

Natural Resources Canada Ressources naturelles Canada

CANADIAN GEOSCIENCE MAP 434 BEDROCK GEOLOGY CENTRAL HOPEDALE BLOCK

Newfoundland and Labrador

NTS 13-N/1, 2, 3, parts of 13-N/4, 5, 13-N/6, 7, 8, and 13-O/4, 5

Map Information Document

Geological Survey of Canada Canadian Geoscience Maps

2022





MAP NUMBER

Natural Resources Canada, Geological Survey of Canada Canadian Geoscience Map 434

TITLE

Bedrock geology, central Hopedale Block, Newfoundland and Labrador, NTS 13-N/1, 2, 3, parts of 13-N/4, 5, 13-N/6, 7, 8, and 13-O/4, 5

SCALE

1:100 000

CATALOGUE INFORMATION

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Geological Survey of Canada, 2022. Bedrock geology, central Hopedale Block, Newfoundland and Labrador, NTS 13-N/1, 2, 3, parts of 13-N/4, 5, 13-N/6, 7, 8, and 13-O/4, 5; Geological Survey of Canada, Canadian Geoscience Map 434 (Bedrock Data Model v. 2.9 conversion of Map 1668A), scale 1:100 000. https://doi.org/10.4095/329285

ABSTRACT

This new bedrock geology map product represents the conversion of Map 1668A (Ermanovics, 1992) and its legend to digital format. All geoscience knowledge and information from Map 1668A have been converted to conform with the science language and symbology of the Geological Survey of Canada's Bedrock Data Model (Brouillette et al., 2019). The conversion of paper-only maps published previously is intended to facilitate the efficient compilation, interpretation, management, and dissemination of digital geological-mapping information in a structured and consistent manner.

Résumé

Ce nouveau produit cartographique de la géologie du substratum rocheux correspond à la conversion en format numérique de la Carte 1668A (Ermanovics, 1992) et de sa légende. Toutes les connaissances et l'information de nature géoscientifique de la Carte 1668A ont été converties en conformité avec le langage scientifique et la symbologie du Modèle de données pour le substratum rocheux de la Commission géologique du Canada (Brouillette et al., 2019). La conversion de cartes publiées antérieurement en format papier uniquement a pour objectif 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.

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SHEET 1 OF 1, BEDROCK GEOLOGY

GENERAL INFORMATION

Author: Geological Survey of Canada

Geology by I.F. Ermanovics, 1978 to 1981

Geological compilation by D. Corrigan and P. Brouillette, 2018 and 2019

Geology conforms to Bedrock Data Model v. 2.9 (Brouillette et al., 2019).

Geological data conversion by D. Corrigan and P. Brouillette, 2018 and 2019

Geomatics by N. Côté and A. Morin

Cartography by N. Côté

Scientific editing by A. Weatherston

Initiative of the Geological Survey of Canada, conducted under the auspices of the Hudson-Ungava project as part of Natural Resources Canada's Geo-mapping for Energy and Minerals (GEM) program

Map projection Universal Transverse Mercator, zone 20 North American Datum 1983

Base map at the scale of 1:50 000 from Natural Resources Canada, with modifications Elevations above mean sea level are expressed in metres (NTS 13-N/2, 3, 4, 5, 6, 7, 13-O/4, 5) and feet (NTS 13-O/4, 5).

Mean magnetic declination 2022, 20°52'W, decreasing 15.5' annually Readings vary from 21°00'W in the NE corner to 20°42'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:

- Isograd; hornblende in; approximate
- Local occurrence

REFERENCES

- Brouillette, P., Girard, É., and Huot-Vézina, G., 2019. Geological Survey of Canada Bedrock Data Model and tools: design and user guide documentation including ArcGIS[™] add-ins; Geological Survey of Canada, Open File 8247, 129 p., 1 .zip file. https://doi.org/10.4095/314673
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- Ermanovics, I.F., 1992. Geology, central Hopedale Block, Labrador, Newfoundland; Geological Survey of Canada, Map 1668A, scale 1:100 000. https://doi.org/10.4095/183825

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AUTHOR CONTACT

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COORDINATE SYSTEM

Projection: Universal Transverse Mercator Units: metres Zone: 20 Horizontal Datum: NAD83 Vertical Datum: mean sea level

BOUNDING COORDINATES

Western longitude: 61°44'00"W Eastern longitude: 59°30'00"W Northern latitude: 55°30'00"N Southern latitude: 55°00'00"N

SOFTWARE VERSION

Data has been originally compiled and formatted for use with ArcGIS[™] desktop version 10.7.1 developed by ESRI[®].

DATA MODEL INFORMATION

Bedrock

Based on a data-centric approach, the GSC Bedrock Model was designed using the ESRI ArcGIS[®] environment. The model architecture is almost entirely tailored to the proprietary functionalities of the ESRI[®] File Geodatabase such as *SubTypes*, *Domain Values* and *Relationship Classes*.

Consult PDFs in Data folder for complete description of the model with its feature classes, tables, attributes, and domain values.

Note: the PDF document is not intended to describe the entire GSC Bedrock Model, but it provides a complete and detailed description of a subset of the model representing the published dataset.

For a more in depth description of the data model please refer to the official publication:

Brouillette, P., Girard, É., and Huot-Vézina, G., 2019. Geological Survey of Canada Bedrock Data Model and tools: design and user guide documentation including ArcGIS[™] add-ins; Geological Survey of Canada, Open File 8247, 129 p, 1 .zip file. https://doi.org/10.4095/314673