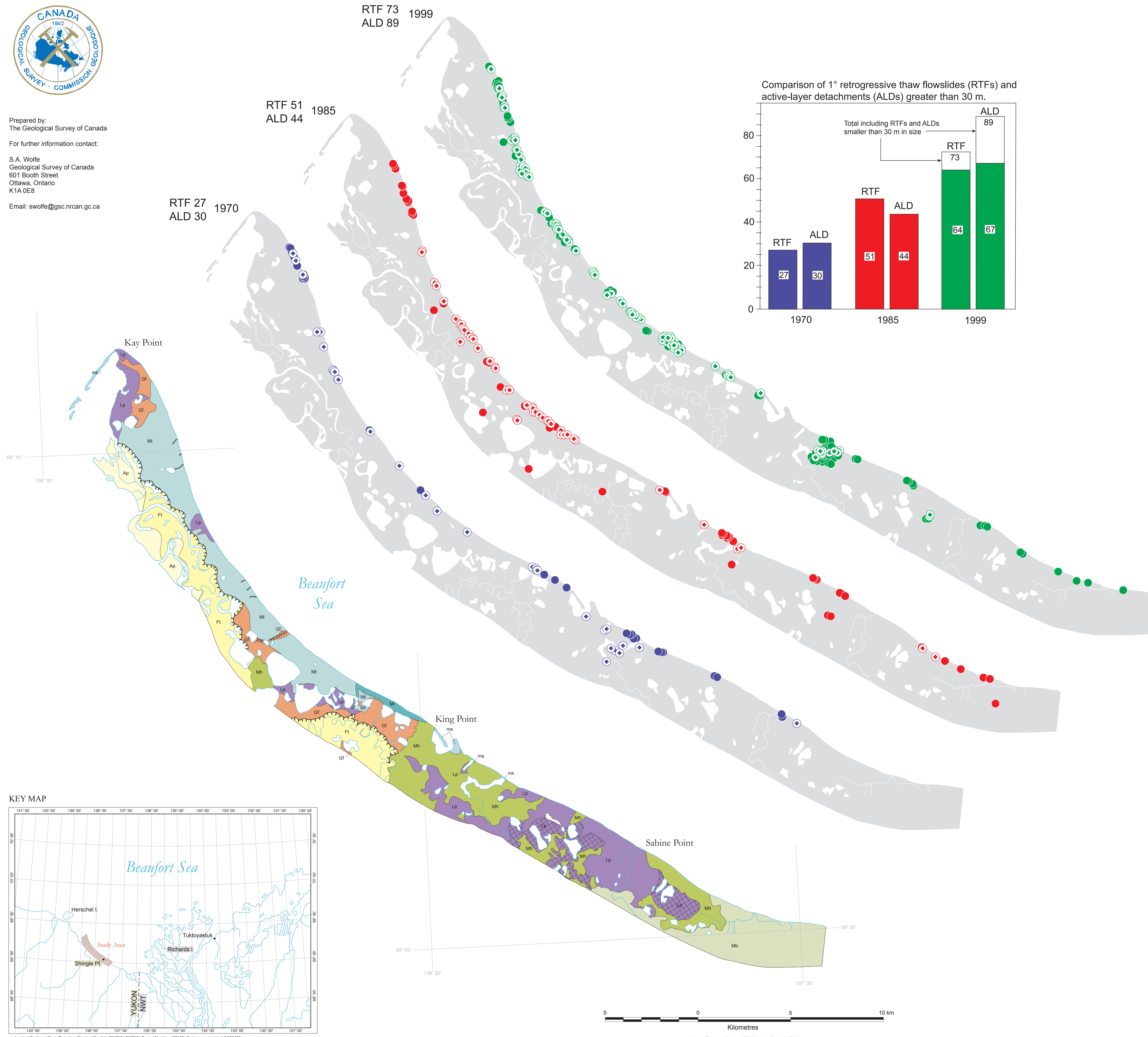


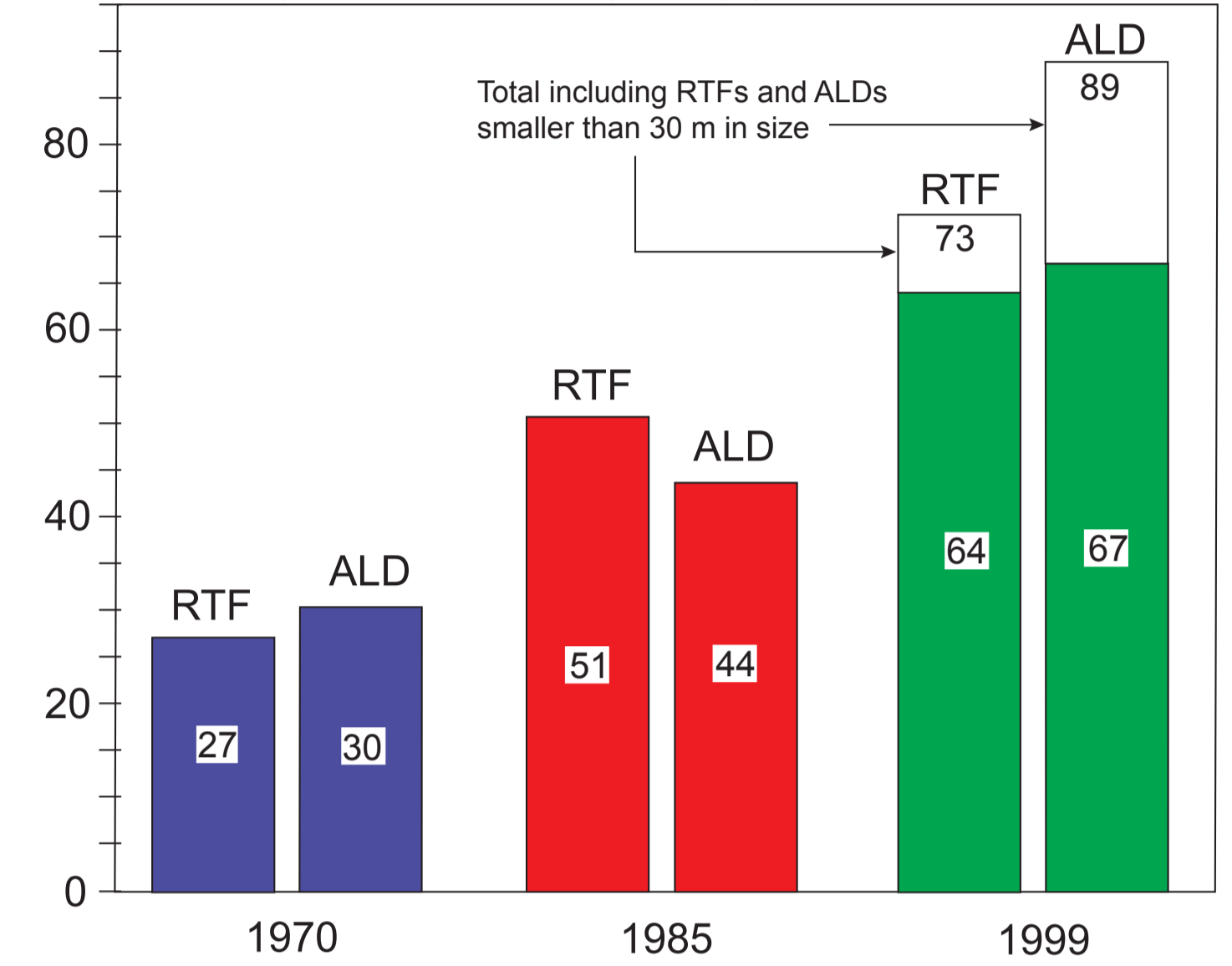
Distribution of active thaw landforms (1°) along the Yukon Beaufort Sea coast from 1970 to 1999



Prepared by:
The Geological Survey of Canada
For further information contact:
S.A. Wolfe
Geological Survey of Canada
601 Booth Street
Ottawa, Ontario
K1A 0E8
Email: swolfe@gsc.nrcan.gc.ca

