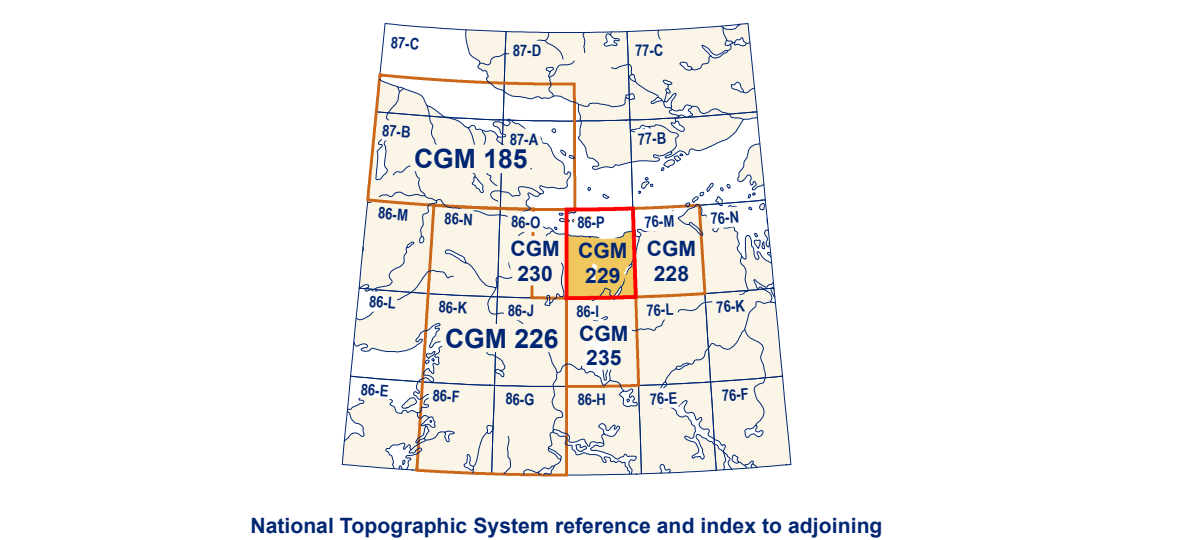


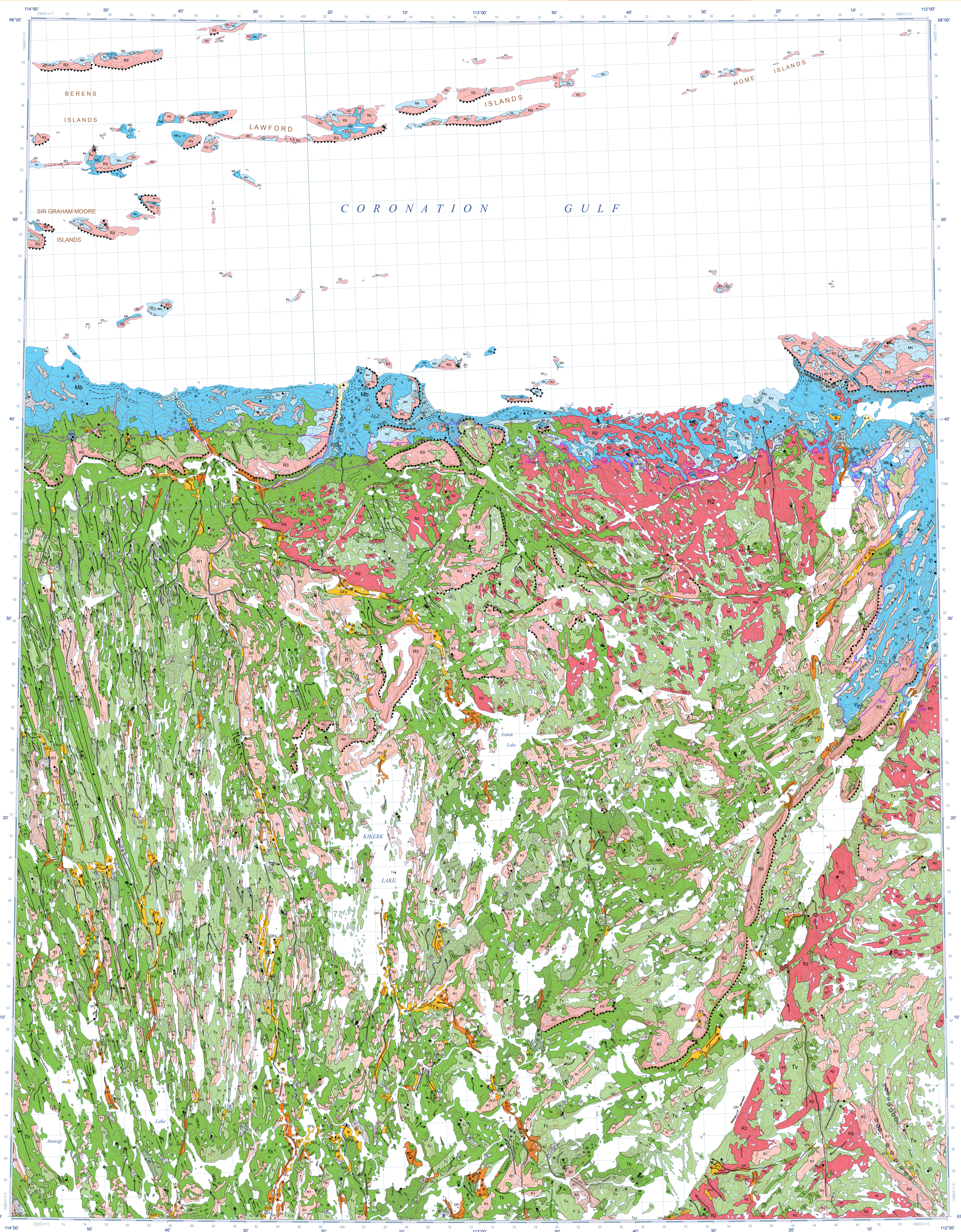
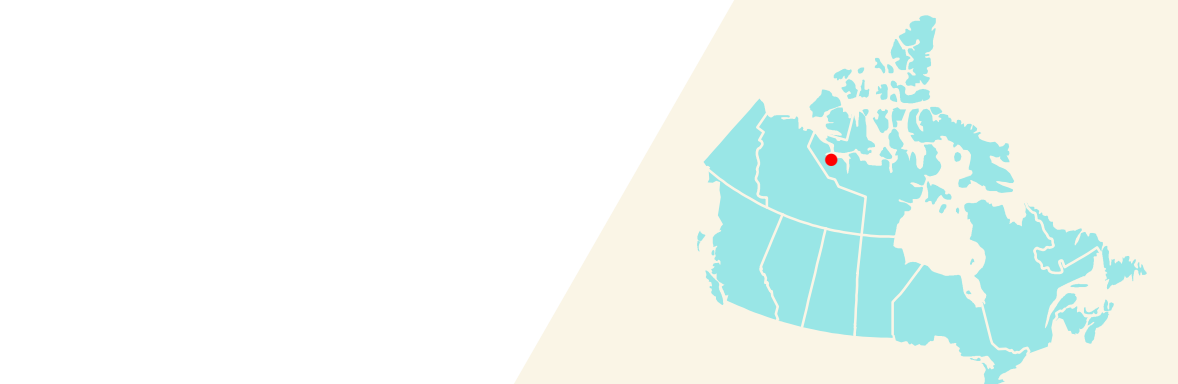
References
Cocking, R.B., Deblonde, C., Kerr, D.E., Campbell, J.E., Eagles, S., Everett, D., Huntley, D.H., Inglis, E., Laviolette, A., Parent, M., Proulx, A., Robertson, L., St-Onge, D.A., and Weatherston, A., 2015. Surficial Data Model, version 2.1.0. Revisions to the science language of the integrated Geological Survey of Canada data model for surficial geology maps. Geological Survey of Canada, Open File 7741, 276 p. https://doi.org/10.4095/296568
Diedge, L.A., Ward, B.C., and Kerr, D.E., 1998. Surficial geology, Kikerk Lake, District of Mackenzie, Northwest Territories. Geological Survey of Canada, Map 1900A, scale 1:125 000. https://doi.org/10.4095/200690

