Newfoundland & Labrador

NTS 13L/16 MAP AREA

Areas of the map symbolized as 'Unconsolidated sand and gravel deposits' display underlying rock type(s) to portray the interpreted continuity of units, based on structural, aeromagnetic and topographic signatures. Rock types other than those shown may be present in these areas.

All data stations collected by the authors are plotted using GPS-based coordinates. This map also incorporates pre-GPS field data collected by Roscoe and Emslie (1973) and Emslie (1980). The accuracy of field data stations that were re-plotted from maps or field notes of these sources is dependent on the original plotting accuracy.

The map is augmented by follow-up examination of stained rock slabs, petrographic thin sections and whole rock geochemical analyses. In many areas, geological boundaries are poorly constrained, approximated and extrapolated on the basis of outcrop distribution, topographic trends, and aeromagnetic signatures. Where present, the dominant rock type(s) consist of several different rock types. The unit polygon depicted is based on what was interpreted to be the dominant rock type present. All rock types recorded from an individual outcrop may be determined by consulting the 'Unit designator' string for that locality given in the digital database. Discrepancies in rock names applied to field outcrops versus those interpreted from stained slabs or thin sections have not been reconciled in the digital database. Differences may be due to more refined identifications or the sample and/or thin section may not be representative of the source material.

Field work in 2012 by T. van Nostrand

Recommended citation
van Nostrand, T.
2023: Geology of the NTS 13L/16 map area, central Labrador, Scale 1:50 000. Geological Survey, Department of Industry, Energy and Technology, Government of Newfoundland and Labrador. Map 2023-33, Open File 13L/16/0163.

Geology compiled by T. van Nostrand
Geological cartography by S. McNamara, K. Morgan and T. Sears

The digital topographic database map NTS 13L/16 used here is available from the Surveyor General Branch, Natural Resources, Canada.
Magnetic declination at centre of the map is 20°42' West (March 31, 2022).
Universal Transverse Mercator (UTM) Grid Zone 20, North American Datum (NAD) 27.
Elevations are in metres above sea level. Contour interval is 20 m.

Open File 13L/16/0163

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Preliminary versions of parts of this map published in Current Research articles have evolved so there are some differences between the current and preliminary versions of the map, unit designators and the legends (see van Nostrand and Corcoran, 2013).

Map 2023-33 is twenty of twenty (20) maps on the geology of the Seal Lake Group, including adjacent rocks of older tectonic provinces in central Labrador.

Department website: //www.gov.nl.ca/iet
Geological Survey website: https://www.gov.nl.ca/iet/mines/geoscience
Email: pub@gov.nl.ca

References

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 pages.

Kilfoil, G.
2008: Compilation of colour-shaded relief images generated from airborne magnetic data flown by the Geological Survey of Canada from 1966 through 1972. Government of Newfoundland and Labrador, Department of Natural Resources, Geological Survey, unpublished map, scale 1:250 000.

Roscoe, S.M. and Emslie, R.F.
1973: Kashesheboo Lake (East Half), Newfoundland – Quebec. Geological Survey of Canada, 'A' Series Map 1342A, 1:250 000 scale.

van Nostrand, T. and Corcoran, C.
2013: Geology of the western Mesoproterozoic Seal Lake Group, central Labrador (including all of NTS map areas 13L/2 and 7 and parts of 13L/1, 3, 6, 8, 9, 10, 11, 14, 15 and 16 and 13E/14 and 15): In Current Research. Government of Newfoundland and Labrador, Department of Natural Resources, Geological Survey, Report 13-1, pages 301-336.

Note
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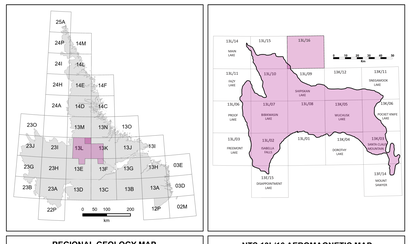
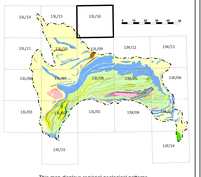
INDEX MAPS