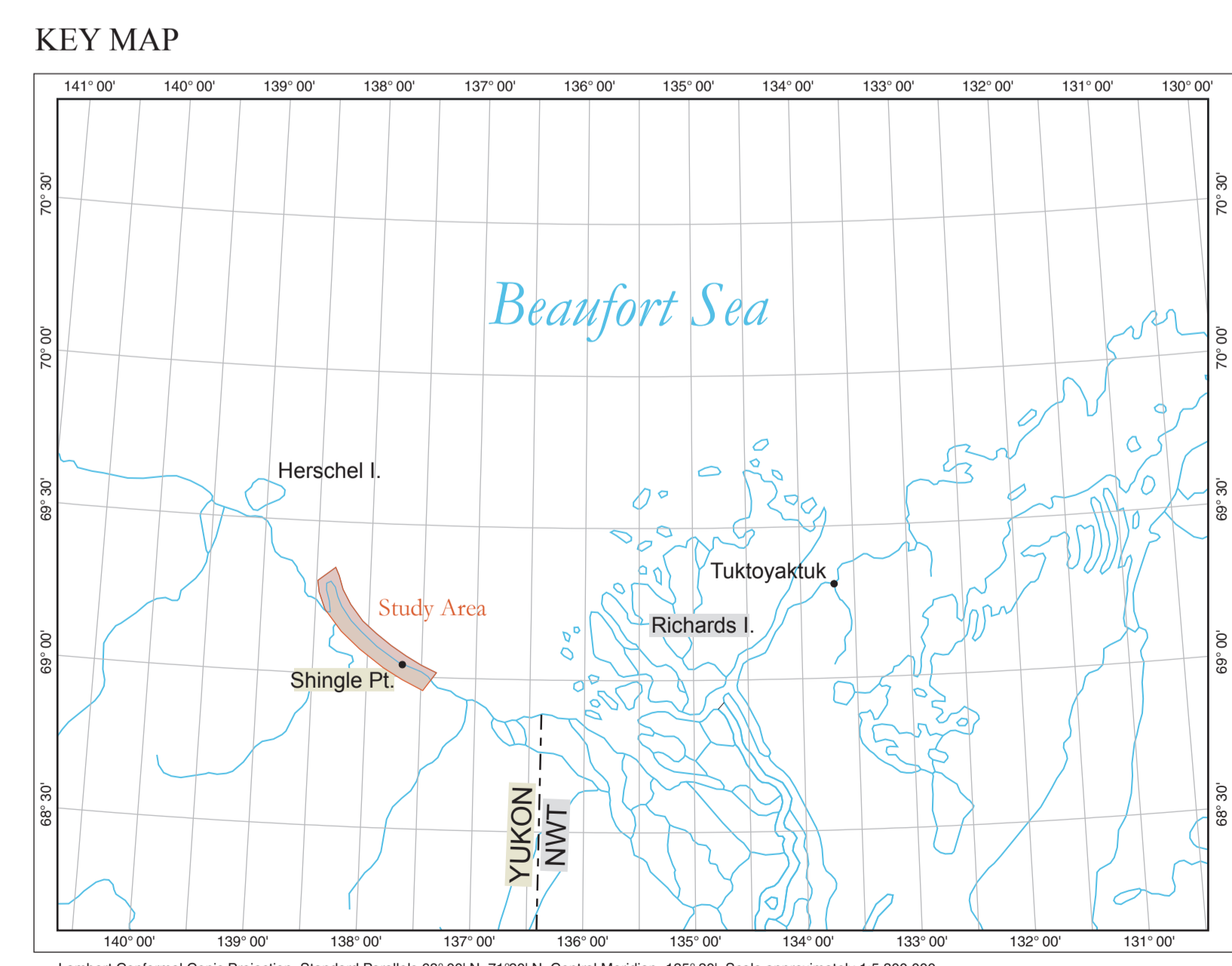


Comparison of 1° retrogressive thaw flowslides (RTFs) and active-layer detachments (ALDs) greater than 30 m.



RETROGRESSIVE THAW FLOWSLIDES	
1°	Exposed, icy headwall, thickest at maximum extent of slump and decreasing sideways; no established vegetation in slump.
2°	Some headwall, but sloughed in; green vegetation, often mastodon plant.
3°	No headwall, grass dominates slump.

ACTIVE LAYER DETACHMENTS	
1°	Failure to depth of active layer, consistent thickness around failure; no exposed icy headwall, push debris; flow follows topography; no established vegetation.
2°	Established vegetation, form of failure preserved.



LEGEND	
QUATERNARY	
POST-BUCKLAND DEPOSITS	
ms	Marine spit (modern); silt, sand and gravel occurring as low-relief offshore spits and coastal barriers
Ap	Alluvial floodplain (modern); sand and gravel of the modern Babbage River
Ft	Fluvial terrace; sand and gravel forming low-level terraces in the Babbage and Deep Creek drainages
Lp	Lacustrine plain; flat-lying, fine-grained deposits with variable peat cover well-developed ice-wedge polygons
BUCKLAND-AGED DEPOSITS	
Gf	Glacio-fluvial outwash; fan or terrace, sand and gravel, low relief
Mb	Till blanket; low relief, low massive ice content
Mh	Hummocky till; may exceed 10 m thickness, contains significant amounts of massive ice
Mt	Ice-thrusted deposits with till cover; deformed, high-relief ridges composed of till and pre-glacial deposits
Mr	Ice-thrusted deposits; deformed, high-relief ridges composed of pre-glacial deposits, including fluvial gravels
PHYSIOGRAPHY	
+	gully
U	stream-cut escarpment
W	outwash channel
X	thermokarst terrain
●	retrogressive thaw flowslide
○	active-layer detachment

Surficial geology modified from Rampton, 1982

