characterized by frost polygons and a cover of peat and sedge meadows.

Also includes recently drained lake basins.

SURFICIAL DEPOSITS

Ac ALLUVIAL DEPOSITS: silt, sand, gravel, cobbles, and boulders deposited in channels or on floodplains of modern active drainage systems; "modern" is defined as the period since retreat of the sea, which can be up to 8000 years, depending on elevation above sea level.

> MARINE DEPOSITS: sediments deposited in or at the margin of the marine environment; glacial deposits modified by marine processes. All sediments represent offlap conditions as a result of continuous isostatic uplift.

MA R/MA Deepwater (depths greater than wave base) sediments and postdepositional Well drained surfaces characterized by mudboils; poorly drained surfaces MA: clay, silt, and sand washed from slopes into deep water by wave action

Parallel strandlines or other slight irregularities in the surface have disrupted during emergence or deposited offshore from river mouths; marine sediments normal drainage, resulting in shallow dammed lakes, extensive areas of commonly overlain by peaty organic material; may include pockets of tundra ponds, and a network of tiny rivulets cutting through the organic mat. R/MA: surface composed of sediment of undetermined thickness and 20 to 80% bedrock outcrop, or less than 1 m of deposit mantles bedrock. Mn Mn1 R/Mn Nearshore sediments:

deltaic sediments; may include ice-pushed ridges; commonly unvegetated.

gravel deposits on beach-covered slopes probably caused by freezing of R/Mn: surface composed of sediment of undetermined thickness and 20 to resulting in doming of the frozen overlying sediments and subsequent periodic outflow of groundwater through subterranean conduits in limestone, downslope movement of sediment during the thaw period. MnA: sand, gravel, and cobbles forming ridges parallel to former shorelines, with intervening flat areas of peaty organic deposits resulting from poor drainage; ridges comprise more than 25% of area. R/MnA: surface composed of sediment of undetermined thickness and 20 to 80% bedrock outcrop. Mw: sand deposited as a thin sheet on the coastal plain by migrating shoreline; likely derived from wave reworking of marine clayey sand or silty

Md Mdn Deltaic sediments: isostatically uplifted deltaic sand and gravel.

Mdn: deltaic sediments covered with distinct beach ridges which form a chevron pattern curving back from the river on both banks.

GLACIAL DEPOSITS: sorted and unsorted sediments deposited by, on, or Glaciofluvial sediments: ice-contact stratified sand and gravel deposited as eskers in ice tunnels by meltwater streams; pebble surface, boulders scarce; commonly enriched in Precambrian erratics in contrast to surrounding, nearly

Th R/Th Till: calcareous, clay- and silt-rich till with sparse clasts; contains erratics specific to Quebec mainland; includes undifferentiated pockets of fine circles, and small frost polygons (cell size <1 m). Th: hummocky till: irregular hummocks, 100-300 m diameter and 5-10 m high; probably marks zones of ice stagnation. R/Th: surface composed of sediment of undetermined thickness and 20 to

80% bedrock outcrop. Tr: ribbed (Rogen) moraine: hummocks and straight to sinuous ridges generally less than 1.5 km long; ridge may be asymmetric in cross-section with steep side facing down-ice; ridges commonly oriented transverse to direction of ice flow. R/Tr: surface composed of sediment of undetermined thickness and 20 to 80% bedrock outcrop.

Till and marine sediments, undifferentiated: till veneered by fine grained marine sediments or depressions in till surface filled by marine sediments or diamicts consisting of mixtures of till and marine sediments resulting from cryoturbation processes.

R/TM: surface composed of sediment of undetermined thickness and 20 to 80% bedrock outcrop.

ROCK

R Ordovician and Silurian carbonate rocks: surface comprises more than 80% Bedrock generally frost shattered and jointed; abundant evidence of solution

Geological boundary

Small bedrock outcrop

Fluting or other glacier-inscribed linear feature Ribbed (Rogen) moraine ridges

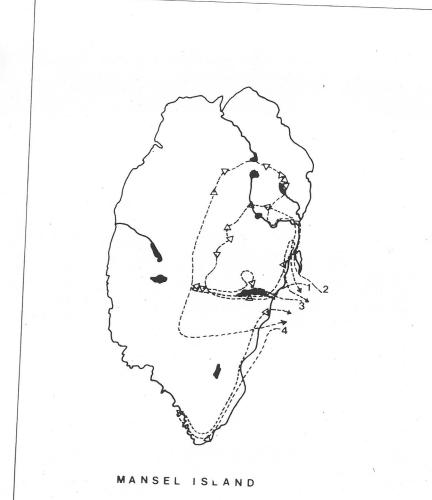
De Geer moraines

Esker (direction of flow assumed)

Nearshore ridges: beaches, bars, spits and ice-pushed ridges Recently drained lake basin

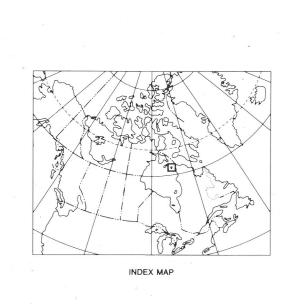
 Hummocky gravel deposit on beach-covered slopes ▲ Small alluvial fan

Geology by J.M. Aylsworth and W.W. Shilts, based mainly on airphoto interpretation with limited ground observations and sampling, 1979.



Traverse line

△ Ground observation site



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GEOLOGICAL SURVEY OF CANADA 35 L & E & 45 H & I DEPARTMENT OF ENERGY, MINES AND RESOURCES H U D S O NQUIS D'EXACTITUDE

Produced, 1969, by the SURVEYS AND MAPPING BRANCH, DEPARTMENT OF ENERGY, MINES AND RESOURCES. Field surveys 1968. Printed 1970.

Magnetic declination 1969 varies from 30°13' westerly at centre of west edge to 33°12' westerly at centre of east edge. Mean annual change 14.7' easterly. The daily change of the North Magnetic Pole causes

For complete reference see reverse side.

SURFICIAL GEOLOGY

DISTRICT OF KEEWATIN NORTHWEST TERRITORIES

Établie en 1969, par la DIRECTION DES LEVÉS ET DE LA CARTOGRAPHIE, MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES. Levés sur le terrain en 1968. Imprimée en 1970. La déclinaison magnétique pour 1969 varie de 30°13′ Ouest au centre de la limite Quest à 33°12' Quest au centre de la

limite Est. Variation moyenne annuelle 14.7' Est. ; La variation diurne du pôle Nord magnétique affole le compas magnétique dans cette région, 💉 Pour une liste complète des signes, voir au verso.

