



Natural Resources
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CANADIAN GEOSCIENCE MAP 68

SURFICIAL GEOLOGY

RANKIN INLET

Nunavut
NTS 55-K/16

Map Information
Document

Preliminary



Geological Survey of Canada
Canadian Geoscience Maps

2017

Canada 



MAP NUMBER

Natural Resources Canada, Geological Survey of Canada
Canadian Geoscience Map 68 (Preliminary)

TITLE

Surficial geology, Rankin Inlet, Nunavut, NTS 55-K/16

SCALE

1:50 000

CATALOGUE INFORMATION

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Geological Survey of Canada, 2017. Surficial geology, Rankin Inlet, Nunavut, NTS 55-K/16; Geological Survey of Canada, Canadian Geoscience Map 68 (preliminary, Surficial Data Model v. 2.2 conversion of Open File 4116), scale 1:50 000.
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ABSTRACT

This new surficial geology map product represents the conversion of Open File 4116 and its legend only, using the Geological Survey of Canada's Surficial Data Model

(SDM version 2.2) which can be found in Open File 8041. All geoscience knowledge and information from Open File 4116 that conformed to the current SDM were maintained during the conversion process. Additional material such as marginal notes or figures which may exist on the original map, are not included here. 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 geodatabase which can expand following the type of information to appear on new surficial geology maps.

RÉSUMÉ

Ce nouveau produit cartographique de la géologie des formations superficielles correspond à la conversion du Dossier public 4116 et de sa légende uniquement, en se servant du Modèle de données pour les formations superficielles (MDFS version 2.2) de la Commission géologique du Canada, lequel peut être consulté dans le Dossier public 8041. Toutes les connaissances et l'information de nature géoscientifique du Dossier public 4116 qui sont en conformité avec le modèle de données ont été conservées pendant le processus de conversion. Des éléments additionnels tels que des notes marginales ou des figures qui pourraient être présents sur la carte originale ne sont pas inclus ici. Le but de la conversion de cartes publiées antérieurement suivant 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 géologique 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 géodatabase qui pourra évoluer suivant le type d'information à paraître sur les nouvelles cartes des formations superficielles.

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SHEET 1 OF 1, SURFICIAL GEOLOGY

GENERAL INFORMATION

Author: Geological Survey of Canada

Geology based on airphoto interpretation and ground observations by I. McMartin, 1997–1999.

Surficial geology conforms to Surficial Data Model v. 2.2

Data conversion by D.E. Kerr, 2016

Geology has been spatially adjusted to fit the updated base

Geomatics by J. Kingsley

Cartography by E. Everett

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 15.
North American Datum 1983

Base map at the scale of 1:50 000 from Natural Resources Canada, with modifications.
Elevations in metres above mean sea level

Magnetic declination 2017, 6°58'W, decreasing 4.2' annually.
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 portrayed 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 GEOSCAN (<http://geoscan.nrcan.gc.ca/>).

Preliminary publications in this series have not been scientifically edited.

MAP VIEWING FILES

The published map is distributed as a Portable Document File (PDF), and may contain a subset of the overall geological data for legibility reasons at the publication scale.

REFERENCES AND ADDITIONAL SOURCES OF INFORMATION:

Cocking, R.B., Deblonde, C., Kerr, D.E., Campbell, J.E., Eagles, S., Everett, D., Huntley, D.H., Inglis, E., Laviolette, A., Parent, M., Plouffe, A., Robertson, L., Smith, I.R., and Weatherston, A., 2016. Surficial Data Model, version 2.2.0: Revisions to the science language of the integrated Geological Survey of Canada data model for surficial geology maps; Geological Survey of Canada, Open File 8041, 45 p.
doi:10.4095/298767

McMartin, I. 2000. Till composition across the Meliadine Trend, Rankin Inlet area, Kivalliq Region, Nunavut; Geological Survey of Canada, Open File 3747.
doi:10.4095/211793

McMartin, I., 2002. Surficial geology, Rankin Inlet, Nunavut; Geological Survey of Canada, Open File 4116, scale 1:50 000. doi:10.4095/213219

McMartin, I. and Henderson, P.J., 2004. Ice flow history and glacial stratigraphy, Kivalliq Region, Nunavut (NTS 55J, K, L, M, N, O; 65I and P): complete datasets, maps and photographs from the Western Churchill NATMAP Project; Geological Survey of Canada, Open File 4595. doi:10.4095/215057

McMartin, I., Henderson, P.J., Kjarsgaard, B.K., and Venance, K., 2003. Regional distribution and chemistry of kimberlite indicator minerals, Rankin Inlet and MacQuoid Lake areas, Kivalliq Region, Nunavut; Geological Survey of Canada, Open File 1575. doi:10.4095/214159

AUTHOR CONTACT

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COORDINATE SYSTEM

Projection: Universal Transverse Mercator
Units: metres
Zone: 15
Horizontal Datum: NAD83
Vertical Datum: mean sea level

BOUNDING COORDINATES

Western longitude: 92°30'00"W
Eastern longitude: 92°00'00"W
Northern latitude: 63°00'00"N
Southern latitude: 62°45'00"N

SOFTWARE VERSION

Data has been originally compiled and formatted for use with ArcGIS™ desktop version 10.2.2 developed by ESRI®.

DATA MODEL INFORMATION

Surficial

The Geological Survey of Canada (GSC) through the Geomapping for Energy and Minerals Program (GEM) has undertaken the Geological Map Flow to develop protocols for the collection, management (compilation, interpretation), and dissemination of surficial and bedrock geology data and map information. To this end, a data model has been created.

The Surficial Data Model (SDM) was designed using ESRI geodatabase architecture. The XML workspace document provided can be imported into a geodatabase, and the geodatabase will then be populated with the feature datasets, feature classes, tables, relationship classes, subtypes, and domains.

Shapefile and table (.dbf) versions of the data are included within the data. Column names have been simplified and the text values have been maintained within the shapefile attributes. The direction columns are numerical, to display rotation for points, and the symbol fields will hold the correct values to be matched to the appropriate style file.

For a more in depth description of the data model please refer to the official publication:

Cocking, R.B., Deblonde, C., Kerr, D.E., Campbell, J.E., Eagles, S., Everett, D., Huntley, D.H., Inglis, E., Laviolette, A., Parent, M., Plouffe, A., Robertson, L., Smith, I.R., and Weatherston, A., 2016. Surficial Data Model, version 2.2.0: Revisions to the science language of the integrated Geological Survey of Canada data model for surficial geology maps; Geological Survey of Canada, Open File 8041, 45 p.
doi:10.4095/298767