Natural Resources Canada | Ressources naturelles Canada

2nd EDITION

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

MAP NUMBER

Natural Resources Canada, Geological Survey of Canada
Canadian Geoscience Map 220 (Preliminary, 2nd Edition)

TITLE

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

SCALE

1:250 000

CATALOGUE INFORMATION

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Geological Survey of Canada, 2016. Surficial geology, Buffalo Lake, Northwest Territories, NTS 85-B; Geological Survey of Canada, Canadian Geoscience Map 220 (2nd edition, preliminary, Surficial Data Model v. 2.1 conversion of Map 1906A), scale 1:250 000. doi:10.4095/298705

ABSTRACT

This new surficial geology map product represents the conversion of Map 1906A and its legend only, using the Geological Survey of Canada's Surficial Data Model (SDM

version 2.1) which can be found in Open File 7741. All geoscience knowledge and information from Map 1906A that conformed to the current SDM were maintained during the conversion process. Additional material such as marginal notes or figures which may exist on the original map, are not included here. Supplementary, limited legacy information was added to complement the converted geoscience data. This consists of an ice flow feature from Craig, 1965. 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 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 dérivé de la carte des formations superficielles 1906A a été produit avec le Modèle de données des formations superficielles (MDFS version 2.1) de la Commission géologique du Canada qui a été publié sous forme de dossier public 7741. La connaissance et toutes les données de la carte 1906A se retrouvant dans le MDFS ont été maintenues pendant le processus de conversion. Des éléments supplémentaires tels que les notes marginales ou les figures qui peuvent exister sur la carte originale, ne sont pas incluses ici. Des données complémentaires limitées ont été ajoutées pour compléter les données géoscientifiques converties. Il s'agit d'écoulement glaciaire de Craig, 1965. Elles sont 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.

LICENCE AGREEMENT

ACCORD DE LICENCE

SHEET 1 OF 2, SURFICIAL GEOLOGY

GENERAL INFORMATION

Author: Geological Survey of Canada

Geology by D.S. Lemmon, 1989, 1990, 1991. Additional field data from B.G. Craig, collected in 1957.

Geology conforms to Surficial Data Model v. 2.1

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 from 17°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 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/).

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.

References

Cocking, R.B., Deblonde, C., Kerr, D.E., Campbell, J.E., Eagles, S., Everett, D., Huntley, D.H., Inglis, E., Laviolette, A., Parent, M., Plouffe, A., Robertson, L., St-Onge, D.A., and Weatherston, A., 2015. Surficial Data Model, version 2.1.0: Revisions to the science language of the integrated Geological Survey of Canada data model for surficial geology maps; Geological Survey of Canada, Open File 7741, 276 p. doi:10.4095/296568

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

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

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 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:

Cocking, R.B., Deblonde, C., Kerr, D.E., Campbell, J.E., Eagles, S., Everett, D., Huntley, D.H., Inglis, E., Laviolette, A., Parent, M., Plouffe, A., Robertson, L., St-Onge, D.A., and Weatherston, A., 2015. Surficial Data Model, version 2.1.0: Revisions to the science language of the integrated Geological Survey of Canada data model for surficial geology maps; Geological Survey of Canada, Open File 7741, 276 p. doi:10.4095/296568