



Natural Resources
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CANADIAN GEOSCIENCE MAP 374

RECONNAISSANCE SURFICIAL GEOLOGY

SAMBAA K'E

Northwest Territories

NTS 95-A

Map Information
Document

Geological Survey of Canada
Canadian Geoscience Maps

2022

Canada 



MAP NUMBER

Natural Resources Canada, Geological Survey of Canada
Canadian Geoscience Map 374

TITLE

Reconnaissance surficial geology, Sambaa K'e, Northwest Territories, NTS 95-A

SCALE

1:125 000

CATALOGUE INFORMATION

Catalogue No. M183-1/374-2022E-PDF

ISBN 978-0-660-26918-4

<https://doi.org/10.4095/311228>

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Geological Survey of Canada, 2022. Reconnaissance surficial geology, Sambaa K'e, Northwest Territories, NTS 95-A; Geological Survey of Canada, Canadian Geoscience Map 374 (Surficial Data Model v. 2.3.14 conversion of Map 16-1978), scale 1:125 000. <https://doi.org/10.4095/311228>

ABSTRACT

This new surficial geology map product represents the conversion of Preliminary Map 16-1978 (Rutter et al., 1980) 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 Preliminary Map 16-1978 that conformed to the current SDM were maintained during the conversion process. Additional material on the original map, consisting of an extended legend, is not included here. Supplementary, limited legacy information was added to complement the converted geoscience data. This consists of drillhole and stratigraphic data (Rutter et al., 1973). 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 préliminaire 16-1978 (Rutter et al., 1980) 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 préliminaire 16-1978 qui sont en conformité avec le modèle de données ont été conservées pendant le processus de conversion. De l'information supplémentaire contenue dans la légende détaillée de 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 de sondages et de données stratigraphiques tirées de Rutter et al. (1973). Ces données sont identifiées dans la géodatabase du présent produit cartographique. 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, RECONNAISSANCE SURFICIAL GEOLOGY

GENERAL INFORMATION

Author: Geological Survey of Canada

Geology by N.W. Rutter, G.V. Minning, and J.A. Netteville, 1971

Geological compilation by R.J. Hawes, 1975

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

Geological data conversion by D.E. Kerr, 2016 and 2017

Geology has been spatially adjusted to fit the updated base.

Geomatics by M. Tougas, J. Kingsley, and C.D. Stevens

Cartography by D. Viner

Scientific editing by L. Ewert

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 10
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 2022, 18°13'E, decreasing 10.1' annually. Readings vary from 17°50'E in the SE corner to 18°34'E in the NW 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 (gscpublications-cgcpublishations@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/>).

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:

-GEM_LINES – remove arrowheads from convergent meltwater channel symbols and create landslide escarpment line symbol

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>

Rutter, N.W., Boydell, A.N., Savigny, K.W., and van Everdingen, R.O., 1973. Terrain evaluation with respect to pipeline construction, Mackenzie transportation corridor, southern part, lat. 60 to 64 N.; Task Force on Northern Oil Development, Report No. 73-36, Information Canada, Cat. No. R7210373, QS-1532-000-EE-A1.

Rutter, N.W., Minning, G.V., and Netteville, J.A., 1980. Surficial Geology and Geomorphology, Trout Lake, District of Mackenzie; Geological Survey of Canada, Preliminary Map 16-1978, 1 sheet, scale 1:125 000. <https://doi.org/10.4095/109655>

SUGGESTED READINGS

Huntley, D., Mills, A., and Paulen, R., 2008. Surficial deposits, landforms, glacial history, and reconnaissance drift sampling in the Trout Lake map area, Northwest Territories; Geological Survey of Canada, Current Research 2008-14, 16 p. <https://doi.org/10.4095/225636>

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.

-Excel file of station data and legend for station data

AUTHOR CONTACT

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

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COORDINATE SYSTEM

Projection: Universal Transverse Mercator

Units: metres

Zone: 10

Horizontal Datum: NAD83

Vertical Datum: mean sea level

BOUNDING COORDINATES

Western longitude: 122°00'00"W

Eastern longitude: 120°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 10.8.2 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>