Abstract
This new surficial geology map product represents the conversion of Map 1900A and its legend, using the Geological Survey of Canada's Surficial Data Model (SDM version 2.1), which can be found in Open File 7741. All geoscience knowledge and information from Map 1900A that conformed 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 observation of geologic map information in a structured and consistent manner. This provides an effective knowledge management tool designed around a geo-database which can expand following the type of information to appear on new surficial geology maps.
Résumé
Ce nouveau produit détaillé de la carte de formations superficielles 1900A a été produit avec le Modèle de données des formations superficielles (MDF2S version 2.1) de la Commission géologique du Canada qui a été publié sous forme de dossier public 7741. La connaissance de toutes les données de la carte 1900A se retrouvent dans le MDF2S qui est maintenant pendant le processus de conversion. Le but de convertir les cartes publiques antérieurement en langage scientifique commun et en légende commune est de permettre et faciliter la compilation, l'interprétation, la gestion et la diffusion numériques efficace d'information de cartes géologiques de façon structurée et cohérente. Cette base de données géospatiales est un outil de gestion qui pourra évoluer suivant le type d'information à paraître sur les nouvelles cartes des formations superficielles.



Catalogue No. M183-1229-015E-PDF
ISBN 978-0-660-02101-2
https://doi.org/10.4095/296206
© Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2017

Natural Resources Canada
CANADIAN GEOSCIENCE MAP 229
SURFICIAL GEOLOGY
KIKERK LAKE
Nunavut
NTS 86-P
1:125 000



