

QUATERNARY

HOLOCENE

NONGLACIAL ENVIRONMENT

- O** Organic deposits, undifferentiated: peat and muck, up to 2 m thick, formed predominantly by the accumulation of vegetative material in bogs; occurs in depressions and along valley bottoms; permafrost is commonly present; may contain small pebbles; ice wedge polygons and remnant collapse structures; small unmapped organic deposits occur in most terrain units.
- Ap** Alluvial floodplain sediments: gravel to silt, generally are stratified and moderately sorted; 1 to 5 m thick, deposited by stream channels and rivers; in stream beds may be covered by silt.

PLEISTOCENE (WISCONSIN GLACIATION)

GLACIAL ENVIRONMENT

GLACIOFLUVIAL SEDIMENTS: sand, gravel, and minor silt, sorting ranges from good to poor, and stratified from massive to cross-stratified to planar bedded; greater than 1 m thick, deposited into temporary glacier-dammed lakes and ponds; includes deltaic sediments.

- GF1** Subaerial outwash fan sediments: rounded gravel and sand, massive to cross-stratified; probably less than 5 m thick, occurs as bracketed fans.
- GF2** Esker sediments: sand, silt, and gravel; in planar, cross-stratified, and massive beds; 1 to 40 m thick, forms ridges with both sharp-crested and glaciated segments; includes zones of washed rock, small transverse gravel ridges, isolated lens deposits and circular rim ridges associated with the unit and others by symbols.

GLACIAL SEDIMENTS (TLL): unsorted glacial siltation; slightly stony to stony with silty matrix; 1 to greater than 30 m thick, characteristics strongly influenced by the nature of the local bedrock.

- Th** Hummocky silt siltation: from 5 to 30 m thick; forms irregular to rolling terrain with relief up to 15 m; some areas have abundant small meltwater channels and big concentrations of boulders in depressions.
- Tv** Till veneer: dimension, less than 2 m thick; rock structure is generally visible on outcrops; unit includes patches of bedrock and till blanket.
- Tb** Till blanket: dimension, from 2 to 10 m thick; occurs as till plains mimicking local topography or as drummedowns; small rock outcrops in this unit are shown by symbols.

PRE-QUATERNARY

BEDROCK: Archean granitic, gneiss, metasedimentary and metamorphic rocks; Proterozoic sedimentary rocks, mafic, dike, and minor younger (Tertiary) volcanic; may include patches of till veneer or glacial drift; areas of fractured and faulted bedrock (fissure, particularly on metasediments) are designated by symbols.

- R1** Sedimentary bedrock: sedimentary rocks
- R2** Igneous bedrock: volcanic, granitoid
- R3** Metamorphic bedrock: metasedimentary and metamorphic rocks

Other symbols:

- Fissure: frost heaved and shattered rock
- Area of meltwater lag scour
- Geological boundary, defined
- Blanch crest
- Minor meltwater channel, sense known
- Major moraine ridge
- Esker ridge, sense unknown
- Esker ridge, sense known
- Drummedown
- Crag and tail
- Fluted bedrock, sense known
- Patterned ground (ice wedge polygon)
- Kettle, gravelly transverse ridge
- Stratification (well defined, ice flow direction known; 1 = oldest, 3 = youngest)
- Cosson
- Outcrop, small
- Fossil location
- Classed sample location (see Table 1)
- Sample location

Map No.	Scale	Latitude	Longitude	Sheet No.	Publication Date	Environment
CGM 218	1:125 000	66°N	113°W	1	2015	Arctic
CGM 218	1:125 000	66°N	113°W	2	2015	Arctic

Table 1. Radiocarbon ages.

References

Desjardins, C., Proulx, A., Eagles, B., Everett, D., Hankley, D.H., Inglis, E., Kerr, D.E., Moore, A., Parent, M., Robertson, L., Smith, I.A., St-Onge, D.A., and Weatherston, A., 2014. Science language for an integrated Geological Survey of Canada data model for surficial geology maps, version 2.0. Geological Survey of Canada, Open File 7031, 464 p. doi:10.4095/070323

