

LEGEND

Notes: Some map units and symbols shown in the legend may not appear on this map.

SURFICIAL DEPOSITS

NONGLACIAL ENVIRONMENT

ALLUVIAL DEPOSITS: stream-deposited material within modern active drainage systems; "bedrock" is defined as glacial or glacial ice.

Ac Alluvium: silt, sand, and gravel deposited in channels in the floodplains; may include alluvium in terraces formed as streams cut to present level in glacial and marine contemporary fill.

Ad Deltaic sediments: sand, gravel, and boulders deposited where modern streams enter lakes or Hudson Bay.

NONGLACIAL AND GLACIAL ENVIRONMENT

MARINE DEPOSITS: materials deposited in the Tyrrell Sea and glacial deposits modified by marine processes.

Mp Coastal (sublittoral) flat sediments: complex of poorly sorted silt and sand with occasional coarse marine sand and gravel; wind-blown sand, and marine clayey silt; probably a silt plain formed by filling of depressions and planation by wave action during emergence.

Mm Offlap sediments: thin sheet of sand deposited by a migrating shoreline; thought to be a lag developed by wave reworking of marine clayey sand or silty sand; generally associated with Mp.

Md Deltaic sediments: sand, silt, and gravel deposited in the Tyrrell Sea by glacial or nonglacial streams.

Mh Nearshore sediments: generally well sorted sand, gravel, cobbles, or boulders deposited as beaches, bars, spits, and lagoon ridges.

Ms Offshore sediments: clay-silt and silty sand deposited in a deep water environment; may occur anywhere below marine limit but distribution is patchy above 60 m a.s.l.; thickest deposits generally are found in major river valleys; some silt with minor coarse sand; prominent vertical pattern on airphotos; No settled pattern on airphotos.

AM Alluvium and marine sand or silt, undifferentiated: flat areas consisting of modern alluvium mixed with silt and sand that was washed from slopes by wave action or deposited in the sea by meltwater streams.

Ab Alluvium and outwash gravel, undifferentiated: flat areas occurring in stream valleys or abandoned channels above marine limit.

Tm Till and marine silt, undifferentiated: till-covered landforms blanketed by marine sediments.

GLACIAL ENVIRONMENT

Qa Ice-contact stratified drift: sand and gravel deposited near ice margin; in, over, or around ice or in ice tunnels; commonly as eskers but includes isolated hummocky deposits of uncertain origin.

Qs Esker and outwash: sand, gravel, and silt with terraced, hummocky, and kettled surfaces.

Qd Sand and gravel deposited by subglacial meltwater streams; cutting from an esker summit and flowing between subglacial ridges and valleys; in areas above marine limit; includes outwash fans and materials on the floor or at the mouth of meltwater channels; see silt, sand, and fine gravel; some origin as unit Qs but represents distal fine sediments debouching from an esker tunnel into the sea.

Qh Disintegration moraine: silt, sand, and gravel, undifferentiated; occurs as short ridges or hummocks; thought to be deposited in situ and crevasse; in latest ice ridge orientation may form a reticulate pattern.

Till DEPOSITS: poorly sorted sediments with distinctive forms deposited directly by glacial ice.

Tp Till plain: generally sandy, silty, noncalcareous grey till with 25 per cent clay-sized particles; includes areas of clay-rich red till; prominent striped pattern on airphotos.

Ts Ribbed (Rogen) moraine: generally bouldery till; in place sand and gravel; forming hummocks and straight to sinuous ridges; generally less than 1 m high and 2 to 10 m high; ridges generally oriented at right angles to flow (ridges parallel to direction of ice flow).

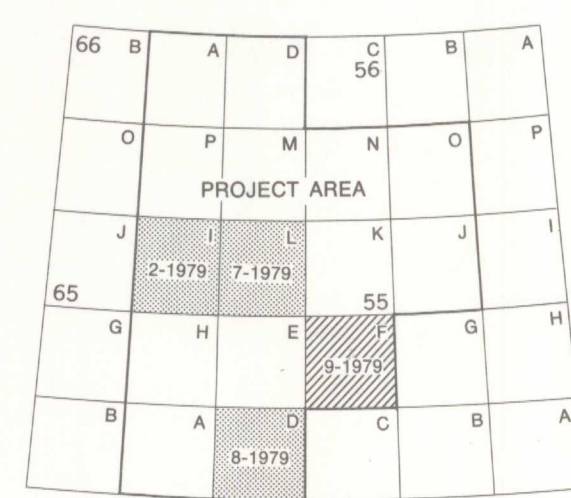
Tn Hummocky till: silt without significant boulder cover; occurs as hummocks; includes ridges of till that are minor and moraines or ridges remnants between subparallel meltwater channels.

