

Copies of this map may be obtained from the Geological Survey of Canada, 601 Booth Street, Ottawa, Ontario K1A 0E8, 3853-33rd Street, N.W., Calgary, Alberta T2L 2A7, 628 Robson Street, Vancouver, British Columbia V6B 5J3, 490, rue de la Couronne, Québec, Québec G1K 9A9, 1 Challenger Drive, P.O. Box 1106, Dartmouth, Nova Scotia B2Y 4A2

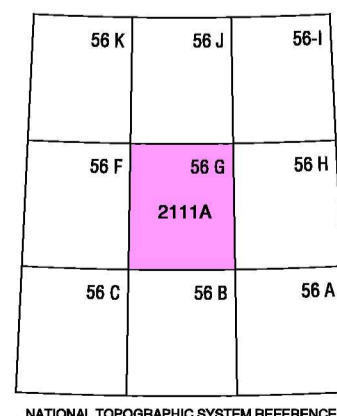


MAP 2111A
SURFICIAL GEOLOGY
WAGER BAY
NUNAVUT

Scale 1:250 000/Échelle 1/250 000

kilometres 5 0 5 10 15 20 kilomètres

Universal Transverse Mercator Projection / Projection transversale universelle de Mercator
North American Datum 1983 / Système de référence géodésique nord-américain, 1983
© Her Majesty the Queen in Right of Canada 2007 / © Sa Majesté la Reine du chef du Canada 2007



LEGEND

SURFICIAL DEPOSITS

QUATERNARY

HOLOCENE

- A** FLUVIAL DEPOSITS: gravel, sand, and boulders; 1–5 m thick; forming floodplain terraces and valley-bottom deposits.
- Mb** Marine blanket: sand, silt, and gravel; 2–10 m thick; forming continuous cover of littoral, sublittoral, and offshore sediments; forms plains and beach ridges.
- Mv** Marine veneer: sand, silt, and gravel; 0.5–2 m thick; discontinuous cover of littoral and offshore sediment; mimics surface of underlying till or bedrock.
- Lb** Glaciolacustrine blanket: mainly sand, with some silt and ice-rafted dropstones; 2–10 m thick; forming flat to undulating plains interspersed with small morainal ridges.
- Lv** Glaciolacustrine veneer: sandy sediments; 0.5–2 m thick; forming plains interspersed with till (northern areas) or outwash (southern areas).
- Gp** Glaciofluvial outwash: stratified gravel and sand; 2–15 m thick; locally kettled; grading to detritic sediments near marine limit; deposited in a proglacial environment as valley trains, terraces, and fans.
- Gr** Ice-contact deposits (eskers, kames, and subglacial channel deposits): poorly stratified or sorted sand to gravel; 5–20 m thick, forming ridges and hummocks; deposited in a subglacial environment along meltwater corridors.

EARLY HOLOCENE AND WISCONSINAN

- Tb** Till blanket: glacial diamiction; 2–10 m thick; forming undulating plains with fluted or drumlinized areas, and boulder fields; deposited mainly in a subglacial environment.
- Tv** Till veneer: glacial diamiction; 0.5–2 m thick; discontinuous cover mimicking topography of underlying bedrock.

PRECAMBRIAN

- R** BEDROCK: intact and frost-riven outcrop, mainly granite and gneiss, variously modified by glacial erosion; flat to hilly topography; some streamlined landforms; surfaces range from rough and weathered to glacially polished, weathered rock being common in uplands south of Ford Lake and Wager Bay.

- Geological boundary
- Prominent frost polygons
- Perched marine delta (elevation in metres)
- Beach ridge crests
- Marine washing limit, with elevation in metres
- Holocene fossil locality
- Glacial lake shoreline
- Glaciolacustrine delta
- Overflow channel or spillway from glacial lake
- Sublacustrine moraine
- Subglacial and proglacial meltwater channel (small, ephemeral)
- Subglacial meltwater corridor
- Ice-marginal meltwater channel; barb on upslope side
- Esker
- Area of sheetwash, characterized by boulder lags
- Kame or conical gravel hill
- End moraine
- Drumlinoid ridge
- Rock-crag and till-tail form
- Glacially plucked bedrock (rocha moutonnée)
- Crossed striae (numbers indicate relative age, 1 being the oldest)
- Striation (ice-flow direction known, unknown)
- Glacially formed lineation, undifferentiated
- Glacial trough eroded into bedrock (ice-flow direction shown)
- Gossan
- Isolated bedrock outcrop
- Ground observation and sample site

