

Energy, Mines and Resources Canada
 Geological Survey of Canada

Énergie, Mines et Ressources Canada
 Commission géologique du Canada

MAP 1711A

QUATERNARY GEOLOGY OF THE CONTINENTAL MARGIN OF EASTERN CANADA

Scale 1:5 000 000 - Echelle 1/5 000 000

LAMBERT CONFORMAL CONIC PROJECTION, STANDARD PARALLELS 49°N AND 77°N; MODIFIED POLYCONIC PROJECTION NORTH OF LATITUDE 80°

PROJECTION CONIQUE CONFORME DE LAMBERT, PARALLÈLES D'ÉCHELLE CONSERVÉE: 49°N ET 77°N; PROJECTION POLYCONIQUE MODIFIÉE AU NORD DU 80° DE LATITUDE

Compiled by G.D.M. Cameron and M.A. Best. *Geology of the southeast Canadian margin* by G.B. Fader; *Labrador Shelf* by H. Josenhans; *Southeast and Northeast Baffin Shelves* by B. MacLean and D. Prang; other specific geological interpretations by C.L. Amos, M.A. Best, G.D.M. Cameron, A. Jennings, C. Powell, and G. Somichnean. Scientific co-ordinator D.J.W. Piper. Compiled 1984, with additions to 1988

LITHOLOGY	BAY OF FUNDY GULF OF MAINE SCOTIAN SHELF	NORTHUMBERLAND STRAIT	GRAND BANKS OF NEWFOUNDLAND	LABRADOR SHELF	SOUTHEAST BAFFIN SHELF	NORTHEAST BAFFIN SHELF	AGE
Sands and gravels	Sable Island Sand and Gravel (generally a veneer) 60m	Egmont Sand Butouche Sand and Gravel (in water depths 60 - 80m) 35m	Grand Banks Sand and Gravel (generally a veneer) 20m	Not present	Resolution Island Lap <0.5m	Cape Aston Sand and Gravel <5m	Holocene to latest Wisconsinan
Basinal muds (may contain ice-ratified debris in higher latitudes)	LaHave Clay 70m	Pugwash Mud 20m	Placentia Clay 30m	Makkag Clay 30m	Tinkartuq Mud <10m	Tinkartuq Mud <10m	Wisconsinan
Muddy sands and gravels	Sambro Sand (generally a veneer) 20m	Butouche Sand and Gravel (in water depths 60 - 80m) 10m	Adolphus Sand and Gravel (generally a veneer) 10m	Sioraq Sand (generally a veneer) 10m	Not present	Not present	Late Wisconsinan
Glaciomarine (poorly sorted)	Emerald Silt 140m	Malgash Mud 15m Henry Island sediment 80m	Downing Silt 90m	Okovik Silt 50m	Davis Strait Silt <70m	Davis Strait Silt <5m	Mid-Late Wisconsinan (locally earliest Holocene)
Glacial drift	Scotian Shelf Drift 100m	Pamquet Drift 40m	Grand Banks Drift 60m	Labrador Shelf Drift 300m	Baffin Shelf Drift <300m	Baffin Shelf Drift <50m	Predominantly Wisconsinan (probably some older deposits on Northeast Newfoundland, Labrador, Southeast and Northeast Baffin shelves)

