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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 Brummer and Mann (1961), Gandhi (1972), Murthy and Gandhi (1972), Roscoe and Emslie (1973), Gandhi and Brown (1975), Marten (1975), Marten and Smyth (1975), Hibbs (1980), Calon and Hibbs (1980), Baragar (1981), Curtis and Curry (1981), and Thomas (1981, 1983). 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. Mineral occurrences shown on this map are from the Newfoundland and Labrador Geological Survey's Mineral Occurrence Database System (MODS) (http://gis.geosurv.gov.nl.ca/mods/mods.asp), and unpublished assessment reports; the locations of most of these are dependent on initial plotting accuracy. MODS occurrences that were revisited by the authors and new mineral indications were located using GPS-based geographic coordinates.

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, structural observations and aeromagnetic data. Individual outcrops typically 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.

The subdivision of the geology of the Adeline Island Formation is based primarily on detailed mapping surveys completed by exploration company compilations (Murthy and Gandhi, 1972; Gandhi, 1972 and Gandhi and Brown, 1975). Some of the units of this formation have been modified and re-interpreted by subsequent mapping by the authors.

Field work in 2012 by T. van Nostrand, A. MacFarlane and H. Sandeman

Recommended citation
van Nostrand, T.
2023: Geology of the NTS 13L/08 map area, central Labrador. Scale 1:50 000. Geological Survey, Department of Industry, Energy and Technology, Government of Newfoundland and Labrador. Map 2023-27, Open File 13L/08/0157.

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

The digital topographic database map NTS 13L/08 used here is available from the Surveyor General Branch, Natural Resources, Canada.
Magnetic declination at centre of the map is 20°28' 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/08/0157

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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 MacFarlane, 2011 and van Nostrand and Corcoran, 2013).

Map 2023-27 is fourteen of twenty (20) maps on the geology of the Seal Lake Group, including adjacent rocks of older tectonic provinces in central Labrador.

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

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Note
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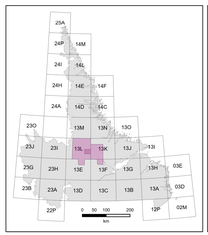
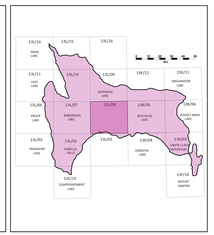
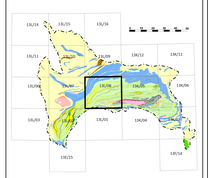
INDEX MAPS



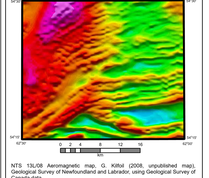


REGIONAL GEOLOGY MAP



This map displays regional geological patterns.

NTS 13L/08 AEROMAGNETIC MAP



NTS 13L/08 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'
54°30'
54°15'
62°00'
MALIGNE LAKE
CARIBOU LAKE
TWIN MILE LAKE
LIMIT OF MAPPING
Cu
Cu
Cu