ROCK

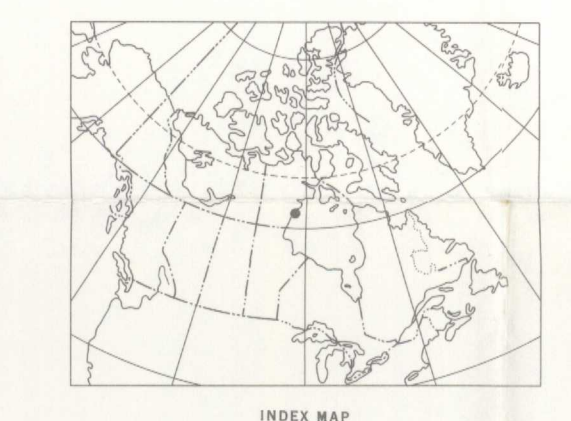
R Precambrian intrusive igneous and metamorphic rocks, red volcanic rocks, and unmetamorphosed sediments.

R Surface comprises more than 80 per cent outcrop.

R Surface comprises 20 to 80 per cent outcrop or bedrock is mantled with an average of less than 1 m of the surficial deposit indicated.



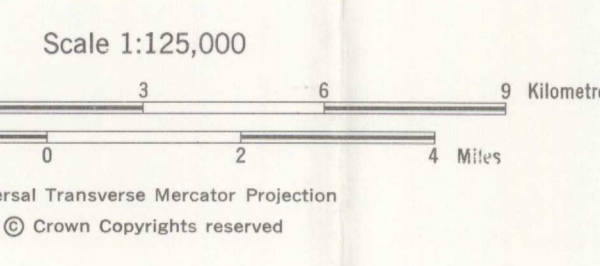
NATIONAL TRANSVERSE METER REFERENCE AND INDEX TO ADJOINING GEOLOGICAL SURVEY OF CANADA MAPS



INDEX MAP

GEOLOGICAL SURVEY OF CANADA
 COMMISSION GÉOLOGIQUE DU CANADA
 DEPARTMENT OF ENERGY, MINES AND RESOURCES
 MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES

MAP 9-1979
 SURFICIAL GEOLOGY
DAWSON INLET
 DISTRICT OF KEEWATIN



Scale 1:125,000
 Universal Transverse Mercator Projection
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Symbols

Small bedrock outcrop.....

Drumlin or fluting (direction of ice flow known, unknown).....

Crag and tail (direction of ice flow known, unknown).....

Linear feature related to ice flow but obscured by siltification processes, water-laid deposits, wave reworking, or trees.....

Glacial striae (direction of ice movement known, unknown).....

Location of measurement at centre of staff; older striae drawn with broken staff.....

Trend of ribbed or near moraine ridges.....

Hummocky moraine.....

Deliver (ribbed), straight, approximately 2 m-high and moraine ridges built parallel to an ice front; possibly deposited annually by flowing ice submerged in a sea or lake.....

Area of ridges formed by pack-ice shore.....

Trend of nearshore moraine ridges originating as beaches, bars, near spits, and ice-lobed ridges.....

Esker (direction of flow known, unknown) may be confined with or obscured by nearshore features; projected beneath water surfaces where known or inferred.....

Meltwater channel, steep-sided channel commonly cut in bedrock or till.....

Permanently drained postglacial lake basin; may include deposits of silty sediment with up to 15 per cent organic carbon.....

Turbidite lens, contains continual load of suspended sediment during ice-free periods; rarely occurs above marine limit and indicates instability or alteration of the active layer due to wave washing or siltification processes.....

Limit of marine submergence.....

Escarpment, generally in unconsolidated sediments.....

Palisade feature.....

Saline deposits, commonly formed where ice shore or bank failures have disrupted the vegetation and over alluvial sand.....

Geological boundary.....

Radiocarbon date.....

Geology by J. M. Aylsworth, I. M. Kottler, and K. K. Shultz, based mainly on airphoto interpretation with ground checking, 1973-74, 1978.

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

Base map, enlarged from 1:250,000 scale, published by the Army Survey Establishment, E.C.E. in 1966.

Copies of the topographic edition of this map may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa, K1A 0S9.

Mean magnetic declination 1981, 2°15' West, decreasing 2.3' annually. Readings vary from 2°14' in the SE corner to 2°16' in the SW corner of the map area.

Elevations in feet above mean sea level.

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