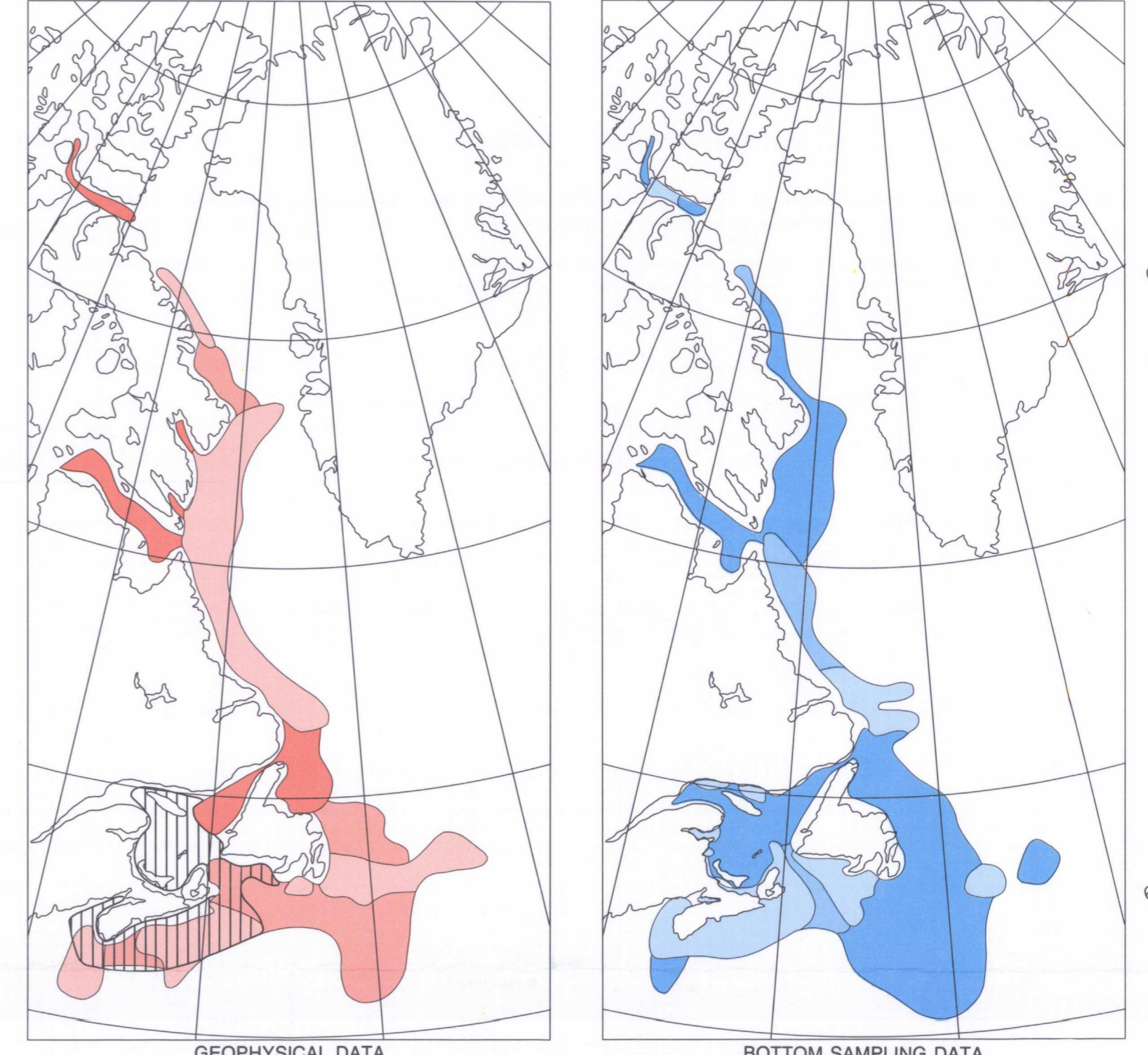
Geological boundary (defined, interpreted)
 Seaward limit of till occurrences (known, uncertain) - - - - -

Interpretations are based on both geophysical data and bottom sampling. The density of the data is shown in the accompanying figures. Maximum thickness of some units is given in metres in the correlation chart. Where data were not available or insufficient (primarily nearshore and deep water areas), the areas of the map have been left uncoloured.

Due to the preliminary nature of mapping, formation names have not been assigned in the Gulf of St. Lawrence, Northeast Newfoundland Shelf, Hudson Strait, and Arctic Island channels. In Gulf of St. Lawrence, where it was difficult to differentiate some lithologies, the areas are indicated by alternating colour bands to present the lithologies found (glacial drift, muddy sands and gravels, or sands and gravels).

In Hudson Strait and Arctic Island channels, areas mapped as drift may be thin or reworked glaciomarine silts; areas mapped as glaciomarine silts, locally have an overlying veneer of basinal muds.

Geological cartography by J. Pratt, Geological Survey of Canada
 Base map derived from Map 850-A Bathymetry, at the scale of 1:5 000 000 published by the Canadian Hydrographic Service, Department of Fisheries and Oceans, 1986
 Bathymetric contours in metres



GEOPHYSICAL DATA
 Huntec seismic and Sidescan <25km line spacing with argon seismic
 Huntec seismic and Sidescan 25-100km line spacing with argon seismic
 Area of abundant echogram coverage

BOTTOM SAMPLING DATA
 <1 sample/50km²
 1 sample/50-100km²
 >1 sample/50km²
 <1 sample/100km²

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Copies of this map may be obtained from the Geological Survey of Canada, 601 Booth Street, Ottawa, Ontario K1A 0E8, 3303 3rd Street, N.W., Calgary, Alberta T2S, 2A7



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