Natural Resources Canada | Ressources naturelles Canada

CANADIAN GEOSCIENCE MAP 345

SURFICIAL GEOLOGY

PRINCE EDWARD ISLAND

Prince Edward Island
parts of NTS 11-L, E, 21-I, and 21-P

Map Information Document

Geological Survey of Canada
Canadian Geoscience Maps

2022

Canada

MAP NUMBER

Natural Resources Canada, Geological Survey of Canada
Canadian Geoscience Map 345

TITLE

Surficial geology, Prince Edward Island, Prince Edward Island, parts of NTS 11-L, E, 21-I, and 21-P

SCALE

1:200 000

CATALOGUE INFORMATION

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Geological Survey of Canada, 2022. Surficial geology, Prince Edward Island, Prince Edward Island, parts of NTS 11-L, E, 21-I, and 21-P; Geological Survey of Canada, Canadian Geoscience Map 345 (Surficial Data Model v. 2.3.0 conversion of Map 1366A), scale 1:200 000. https://doi.org/10.4095/306969

ABSTRACT

This new surficial geology map product represents the conversion of Map 1366A (Prest, 1973) and its legend, using the Geological Survey of Canada's Surficial Data Model (SDM version 2.3.0) (Deblonde et al., 2017). All geoscience knowledge and information from Map 1366A that conformed to the SDM were maintained during the conversion process. Additional legacy information that exists on the original map is not included here. Supplementary legacy information from original marginal notes was added to complement the converted map unit descriptions. 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 1366A (Prest, 1973) et de sa légende, en se servant du Modèle de données pour les formations superficielles (MDFS version 2.3.0) de la Commission géologique du Canada (Deblonde et al., 2017). Toutes les connaissances et l'information de nature géoscientifique de la Carte 1366A qui sont en conformité avec le modèle de données ont été conservées pendant le processus de conversion. De l'information additionnelle présente sur la carte originale n'est pas incluse ici. De l'information contenue dans les notes marginales de la carte originale a servi à compléter les descriptions des unités cartographiques converties. 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.

SHEET 1 OF 1, SURFICIAL GEOLOGY

GENERAL INFORMATION

Author: Geological Survey of Canada

Geology by V.K. Prest (modified from maps by G.H. Crowl, L. Frankel, E.B. Owen, and V.K. Prest)

Geology conforms to Surficial Data Model v. 2.3.0 (Deblonde et al., 2017).

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

Geomatics by M. Pyne and C.D. Stevens

Cartography by E. Everett

Scientific editing by L. Ewert

Initiative of the Geological Survey of Canada, conducted under the auspices of Natural Resources Canada's Open Geoscience Project

Map projection Lambert Conformal Conic, standard parallels 49°00'N and 77°00'N
North American Datum 1983

Base map at the scale of 1:50 000 from Natural Resources Canada, with modifications
Elevations in metres above mean sea level

Mean magnetic declination 2022, 17°12'W, decreasing 9.3' annually
Readings vary from 17°29'W in the NE corner to 16°52'W in the SW 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-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/).

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:
-Geomorphology point features: Fossils, Station location, Dated sample location, Erratic observation, Drumlinoid, and Striations
-Geomorphology lines

Definition Queries Used On Map

This map utilizes definition queries in order to customize the display for visualization on the PDF of the map only and does not affect the digital data. The following features have a definition query applied:
-Field stations
-Fossils

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., 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

Prest, V.K., 1973. Surficial deposits of Prince Edward Island; Geological Survey of Canada, Map 1366A, scale 1:126 720. https://doi.org/10.4095/108971

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.
-PDF of Table 1

Author Contact

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Coordinate System

Projection: Lambert Conformal Conic, standard parallels 49°00'N and 77°00'N
Units: metres
Horizontal Datum: NAD83
Vertical Datum: mean sea level

Bounding Coordinates

Western longitude: 64°27’00”W
Eastern longitude: 61°56’00”W
Northern latitude: 47°06’00”N
Southern latitude: 45°56’00”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., 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