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Abstract
This new surficial geology map product represents the conversion of Map 11-1980 and its legend into the current Geospatial Information Standards (GIS) format. The map is based on the original map and its legend, with the addition of new data and information. The map is based on the original map and its legend, with the addition of new data and information. The map is based on the original map and its legend, with the addition of new data and information.

Résumé
Ce nouveau produit géologique de la carte des formations superficielles 11-1980 a été produit avec le standard des données géographiques (SDG) en version 2.1) de la Commission géologique du Canada qui a été adopté sous forme de standard officiel 1741. La connaissance et toutes les données de la carte 11-1980 et de son légende ont été converties en un format compatible avec le processus de conversion. Des éléments supplémentaires ont été ajoutés à la carte originale, ce sont des données géographiques de la région de Kivallik, des données géologiques de la région de Kivallik, des données géologiques de la région de Kivallik.

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Natural Resources Canada / Ressources naturelles Canada

CANADIAN GEOSCIENCE MAP 225
RECONNAISSANCE SURFICIAL GEOLOGY
MacQUOID LAKE
Nunavut
NTS 55-M
1:125 000



Geological Survey of Canada
Canadian Geoscience Maps

Canada



- QUATERNARY**
- NONGLACIAL ENVIRONMENT**
- ALLUVIAL SEDIMENTS:** stream-deposited material within active drainage systems; "modern" is defined as the period since the last ice-proglacial lakes or glacial ice.
- Ap:** Alluvial floodplain sediments: silt, sand, and gravel; variable thickness; deposited in channels and on floodplains; may include alluvial sediments in excess which formed as stream cuts to present level in glacial and marine sedimentary fill.
- A:** Alluvial sediments: undifferentiated; modern alluvium mixed with and of variable thickness; material washed from slopes by wave action or deposited at the end of meltwater streams; surface generally covered by 1 cm to 1 m of thin peat on which mosses, sedges, and grasses grow; surface characterized by polygons and flow ponds related to vertical ice surface extending to a depth of 2 to 3 m.
- L:** Lacustrine sediments, undifferentiated: silt, variable thickness; associated with permanently drained proglacial lake basins; may include up to 15% organic carbon; modified by marine processes.
- MAINE SEDIMENTS:** materials deposited in the Tyne Sea and glacial deposits modified by marine processes.
- M:** Beach sediments: sand, gravel, cobbles, or boulders; variable thickness; generally and normally deposited on beaches, bars, spits, and ice-pointed ridges in littoral and nearshore environments; surface characterized by sparse vegetation and polygonal patterns.
- Ma:** Deltic sediments: sand, pebbly mud, and gravel; variable thickness; deposited in the Tyne Sea by glacial streams, and during regression by glacial-deltaic sediments; surface may be characterized by sparse vegetation and polygonal flow tracks.
- Mo:** Offshore sediments: clay, silt, and silty sand; variable thickness; deposited in a deep-water environment; may occur anywhere below marine limit but distribution is patchy above 60 m in a silt; thickest deposits generally are found in major low valleys or valleys with major streams; may include prominent step or notched pattern on aerial photos; difficult to differentiate on airphoto from silt surface vegetation is commonly observed in air photo ground moraine; striped pattern consists of dark and light stripes, 10 to 20 m wide, running down-drain and up-drain; surface is generally smooth; surface may be 0.5 to 1.0 m high, surrounded by light-colored grass sedge vegetation; likely has high ground ice content.
- Mv:** Marine veneer: clay, silt, sand; less than 1-2 m thick.
- GLACIAL ENVIRONMENT**
- GLACIOFLUVIAL SEDIMENTS:** water-sorted sediments deposited in or adjacent to meltwater channels; origin as a result of meltwater outflow.
- GFp:** Outwash plain sediments: silt, sand, gravel; variable thickness; sorted, hummocks, and bedded surfaces; deposited by subglacial meltwater streams; includes outwash fans and materials on the floor or at the mouth of meltwater channels; sparsely vegetated.
- GFd:** Subsequent outwash fan sediments: silt, sand, fine gravel; variable thickness; deposited in the subglacial mouth of an ice tunnel into the sea; surface characterized by low ridges and furrows; difficult to differentiate on airphoto from unit A.
- GFc:** Ice-contact sediments: sand and gravel; variable thickness; stratified; deposited near ice margins; may occur as flat areas in stream valleys or abandoned channels above marine limit; occurs only as secondary unit.
- GF:** Glaciofluvial sediments, undifferentiated: silt, sand, and gravel; variable thickness; deposited in meltwater channels; difficult to differentiate on airphoto from unit A.
- GLACIAL SEDIMENTS (TILL):** poorly sorted till (diameters) with distinctive lower deposited directly by glacial ice.
- Th:** Hummocky till: variable thickness; without significant boulder cover; consisting of hummocks; includes ridges of till and fine sand and gravel; or erosion remnants between subglacial meltwater channels; extensive areas adjacent to areas of ribbed moraines (T); exact origin unknown; may have formed in association with stagnant ice and in some places from erosion of till surfaces by streams in anastomosing meltwater channels; vegetation and proglacial features occur to some of till (thin T).
- Tm:** Moraine complex: silt, sand, and gravel; variable thickness; undifferentiated; glacial-deltaic moraine occurs as short ridges or hummocks; thought to be deposited in lake and compress in integrated ice; ridges orientation may form a reticulate pattern; sparsely vegetated; petaloidal features vary from mudflats in till to rock craters in sorted sediments.
- Tv:** Ribbed moraine: generally bouldery till; in places sand and gravel; variable thickness; ribbed ridges; ridges generally 1 to 2 m high; ridges generally oriented in the direction of ice flow; individual ribs may be asymmetric in cross-section with steep side facing down-drain; base of till may be laterally into drummed fields and be drummed in the transition zone; surfaces have sparse vegetation and generally a heavy cover of large boulders and mudflats where composed of till, and are marked by frost cracks where composed of gravel.
- Tv:** Till veneer: generally sandy, silty till; less than 1 m thick; occurs only as secondary unit.
- Tb:** Till blanket: generally sandy, silty till with less than 25% clay-sized particles; noncalcareous; grey; variable thickness; forms till plains; includes areas of coarse and fine sand and gravel; may occur in some places from erosion of till ridges around base of lichen-covered mudflats 1-2 m diameter; may include bedded pattern on aerial photo.
- T:** Till, undifferentiated: diamiction; variable thickness; associated with complex map units of till-covered landforms blanketed by marine sediments; based solely on aerial photo interpretation.
- PRE-QUATERNARY**
- R:** Bedrock, undifferentiated: Precambrian intrusive gneiss and metamorphic rocks; red volcanic rocks, and limestone-schistose sediments; surface composed of till and gravel; may occur as flat areas in stream valleys or abandoned channels above marine limit; occurs only as secondary unit.

