

NATURAL RESOURCES CANADA  
GEOLOGICAL SURVEY OF CANADA

## CANADIAN GEOSCIENCE MAP 362

CANADA-NUNAVUT GEOSCIENCE OFFICE

**OPEN FILE MAP 2019-01**

SURFICIAL GEOLOGY

# MCBETH FIORD WEST

central Baffin Island, Nunavut

NTS 27-C west

**Map Information  
Document**

**Geological Survey of Canada  
Canadian Geoscience Maps**

**2019**

**Canada** 



CANADA-NUNAVUT  
GEOSCIENCE OFFICE  
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BUREAU GÉOSCIENTIFIQUE  
CANADA-NUNAVUT  
KANATAMI-NUNAVUMI  
GEOSCIENCE TITIGARVIIT



## **MAP NUMBER**

Natural Resources Canada, Geological Survey of Canada  
Canadian Geoscience Map 362

## **TITLE**

Surficial geology, McBeth Fiord west, central Baffin Island, Nunavut, NTS 27-C west

## **SCALE**

1:250 000

## **CATALOGUE INFORMATION**

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## **RECOMMENDED CITATION**

Geological Survey of Canada, 2019. Surficial geology, McBeth Fiord west, central Baffin Island, Nunavut, NTS 27-C west; Geological Survey of Canada, Canadian Geoscience Map 362 (Surficial Data Model v. 2.3.14 conversion of 2074A); Canada-Nunavut Geoscience Office, Open File Map 2019-01, scale 1:250 000.  
<https://doi.org/10.4095/308464>

## **ABSTRACT**

This new surficial geology map product represents the conversion of GSC Map 2074A (Dredge, 2004a) and its legend, using the Geological Survey of Canada's Surficial Data Model (SDM version 2.3.14) (Deblonde et al., 2018). All geoscience knowledge and information from Map 2074A that conformed to the current SDM were maintained during the conversion process. Some information in the original marginal notes is not included here. Supplementary legacy information was added to complement the converted geoscience data. This consists of striations from Dredge (2004b and unpublished field data). 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 geological map information in a structured and consistent manner. This provides an effective knowledge-management tool designed around a geodatabase that 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 de la Carte 2074A (Dredge, 2004a) et de sa légende, en se servant du Modèle de données pour les formations superficielles (MDFS version 2.3.14) de la Commission géologique du Canada (Deblonde et al., 2018). Toutes les connaissances et l'information de nature géoscientifique de la Carte 2074A qui sont en conformité avec le modèle de données ont été conservées pendant le processus de conversion. Certains éléments d'information contenus dans les notes marginales de la carte originale ne sont pas inclus ici. Des éléments d'information existants ont été ajoutés en complément aux données géoscientifiques converties. Il s'agit de stries glaciaires tirées de Dredge (2004b et données de terrain inédites). 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 de la géologie des formations superficielles.

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# ***SHEET 1 OF 1, SURFICIAL GEOLOGY***

## ***GENERAL INFORMATION***

Author: Geological Survey of Canada

Geology based on fieldwork by L.A. Dredge, E. Little, P. Toole, H. Bonish, R. Chouinard, J. Severin, and A. Tizzard, 2001 and 2002

Geological compilation by L.A. Dredge, 2003

Geology conforms to Surficial Data Model v. 2.3.14 (Deblonde et al., 2018).

Data conversion by D.E. Kerr, 2016 and 2017

Geology has been spatially adjusted to fit the updated base.

Geomatics by S. Eagles and C.D. Stevens

Cartography by D. Viner

Scientific editing by A. Weatherston

Joint initiative of the Geological Survey of Canada and the Canada-Nunavut Geoscience Office, conducted under the auspices of the Information Management Project as part of Natural Resources Canada's Geo-Mapping for Energy and Minerals (GEM) program

Map projection Universal Transverse Mercator, zone 19  
North American Datum 1983

Base map at the scale of 1:250 000 from Natural Resources Canada, with modifications  
Elevations in metres above mean sea level

Mean magnetic declination 2019, 33°13'W, decreasing 35.0' annually  
Readings vary from 32°17'W in the SW corner to 34°05'W in the NE 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 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 (<https://geoscan.nrcan.gc.ca/>).

### **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.

### **CARTOGRAPHIC REPRESENTATIONS USED ON MAP**

This map utilizes ESRI Cartographic Representations in order to customize the display of standard GSC symbols for visual clarity on the PDF of the map only. The digital data still contains the original symbol from the standard GSC symbol set. The following legend features have Cartographic Representations applied:

- Meltwater channels (GEM\_LINES)

### **REFERENCES**

Deblonde, C., Cocking, R.B., Kerr, D.E., Campbell, J.E., Eagles, S., Everett, D., Huntley, D.H., Inglis, E., Parent, M., Plouffe, A., Robertson, L., Smith, I.R., and Weatherston, A., 2018. Surficial Data Model: the science language of the integrated Geological Survey of Canada data model for surficial geology maps; Geological Survey of Canada, Open File 8236, ver. 2.3.14, 1 .zip file.  
<https://doi.org/10.4095/308178>

Dredge, L.A., 2004. Surficial geology, McBeth Fiord, west half, central Baffin Island, Nunavut; Geological Survey of Canada, Map 2074A, scale 1:250 000.  
<https://doi.org/10.4095/216170>

### **ADDITIONAL INFORMATION**

The Additional Information folder of this product's digital download contains figures and tables that appear in the map surround as well as additional geological information not depicted on the map, nor this document, nor the geodatabase.

-PDF of Table 1

### **AUTHOR CONTACT**

Questions, suggestions, and comments regarding the geological information contained in the data sets should be addressed to:

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Geological Survey of Canada  
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Ottawa ON  
K1A 0E8  
[daniel.kerr@canada.ca](mailto:daniel.kerr@canada.ca)

### **COORDINATE SYSTEM**

Projection: Universal Transverse Mercator  
Units: metres  
Zone: 19  
Horizontal Datum: NAD83  
Vertical Datum: mean sea level

### ***BOUNDING COORDINATES***

Western longitude: 72°00'00"W

Eastern longitude: 70°00'00"W

Northern latitude: 70°00'00"N

Southern latitude: 69°00'00"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 Geo-mapping 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:

Deblonde, C., Cocking, R.B., Kerr, D.E., Campbell, J.E., Eagles, S., Everett, D., Huntley, D.H., Inglis, E., Parent, M., Plouffe, A., Robertson, L., Smith, I.R., and Weatherston, A., 2018. Surficial Data Model: the science language of the integrated Geological Survey of Canada data model for surficial geology maps; Geological Survey of Canada, Open File 8236, ver. 2.3.14, 1 .zip file. <https://doi.org/10.4095/308178>