

SANTA CLAUS MOUNTAIN

Areas of the map symbolized as Unconsolidated sand and gravel deposits display underlying rock type(s) to show 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 the data stations collected are plotted using GPS-based geographic coordinates. This map also incorporates pre-GPS field data collected by the authors (Fang, 1990; Ockburn, 1990; Muller and Smith, 1997a; Thomas, 1981, 1983 and 1984; and Ryan, 1984). The accuracy of field data stations registered from the files of field notes 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.gov.nl.ca/minerals/mods.asp>) and from unpublished assessment reports. The revised MODS occurrences and the new mineral indications were located using GPS-based geographic coordinates.

The map is augmented by follow-up examination of selected rock walls, petrographic thin sections and whole-rock geochemical analyses. In very 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 polygons depicted is based on the interpreted dominant rock type. All rock types recorded from an individual outcrop may be determined by consulting the "Unit description" string for that locality given in the digital database. Discrepancies in rock names applied to field outcrops versus those registered from database or the registers have not been recorded in the digital database. These discrepancies may be due to more refined identifications, or the sample and/or that section may not be representative of the source material.

Fieldwork in 2008 and 2010 by T. van Nieuwland and D. Lowe

Geology by T. van Nieuwland and D. Lowe

Recommended citation

2023. Geology of the Santa Claus Mountain map area (NTS 13K/03), central Labrador. Scale 1:50 000. Geological Survey, Department of Industry, Energy and Technology, Government of Newfoundland and Labrador. Map 2023-16. Open File 13K/03/0353.

Geology compiled by T. van Nieuwland

Geological cartography by S. Mohammedi, A. Morgan and T. Beane

The digital topographic database map NTS 13K/03 used here is available from the Surveyor General Branch, Natural Resources, Canada. Magnetic declination of centre of the map is 20°24' West (March 21, 2022). Universal Transverse Mercator (UTM) Grid Zone 50, North American Datum (NAD) 27. Elevations are in metres above sea level. Contour interval is 20 m.

Open File 13K/03/0353

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Preliminary versions of parts of this map, published in Current Research articles, have evolved, hence there may be differences between the current and earlier versions of this map, the unit descriptions and legends (see van Nieuwland and Lowe, 2010). Map 2023-16 is three of twenty (20) maps on the geology of the Seal Lake Group, and includes adjacent nodes of older tectonic provinces in central Labrador.

Department website: <http://www.gov.nl.ca>
Geological Survey website: <http://www.gov.nl.ca/geology/geology/index.html>

