

NATURAL RESOURCES CANADA  
GEOLOGICAL SURVEY OF CANADA  
CANADIAN GEOSCIENCE MAP 412

CANADA-NUNAVUT GEOSCIENCE OFFICE  
OPEN FILE MAP 2022-03

SURFICIAL GEOLOGY

# ATORQUAIT RIVER

Nunavut

NTS 56-P/11 and 12

Map Information  
Document

Geological Survey of Canada  
Canadian Geoscience Maps

2022

Canada



CANADA-NUNAVUT  
GEOSCIENCE OFFICE

BUREAU GÉOSCIENTIFIQUE  
CANADA-NUNAVUT

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KANATAMI-NUNAVUMI  
GEOSCIENCE TITIGAKVIIT



## **MAP NUMBER**

Natural Resources Canada, Geological Survey of Canada  
Canadian Geoscience Map 412

Canada-Nunavut Geoscience Office  
Open File Map 2022-03

## **TITLE**

Surficial geology, Atorquait River, Nunavut, NTS 56-P/11 and 12

## **SCALE**

1:50 000

## **CATALOGUE INFORMATION**

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## **RECOMMENDED CITATION**

Geological Survey of Canada, 2022. Surficial geology, Atorquait River, Nunavut, NTS 56-P/11 and 12; Geological Survey of Canada, Canadian Geoscience Map 412 (Surficial Data Model v. 2.3.14 conversion of Open File 5016, Map 2); Canada-Nunavut Geoscience Office, Open File Map 2022-03, scale 1:50 000.  
<https://doi.org/10.4095/315132>

## **ABSTRACT**

This new surficial geology map product represents the conversion of Open File 5016, map 2 (Little, 2006) and its legend only, 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 Open File 5016, map 2 that conformed to the SDM were maintained during the conversion process. Supplementary legacy information (descriptive notes) on the original map is not included here. Limited legacy information was added to complement the converted geoscience data. This consists of striations (McMartin et al., 2003). It is identified in the accompanying geodatabase. 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 2 du Dossier public 5016 (Little, 2006) et de sa légende uniquement, 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 2 du Dossier public 5016 qui sont en conformité avec le modèle de données ont été conservées pendant le processus de conversion. De l'information additionnelle (notes descriptives) présente sur la carte originale n'est pas incluse ici. Une quantité limitée de données existantes a été ajoutée en complément aux données géoscientifiques converties. Il s'agit de données sur des stries glaciaires tirées de McMartin et al. (2003). Ces données sont identifiées dans la géodatabase de la carte. 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 by E.C. Little, M. Giangioppi, D. Utting, T. Ferbey, and C. Ozyer, 2003

Geological compilation by E.C. Little, 2004 and 2005

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

Geological data conversion by D.E. Kerr, 2016 to 2018

Geology has been spatially adjusted to fit the updated base.

Geomatics by J. Kingsley, S.A. Keskinler, and C.D. Stevens

Cartography by D. Viner

Scientific editing by L. Ewert

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 16  
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

Proximity to the North Magnetic Pole causes the magnetic compass to be erratic in this area.

Magnetic declination 2022, 13°09'W, decreasing 26.7' annually

This map is not to be used for navigational purposes.

The Geological Survey of Canada welcomes corrections or additional information from users ([gscpublications-cgcpublications@nrcan-rncan.gc.ca](mailto:gscpublications-cgcpublications@nrcan-rncan.gc.ca)).

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/>) and Canada-Nunavut Geoscience Office (<https://cngo.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.

### **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>

Little, E.C., 2006. Surficial geology, Ellice Hills (north), Nunavut; Geological Survey of Canada, Open File 5016, scale 1:50 000, 1 .zip file. <https://doi.org/10.4095/222142>

McMartin, I., Utting, D.J., Little, E.C., Ozyer, C.A., and Ferbey, T., 2003. Complete results from the Committee Bay drift prospecting survey, central Nunavut (NTS 56-K, 56-J north, 56-O south, and 56-P); Geological Survey of Canada, Open File 4493, 1 .zip file. <https://doi.org/10.4095/214646>

### **AUTHOR CONTACT**

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### **COORDINATE SYSTEM**

Projection: Universal Transverse Mercator

Units: metres

Zone: 16

Horizontal Datum: NAD83

Vertical Datum: mean sea level

### ***BOUNDING COORDINATES***

Western longitude: 90°00'00"W

Eastern longitude: 89°00'00"W

Northern latitude: 67°45'00"N

Southern latitude: 67°30'00"N

### ***SOFTWARE VERSION***

Data has been originally compiled and formatted for use with ArcGIS™ desktop version 10.8.2 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>