



Natural Resources
Canada

Ressources naturelles
Canada

2nd
EDITION

GEOLOGICAL SURVEY OF CANADA
CANADIAN GEOSCIENCE MAP 202
NORTHWEST TERRITORIES GEOLOGICAL SURVEY
NWT OPEN FILE 2017-04
SURFICIAL GEOLOGY
SNOWBIRD LAKE

Northwest Territories
NTS 65-D

**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 202 (Preliminary, 2nd Edition)

Northwest Territories Geological Survey
NWT Open File 2017-04

TITLE

Surficial geology, Snowbird Lake, Northwest Territories, NTS 65-D

SCALE

1:125 000

CATALOGUE INFORMATION

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RECOMMENDED CITATION

Geological Survey of Canada, 2017. Surficial geology, Snowbird Lake, Northwest Territories, NTS 65-D; Geological Survey of Canada, Canadian Geoscience Map 202 (2nd edition, preliminary, Surficial Data Model v. 2.3 conversion of NWT Open File 2015-03); Northwest Territories Geological Survey, NWT Open File 2017-04, scale 1:125 000. <https://doi.org/10.4095/305333>

ABSTRACT

This new surficial geology map product represents the conversion of NWT Open File 2006-02 and its legend, using the Geological Survey of Canada's Surficial Data Model (SDM version 2.3) (Open File 8236). All geoscience knowledge and information from map NWT Open File 2006-02 that conformed to the current SDM were maintained during the conversion process. Supplementary, limited legacy information was added to complement the converted geoscience data. This consists of glacial striations from Taylor, 1963, and are 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 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 dérivé de la carte de géologie de surface NWT Open File 2006-02 a été produit avec le Modèle de données des formations superficielles (MDFS version 2.3) de la Commission géologique du Canada (dossier public 8236). La connaissance et toutes les données de la carte NWT Open File 2006-02 se retrouvant dans le MDFS ont été maintenues pendant le processus de conversion. Des données complémentaires ont été ajoutées pour compléter les données géoscientifiques converties. Ce sont des stries de Taylor, 1963, identifiées dans la base de données géospatiales. Le but de convertir les cartes publiées 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.

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SHEET 1 OF 1, SURFICIAL GEOLOGY

GENERAL INFORMATION

Author: Geological Survey of Canada

Geology by F. Hardy and J. Delgaty (Northwest Territories Geological Survey), 2004

Geology conforms to Surficial Data Model v. 2.3

Data conversion by D.E. Kerr, 2014

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 13.
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 2017, 7°17'E, decreasing 9.9' annually. Readings vary from 8°20'E in the SW corner to 6°08'E 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 (<http://geoscan.nrcan.gc.ca/>).

This publication has been scientifically reviewed, but it has not undergone a formal edit.

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 STRIATION DATA FROM:

- 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., 2017. Surficial Data Model, version 2.3.0: revisions to the science language of the integrated Geological Survey of Canada data model for surficial geology maps; Geological Survey of Canada, Open File 8236, 1 .zip file. <https://doi.org/10.4095/302717>
- Hardy, F. and Delgaty, J., 2006. Surficial geology of the Snowbird Lake area, NTS 65D; *in*: Martel, E. and Pierce, K., 2006. An ArcView 3.x digital geological atlas of the Snowbird Lake area, NTS 65D; Northwest Territories Geoscience Office, NWT Open File 2006-02, digital files and 2 maps, scale 1:125 000.
- Taylor, F.C., 1963. Snowbird Lake map area, District of Mackenzie; Geological Survey of Canada, Memoir 333, 23 p. <https://doi.org/10.4095/100557>
- Sources of related geochemical data:
- Hardy, F., Delgaty, J., and Martel, E., 2005. Drift exploration surveys in the Snowbird Lake area, NWT: kimberlite indicator minerals – gold – heavy minerals geochemistry – till geochemistry; Northwest Territories Geoscience Office, NWT Open File 2005-07, 89 p.
- Martel, E., Delgaty, J., and Hardy, F., 2005. Till geochemistry study on the Snowbird Lake Project; Northwest Territories Geoscience Office, NWT Open File 2005-03, one spreadsheet and accompanying text.

AUTHOR CONTACT

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COORDINATE SYSTEM

Projection: Universal Transverse Mercator
Units: metres
Zone: 13
Horizontal Datum: NAD83
Vertical Datum: mean sea level

BOUNDING COORDINATES

Western longitude: 104°00'00"W

Eastern longitude: 102°00'00"W

Northern latitude: 61°00'00"N

Southern latitude: 60°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., 2017. Surficial Data Model, version 2.3.0: revisions to the science language of the integrated Geological Survey of Canada data model for surficial geology maps; Geological Survey of Canada, Open File 8236, 1 .zip file.
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