direction out of the Gulf of Maine is inferred.

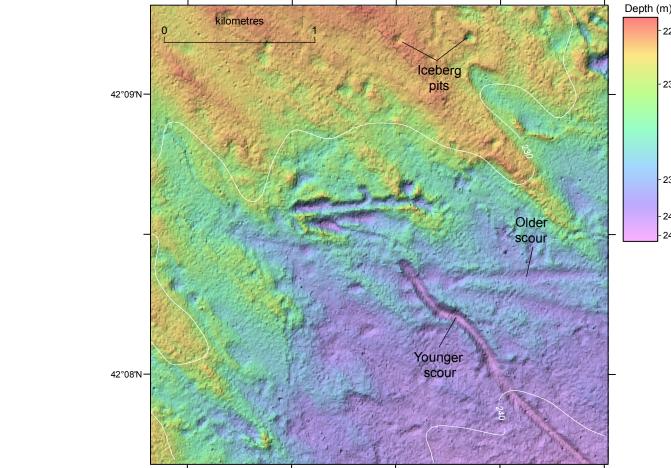


Figure 9. Detailed topography of flow-transverse sediment bedforms, central Fundian Channel (upper) and opographic cross-section (lower). The bedforms are symmetrical, up to about 8 m in height, with a wavelength of 400–500 m. Bedform crests are oriented southwest–northeast and the inferred direction of the current flow

Figure 4. Detailed topography of bathymetric depression parallel to the northern margin of Georges Bank (upper) and topographic cross-section (lower). The depression is