QUATERNARY
HOLOCENE
Organic deposits, undifferentiated: peat and muck, up to 2 m thick but commonly less than 1 m thick. Formed predominantly by the accumulation of vegetative material in bogs, occurs in depressions, along valley bottoms and on marine silt clay.
Alluvial sediments, undifferentiated: gravel to silt, generally stratified and moderately sorted; 1 to 5 m thick, deposited by modern streams and rivers; occurs as floodplains and alluvial fans, in places covered by crops.
MARINE SEDIMENTS: clay, silt, and gravel; massive to well laminated silt and clay, and masses to cross-stratified and planar bedded sands; 1 to 20 m thick, deposited during marine regression resulting in a coarsening upward sequence; may include fine grained glauconitic sediments exposed at the base of stratigraphic sections; unit may contain aggregated and disseminated ground ice; rounded pebbles and cobble gravel form raised beaches and deltas indicated by symbols.
Littoral sediments: medium to coarse grained sand with pebbles, may also consist of small cobbles and shingles; 0 to 3 m thick; blanket deposits with flat to gently undulating surface which in places overlies fine grained sediments; may contain small rounded ridges and low-ridge polygons indicated by symbols.
Marine veneer: undifferentiated sand, silt, and clay, but predominantly silt and clay, less than 2 m thick; occurs as sediments infilling depressions between bedrock outcrops and as a lag on washed bedrock and till surfaces below marine limit.
Marine blanket: undifferentiated silt and clay with minor sand; from 2 to 30 m thick; commonly occurs as coarsening upward sequence with flat to gently undulating surface; may contain segregated ice; may be extensively gullied and exhibit retrogressive thaw slumps; occurs as pebbles to cobble lags on surface.
PLEISTOCENE (WEICONGSIAN GLACIATION)
GLACIAL AND NONGLACIAL ENVIRONMENT
Glauconitic and marine glauconitic sediments: sand, gravel, and cobbles; massive to cross-stratified; 5 to 20 m thick; exhibits channelled surfaces, low-ridge polygons, and more rarely, kettle lakes; commonly associated with the distal end of glacial/valley complexes terminating at, or directly below, marine limit.
GLACIAL ENVIRONMENT
Glaciolacustrine sediments, undifferentiated: mainly sand; cross-bedded to planar bedded; 1 to 8 m thick; overlies temporary glacial-dammed lakes or cyclic-dammed lakes and ponds associated with high-level phases of water bodies southward of Kikerk Lake and in Tuktoyaktuk valley.
GLACIOFLUVIAL SEDIMENTS: sand, gravel, and minor silt; sorting ranges from good to poor; stratification from massive or cross-stratified to planar bedded; more than 1 m thick; deposited by water flowing from, or in contact with, glacial ice; zones of washed bedrock (meltwater scours), isolated kame deposits, and boulder lags shown by symbols.
Outwash plain sediments: rounded gravel and sand; massive to cross-stratified; 2 to 20 m thick; deposited at or beyond the ice margin; occurs as broadened fans and outwash plains with ice-ridge polygons.
Esker sediments: sand, silt, and gravel; in planar, cross-stratified, and massive beds; 1 to 20 m thick; forms ridges with both sharp-crowned and flat-topped segments, mounds, and flanking aprons; formed subglacially or in subglacially deposited ice-walled channels.
GLACIAL SEDIMENTS (TILL)
Unsorted glacial debris (diamictum), consisting of a silty sand matrix containing pebbles, cobbles, and boulders; deposited beneath, or along the margin of, glaciers as lodgement till, meltout till, and gravity flow deposits.
Hummock till: diamictum; 5 to 30 m thick; forms irregular to rolling terrain with relief up to 10 m; some areas have abundant small meltwater channels and lag concentrations of boulders in depressions; small kames and transverse ridges associated with this unit are shown by symbols.
Till veneer: diamictum; less than 2 m thick; till blanket; and marine sediments below marine limit.
Till blanket: diamictum; from 2 to 10 m thick; occurs as till plains mimicking bedrock topography or as drumlins; small rock outcrops in this unit are shown by symbols.
PRE-QUATERNARY
BEDROCK: Archean granitic, gneissic, metasedimentary, and metavolcanic rocks; Proterozoic sedimentary rocks, mafic dykes, and sills; may include patches of till and marine veneer; areas of shattered and frost-heaved rock are shown by symbols.
Sedimentary bedrock
Igneous bedrock
Metamorphic bedrock
Felsenmeer; frost-heaved and shattered rock
Area of meltwater scour (washed scoured lag)
Geological contact, defined
Beach crest
Limit of submergence, marine (approximate elevation of postglacial sea level in metres)
Meltwater channel
Minor, subglacial or proglacial, direction unknown
Minor, glacial or proglacial, direction known
Minor moraine ridge
Lakes
Direction unknown
Direction known
Drumlinoid
Crag-and-tail
Fluted bedrock, roche moutonnée or whaleback, direction known
Bedrock scarp
Retrogressive thaw flow slide
Thermokarst depression
Patterned ground, ice wedge polygon
Soilfuction lobe
Delta, paleochannel unknown
Name
Station, ice flow direction known
Gossan observation
Small outcrop
Fossil observation
Dated sample location (see Table 1)
Sample location

Table 1. Radiochronology
Table with 7 columns: Rep ID, Sample ID, Latitude, Longitude, Elevation (m a.s.l.), Material, and Radiochronology Age. It lists 8 samples with their respective coordinates and ages.

Geological Survey of Canada
Canadian Geoscience Maps
Canada 175
Author: Geological Survey of Canada
Geology based on airphoto interpretation and field observations by L.A. Diedge, B.C. Ward, and D.E. Kerr, 1995, with assistance from R. Roberts, P. Wilson, and S.A. Wolfe.
Geology conforms to Surficial Data Model v.2.1
Data conversion by D.E. Kerr, 2015
Geology has been spatially adjusted to fit the updated base.

CANADIAN GEOSCIENCE MAP 229
SURFICIAL GEOLOGY
KIKERK LAKE
Nunavut
NTS 86-P
1:125 000
Author: Geological Survey of Canada
Cartography by D. Vitar
Initiative of the Geological Survey of Canada, conducted under the auspices of Natural Resources Canada's Geo-mapping for Energy and Minerals (GEM) program.
Map projection: Universal Transverse Mercator, zone 12, North American Datum 1983.
Scale: 1:125 000
This publication has been scientifically reviewed, but it has not undergone a formal edit.

CANADIAN GEOSCIENCE MAP 229
SURFICIAL GEOLOGY
KIKERK LAKE
Nunavut
NTS 86-P