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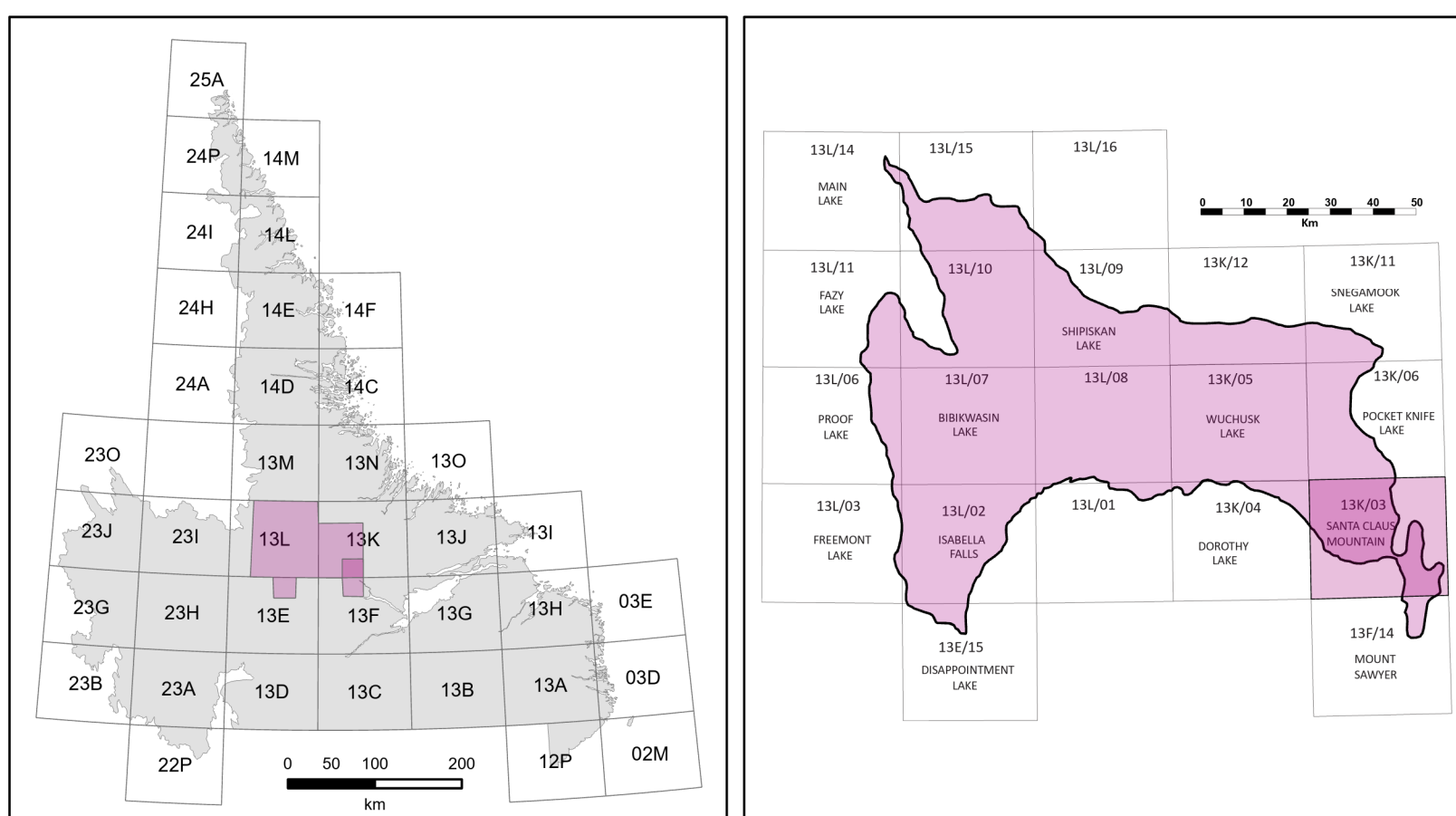
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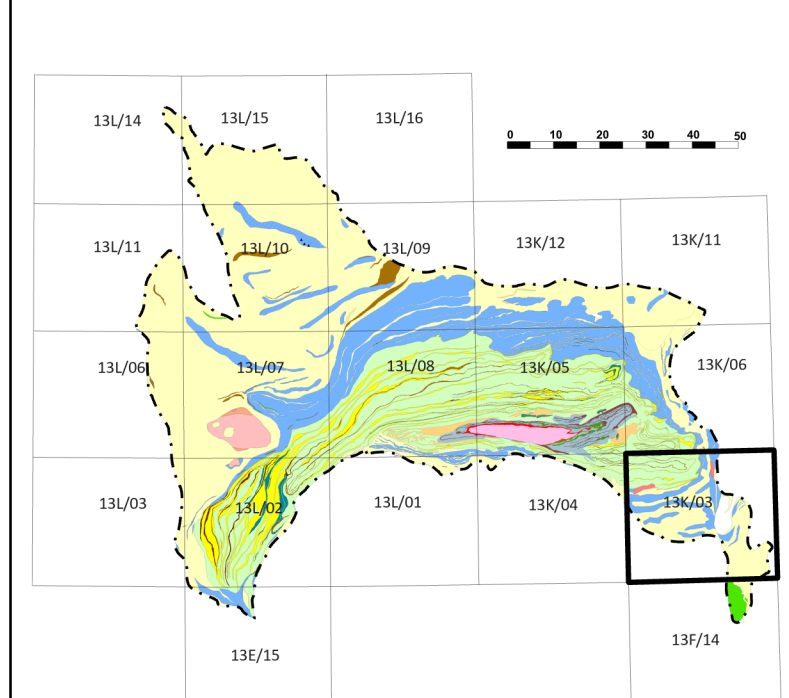
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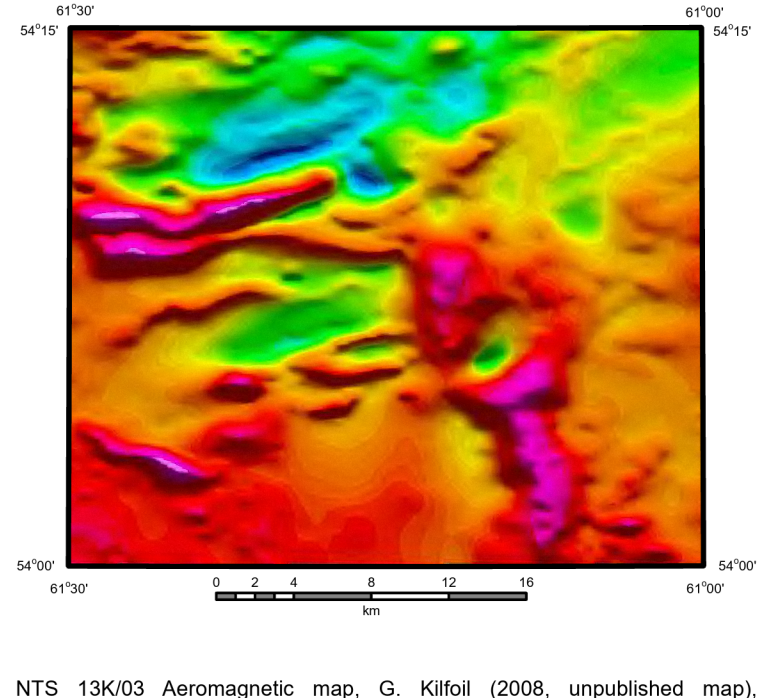
INDEX MAPS