REFERENCES

- Dredge, L.A. and McMartin, I., 2006a: Glacial lakes in the Wager Bay area, Kivalliq, Nunavut; Geological Survey of Canada, Current Research 2005-B1, 7 p.
- 2005b: Postglacial marine deposits and marine limit determinations, Inner Wager Bay area, Kivalliq region, Nunavut; Geological Survey of Canada, Current Research 2005-B3, 5 p.
- Dredge, L.A., McMartin, I., and Ford, K., 2005: Till geochemistry, gamma ray spectrometry and gold grain counts, Wager Bay area, mainland Nunavut (NTS 56 G); Geological Survey of Canada, Open File 5014, 189 p.
- Dredge, L.A., McMartin, I., and Kjarsgaard, L.M., 2006: Kimberlite indicator minerals in till from the Wager Bay area, mainland Nunavut: data and interpretation (NTS 56 G); Geological Survey of Canada, Open File 5067, 45 p.
- McMartin, I. and Dredge, L.A., 2005: History of ice flow in the Schultz Lake and Wager Bay areas, Kivalliq region, Nunavut; Geological Survey of Canada, Current Research 2005-B2, 10 p.
- McMartin, I., Dredge, L.A., and Robertson, L., 2005: Ice flow maps and datasets: Schultz Lake (NTS 56 A) and Wager Bay (NTS 56 G) areas, Kivalliq region, Nunavut; Geological Survey of Canada, Open File 4926 (data with maps, scale 1:250 000).

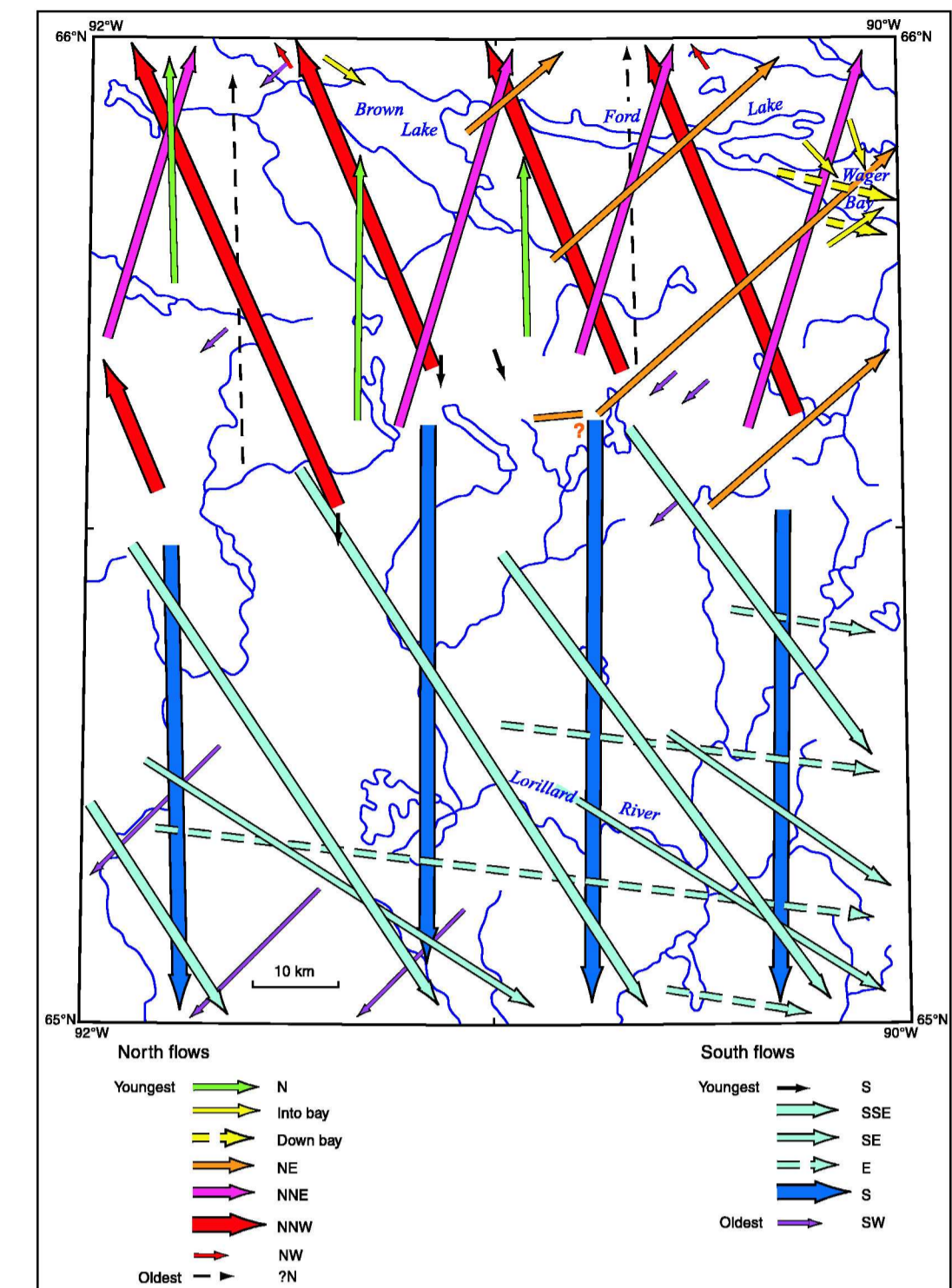


Figure 1. Ice-flow history.

