



Natural Resources
Canada

Ressources naturelles
Canada

CANADIAN GEOSCIENCE MAP 435

BEDROCK GEOLOGY

SOUTHERN HOPEDALE BLOCK

Newfoundland and Labrador

parts of NTS 13-K/6, 7, 8 and NTS 13-K/9, 10, 11, 14,
15, 16

**Map Information
Document**

**Geological Survey of Canada
Canadian Geoscience Maps**

2022

Canada 



MAP NUMBER

Natural Resources Canada, Geological Survey of Canada
Canadian Geoscience Map 435

TITLE

Bedrock geology, southern Hopedale Block, Newfoundland and Labrador, parts of NTS 13-K/6, 7, 8 and NTS 13-K/9, 10, 11, 14, 15, 16

SCALE

1:100 000

CATALOGUE INFORMATION

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Geological Survey of Canada, 2022. Bedrock geology, southern Hopedale Block, Newfoundland and Labrador, parts of NTS 13-K/6, 7, 8 and NTS 13-K/9, 10, 11, 14, 15, 16; Geological Survey of Canada, Canadian Geoscience Map 435 (Bedrock Data Model v. 2.9 conversion of Map1669A), scale 1:100 000. <https://doi.org/10.4095/329286>

ABSTRACT

This new bedrock geology map product represents the conversion of Map 1669A (Ermanovics, 1992) and its legend to digital format. All geoscience knowledge and information from Map 1669A 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 1669A (Ermanovics, 1992) et de sa légende. Toutes les connaissances et l'information de nature géoscientifique de la Carte 1669A 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-K/6, 10, 11, 14, 15)
and feet (NTS 13-K/7, 8, 9, 16).

Mean magnetic declination 2022, 20°36'W, decreasing 15.1' annually
Readings vary from 20°45'W in the NE corner to 20°25'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-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:

- Local occurrence
- Isograd; hornblende in; approximate

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>

Ermanovics, I.F., 1993. Geology of Hopedale Block, southern Nain Province, and the adjacent Proterozoic terranes, Labrador, Newfoundland; Geological Survey of Canada, Memoir 431, 161 p. <https://doi.org/10.4095/183986>

Ermanovics, I.F., 1992. Geology, southern Hopedale Block, Labrador, Newfoundland; Geological Survey of Canada, Map 1669A, scale 1:100 000. <https://doi.org/10.4095/183824>

SUGGESTED READINGS

Brinex, 1959. Investigation of chrome garnet, Hopedale area, Labrador; G59025; Newfoundland Department of Mines and Energy, File 13N/08/2, 3 p.

Brinex, 1962a. Geological plan, anomaly 13B; Newfoundland Department of Mines and Energy, File 13K/15/0063, Map G63001-3, scale 1:2400.

Brinex, 1962b. Geology of Second Chance Lake; Newfoundland Department of Mines and Energy, File 13K/15/0063, Map G63001-10, scale 1:31 680.

Brinex, 1964. Shapiro/Ujutok concession, Labrador geology; Newfoundland Department of Mines and Energy, File 13K/0061, Map G64010; scale approx. 1:39 996.

Brinex, 1971a. Geological survey northwest of Florence Lake 6-03/1970; Newfoundland Department of Mines and Energy, File 13K/15/0084, Map G71007-1, scale 1:24 000.

Brinex, 1971b. Geological survey Ujutok Bay 6-03/1970; Newfoundland Department of Mines and Energy, File 13N/02/0021, Map G71006-1, scale 1:24 000.

Emslie, R.F., 1980. Geology and petrology of the Harp Lake complex, central Labrador: An example of Elsonian magmatism; Geological Survey of Canada, Bulletin 293, 136 p. <https://doi.org/10.4095/102158>

- Hill, J.D., 1982. Geology of the Flowers River–Notakwanon River area, Labrador; Newfoundland Department of Mines and Energy, Report 82-6, 140 p.
- Jesseau, C.W., 1976. A structural, metamorphic and geochemical study of the Hunt River supracrustal belt, Nain Province, Labrador; MSc thesis, Memorial University of Newfoundland, St. John's, Newfoundland, 211 p.
- Ryan, A.B., 1984. Regional geology of the central part of the Central Mineral Belt, Labrador; Newfoundland Department of Mines and Energy, Memoir 3, 185 p.
- Ryan, A.B., Kay, A., and Ermanovics, I.F., 1983. Notes to accompany Maps 83-38 to 83-41 showing the geology of the Makkovik subprovince between Kaipokok Bay and Bay of Islands, Labrador; Newfoundland Department of Mines and Energy, 21 p.
- Taylor, F.C., 1977. Geology, Hopedale, Newfoundland; Geological Survey of Canada, Map 1443A, scale 1:250 000. <https://doi.org/10.4095/124181>
- Taylor, F.C., 1979. Reconnaissance geology of a part of the Precambrian Shield, northeastern Quebec, northern Labrador and Northwest Territories; Geological Survey of Canada, Memoir 393, 99 p.

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°30'00"W
Eastern longitude: 60°00'00"W
Northern latitude: 55°00'00"N
Southern latitude: 54°25'00"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>