Natural Resources Canada
Ressources naturelles Canada

CANADIAN GEOSCIENCE MAP 220

SURFICIAL GEOLOGY

BUFFALO LAKE

Northwest Territories
NTS 85-B

Map Information Document

Preliminary

Geological Survey of Canada
Canadian Geoscience Maps

2016

Canada

PUBLICATION

Map Number

Natural Resources Canada, Geological Survey of Canada
Canadian Geoscience Map 220 (Preliminary)

Title

Surficial geology, Buffalo Lake, Northwest Territories, NTS 85-B

Scale

1:250 000

Catalogue Information

Catalogue No. M183-1/220-2015E-PDF
ISBN 978-1-100-22955-3
doi:10.4095/296509

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Recommended Citation

Geological Survey of Canada, 2016. Surficial geology, Buffalo Lake, Northwest Territories, NTS 85-B; Geological Survey of Canada, Canadian Geoscience Map 220 (preliminary, Surficial Data Model v. 2.0 conversion of Map 1906A), scale 1:250 000. doi:10.4095/296509

ABSTRACT

This new surficial geology map product represents the conversion of Map 1906A and its legend, using the Geological Survey of Canada's Surficial Data Model (SDM version 2.0) which can be found in Open File 7631. All geoscience knowledge and information from Map 1906A that conformed to the current SDM were maintained during the conversion process. 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 geo-database 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 uniquement à la conversion de la Carte 1906A et de sa légende, en se servant du Modèle de données pour les formations superficielles (MDFS version 2.0) de la Commission géologique du Canada, lequel peut être consulté dans le Dossier public 7631. Toutes les connaissances et l'information de nature géoscientifique de la Carte 1906A qui sont en conformité avec le modèle de données ont été conservées pendant le processus de conversion. Le but de cette 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.

ABOUT THE MAP

General Information

Author: Geological Survey of Canada

Geology by D.S. Lemmon, 1989, 1990, 1991

Geology conforms to Surficial Data Model v. 2.0

Data conversion by D.E. Kerr, 2015

Geomatics by M. Kremer and S. Eagles

Cartography by A. Galloway and 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 11.
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

Magnetic declination 2016, 16°57'E, decreasing 17.4' annually. Readings vary from17°34'E in the NW corner to 16° 18'E in the SE 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 documentation accompanying the data.

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.

About the Geology

References

Craig, B.G., 1965. Glacial Lake McConnell, and the surficial geology of parts of Slave River and Redstone River map-areas, District of Mackenzie; Geological Survey of Canada, Bulletin 122, 44 p. doi:10.4095/100639

Deblonde, C., Plouffe, A., Eagles, S., Everett, D., Huntley, D.H., Inglis, E., Kerr, D.E., Moore, A., Parent, M., Robertson, L., Smith, I.R., St-Onge, D.A., and Weatherston, A., 2014. Science language for an integrated Geological Survey of Canada data model for surficial geology maps, version 2.0; Geological Survey of Canada, Open File 7631, 464 p. doi:10.4095/294225

Lemmon, D.S., 1998. Surficial geology, Buffalo Lake, District of Mackenzie, Northwest Territories; Geological Survey of Canada, Map 1906A, scale 1:250 000. doi:10.4095/209687

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: 11
Horizontal Datum: NAD83
Vertical Datum: mean sea level

Bounding Coordinates

Western longitude: 116°00’00”W
Eastern longitude: 114°00’00”W
Northern latitude: 61°00’00”N
Southern latitude: 60°00’00”N

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:

Deblonde, C., Plouffe, A., Eagles, S., Everett, D., Huntley, D.H., Inglis, E., Kerr, D.E., Moore, A., Parent, M., Robertson, L., Smith, I.R., St-Onge, D.A., and Weatherston, A., 2014. Science language for an integrated Geological Survey of Canada data model for surficial geology maps, version 2.0; Geological Survey of Canada, Open File 7631, 464 p. doi:10.4095/294225

LICENCE AGREEMENT

ACCORD DE LICENCE