- Where the surficial cover forms a complex pattern and the map units are too small to be mapped individually, an arbitrary symbol is used to designate the total polygon, a GEL ("") separates the first dominant map unit designation from the second secondary unit (e.g., R.T.V. designates an area of bedrock with numerous small deposits of till veneer).
- A stratigraphic relationship is shown with a maximum of two map unit designations separated by a dash (T-GEL). (e.g., M-GEL designates marine beach sediments overlying bedrock).
- Geological contact, defined
- Terrace scarp
- Beach crest, bar, or ice-strewn ridge
- Limit of marine submergence
- Major meltwater channel, direction unknown
- Minor meltwater channel, direction known
- Esker, direction known
- Buried or obscured drummed ridge, ice flow feature
- Drummed
- Crag and tail
- Fluted bedrock (roche moutonnée)
- Hummock (hummocky moraine)
- Station
- Poorly defined, direction unknown
- Poorly defined, direction known
- Well defined, direction unknown
- Well defined, direction known
- Crossed: 1 = older, 3 = younger
- Small bedrock outcrop

Recommended citation
Geological Survey of Canada, 2017. Reconnaissance surficial geology, Macquoid Lake, Nunavut, NTS 55-M. Geological Survey of Canada, Canadian Geoscience Maps and Data Release Series, Surficial Data Model 2.1. Conversion of Preliminary Map 11-1980. Date 1:125 000. doi:10.4095/298700

Map projection: Universal Transverse Mercator, zone 15, North American Datum 1983
Base map at the scale of 1:200 000 from Natural Resources Canada, with modifications.
Editions in French: 2017, 2016, 2015, 2014, 2013, 2012, 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996, 1995, 1994, 1993, 1992, 1991, 1990, 1989, 1988, 1987, 1986, 1985, 1984, 1983, 1982, 1981, 1980.
Mean magnetic declination 2017: 7.0°W, decreasing 0.4° annually. Readings vary from 1°59'W in the SW corner to 5°29'W in the NE corner of the map.

Geology has been spatially adjusted to fit the updated base. Geomatics and cartography by G.S. Hanna. Initiative of the Geological Survey of Canada, conducted under the auspices of the Canadian Geoscience Mapping for Energy and Minerals (GEM) program. Data conversion by D.E. Kerr, 2014, 2015.

This map is not to be used for navigational purposes. The Geological Survey of Canada welcomes corrections or additional information from users. Data may include geospatial observations not captured on this map. See map info document accompanying the downloaded data for more information about this publication. This publication is available for free download through GEOCAN (http://geocan.nrcan.gc.ca/).

Preliminary publications in this series have not been scientifically edited.

CANADIAN GEOSCIENCE MAP 225
RECONNAISSANCE SURFICIAL GEOLOGY
MacQUOID LAKE
Nunavut
NTS 55-M