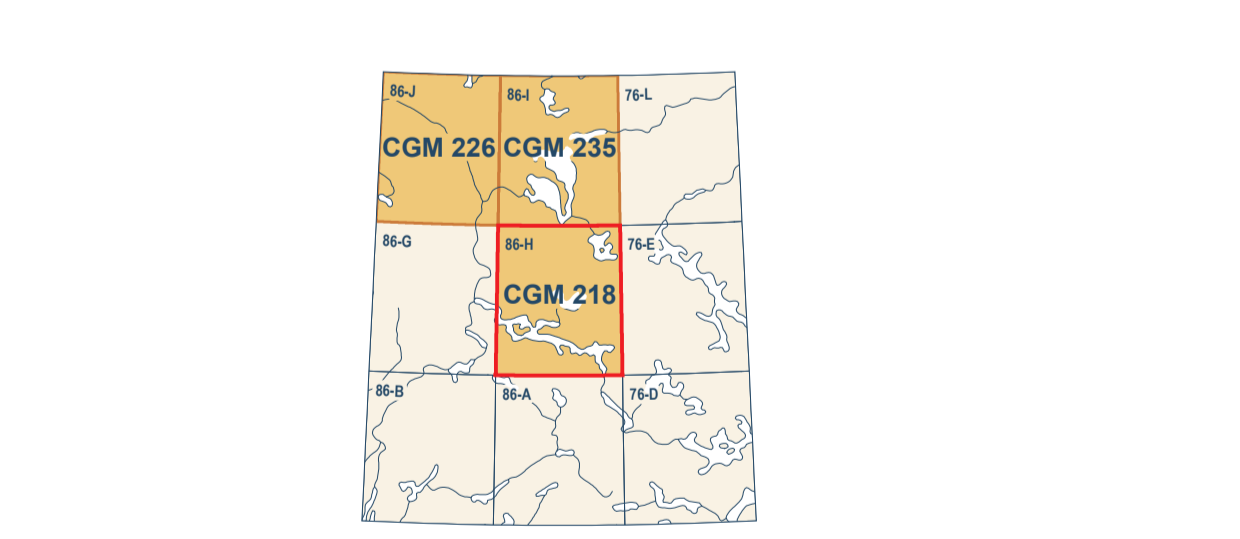
Dredge, L.A., Kerr, D.E., and Ward, B.C., 1996. Surficial geology, Point Lake, District of Mackenzie, Northwest Territories. Geological Survey of Canada, Map 180A, scale 1:125 000, doi:10.4095/026591

Abstract

This new surficial geology map product represents the conversion of a paper map to a digital format. The map is based on the conversion of the paper map to a digital format using the Geological Survey of Canada's Surface Data Model (SDM) version 2.0 which can be found in Open File 7031. All geoscientific knowledge and information from Map 180A that continued to the current SDM were maintained during the conversion process. The purpose of converting legacy map data to a common science language and common legend is to enable and facilitate the efficient digital compilation, interpretation, management, and dissemination of geologic map information in a structured and consistent manner. This provides an effective knowledge management tool designed around a geoscientific workflow that can be used to disseminate geoscientific information in a structured and consistent manner. This provides an effective knowledge management tool designed around a geoscientific workflow that can be used to disseminate geoscientific information in a structured and consistent manner.

Résumé

Ce nouveau produit cartographique de la géologie des formations superficielles correspond uniquement à la conversion de la Carte 180A et de sa légende, en un service de données. Le modèle de données pour les formations superficielles (MDF) version 2.0 de la Commission géologique du Canada, lequel peut être consulté dans le Dossier public 7031. Toutes les connaissances et l'information de nature géoscientifique de la Carte 180A qui sont en conformité avec le modèle de données ont été conservées pendant le processus de conversion. Le but de cette conversion de cartes publiques antérieurement basées sur un langage scientifique commun et une légende commune est de permettre et de faciliter la compilation, l'interprétation, la gestion et la diffusion efficaces de l'information géoscientifique cartographique en mode numérique de façon structurée et cohérente. Cette façon de faire offre un outil efficace de gestion des connaissances élaboré à l'aide d'une géoscientifique qui pourra échanger valablement le type d'information à paraître sur les nouvelles cartes des formations superficielles.



National Topographic System reference and index to adjoining published Geological Survey of Canada maps

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CANADIAN GEOSCIENCE MAP 218
SURFICIAL GEOLOGY
POINT LAKE
Northwest Territories-Nunavut
NTS 86-H
1:125 000

Geological Survey of Canada
Canadian Geoscience Maps

Preliminary **Preliminary** **Preliminary** **Preliminary** **Preliminary** **Preliminary** **Preliminary** **Preliminary**

CANADIAN GEOSCIENCE MAP 218
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1:125 000

Author: Geological Survey of Canada
Geology by L.A. Dredge, D.E. Kerr, and B.C. Ward, 1996
Geology conforms to Surficial Data Model v. 2.0
Data conversion by D.E. Kerr and S. Eagles, 2014

Geology has been spatially adjusted to fit the updated base
Geomatics by L. Robertson
Cartography by D. Viner
Map projection: Universal Transverse Mercator, zone 12,
North American Datum 1983

Base map at the scale of 1:250 000 from Natural Resources Canada, 2010 modification
Elevations in metres above mean sea level
Mean magnetic declination 2015, 16°32'E, decreasing 24.9' annually. Reading away from 10° 0' 0" in the SW corner to 17° 25' E in the NW corner of the map.
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 additional observations not reported on this map. See documentation accompanying the data.
This publication is available for free download through GEOCAN (http://open.canada.ca/geoscan)

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Preliminary publications in this series have not been scientifically edited.

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