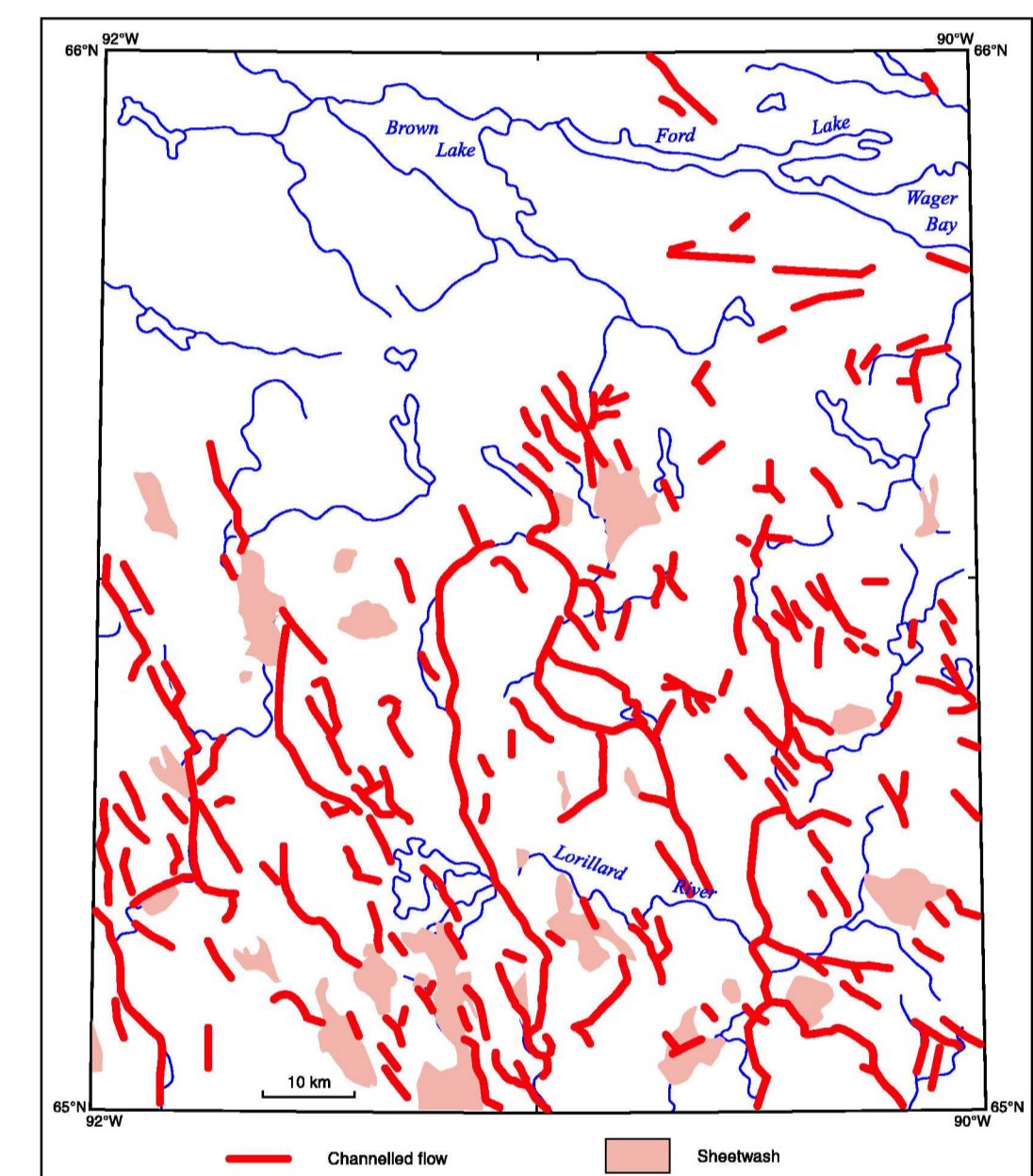


Figure 2. Subglacial meltwater systems.

Authors: L.A. Dredge and I. McMartin

Geology based on fieldwork by L.A. Dredge and I. McMartin, 2004

Digital compilation by L. Robertson, GSC Northern Canada Division, 2006

Digital cartography by D. Viner, Data Dissemination Division (DDD)

This map was produced from processes that conform to the Scientific and Technical Publishing Services Subdivision (DDD) Quality Management System, registered to the ISO 9001:2000 standard

Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Digital base map from data compiled by Geomatics Canada, modified by DDD

Proximity to the North Magnetic Pole causes the magnetic compass to be erratic in this area. Mean magnetic declination 2007, 12°43' W, decreasing 4.3' annually. Readings vary from 10°17' W in the SW corner to 15°22' W in the NE corner of the map

Elevations in metres above mean sea level