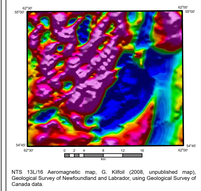


REGIONAL GEOLOGY MAP



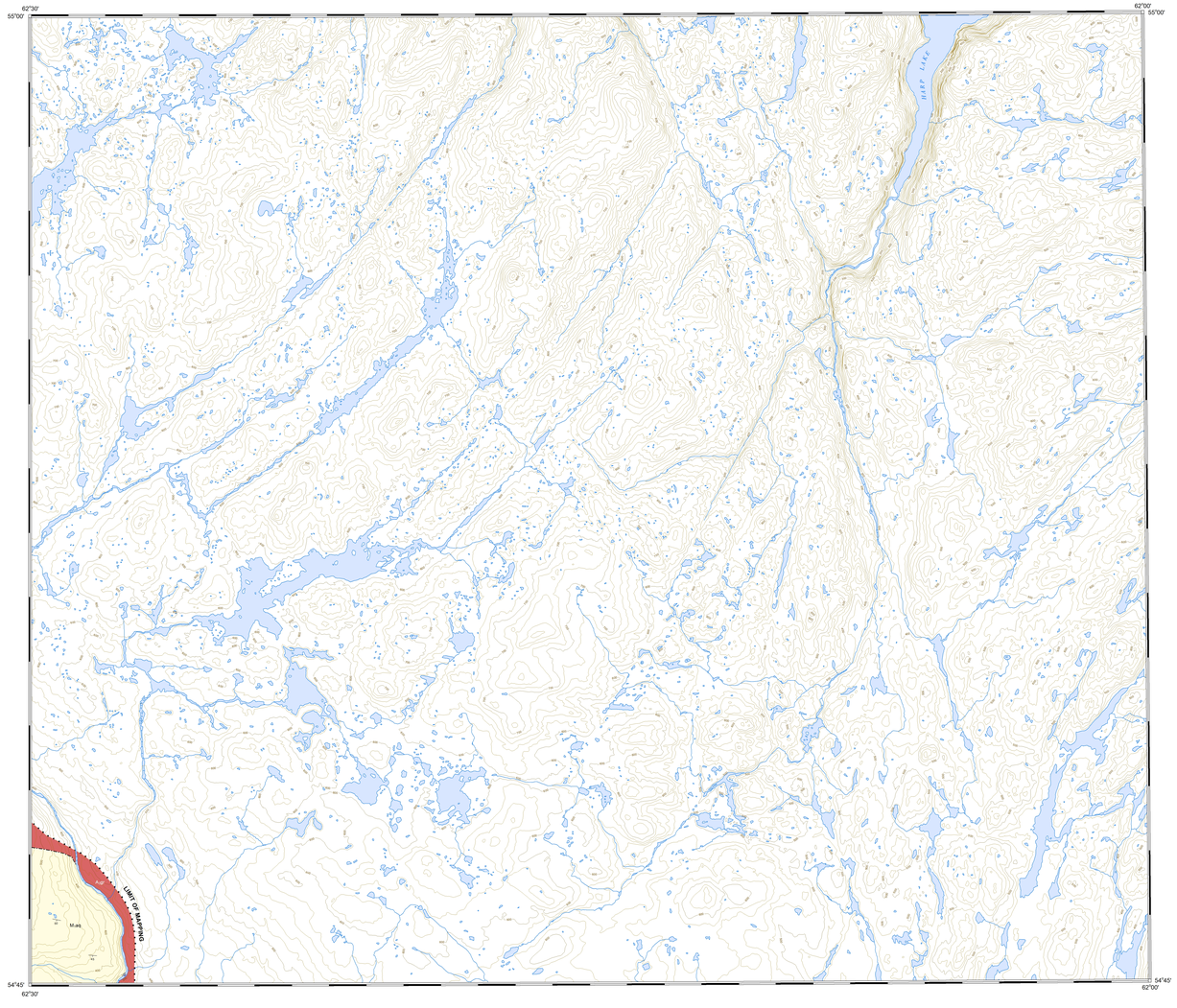
This map displays regional geological patterns.

NTS 13L/16 AEROMAGNETIC MAP



NTS 13L/16 Aeromagnetic map, G. Kilfoil (2008, unpublished map), Geological Survey of Newfoundland and Labrador, using Geological Survey of Canada data.

Red end of spectrum indicate magnetic highs. Blue end of spectrum indicate magnetic lows.


62°30'
55°00'
62°00'
55°00'
54°45'
62°30'
62°00'
54°45'
HARP LAKE
LIMIT OF MAPPING
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