REGIONAL GEOLOGY MAP



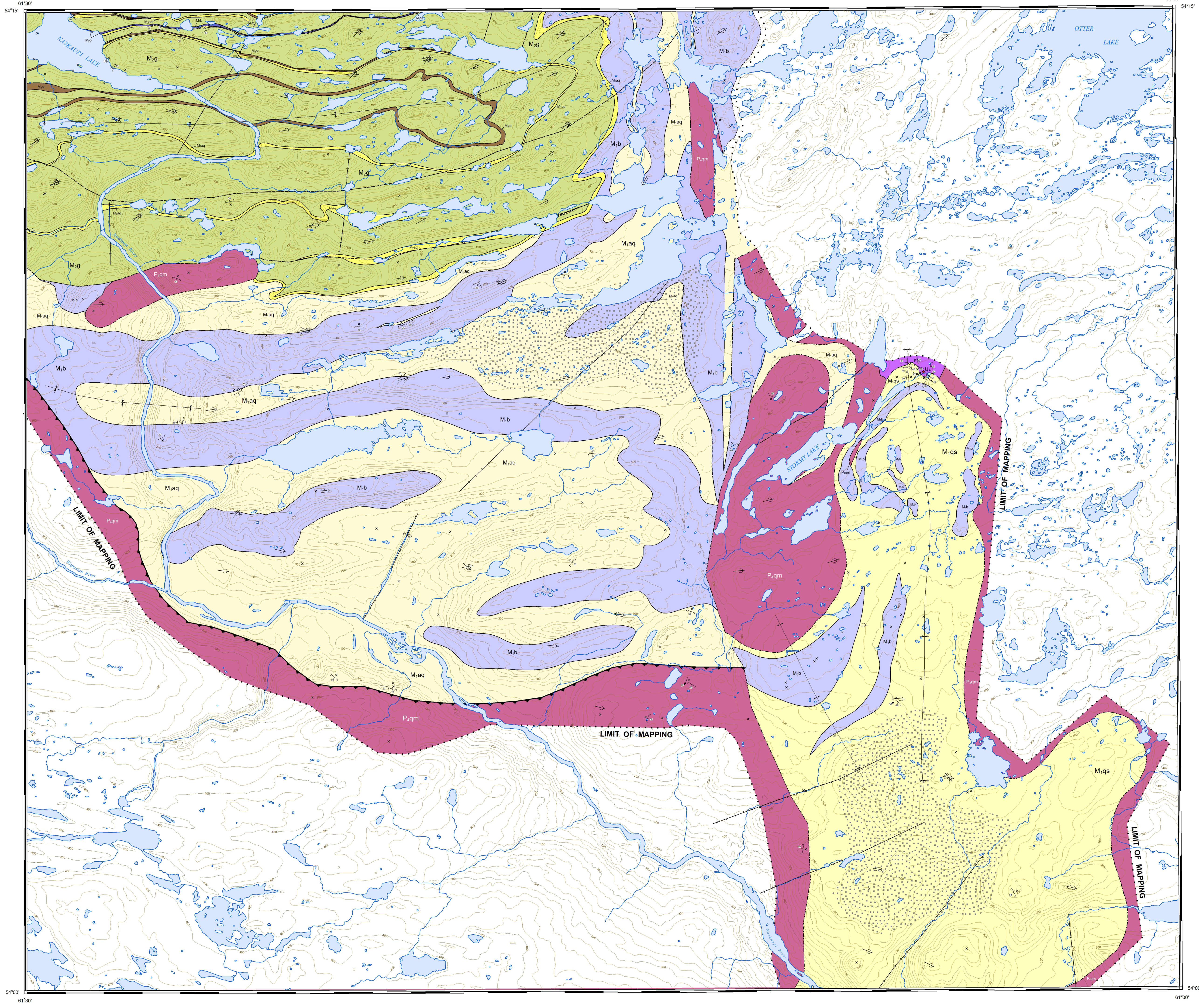
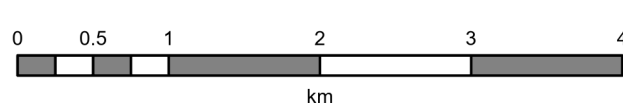
NTS 13K/03 AEROMAGNETIC MAP



NTS 13K/03 Aeromagnetic map. G. Kihl, 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.



Map 2023-16
GEOLOGY OF THE
SANTA CLAUS MOUNTAIN
MAP AREA (NTS 13K/03)
OPEN FILE 13K/03/0353
Scale 1:50 000



MIDDLE MESOPROTEROZOIC

Seal Lake Group (1270-1225 Ma)

Upper Red Quartzite Formation

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