

LEGEND

Allochthonous Units

LOWER PROTEROZOIC (APHESIAN)

21 Granitoid intrusions: 21a, foliated to gneissic, biotite- or hornblende-bearing granodiorite to quartz monzonite and rare monzonite, generally fine- to medium-grained; 21b, foliated K-feldspar-megacrystic granodiorite.

20 Gabbroid intrusions: variably deformed and recrystallized meta-igneogenic to metamorphic rocks, frequently with corona textures. Generally medium- to coarse-grained.

19 Quartzofeldspathic Gneisses: upper amphibolite facies, banded, migmatitic rocks, composed of medium-grained, quartz-K-feldspar-plagioclase leucosomes separated by thin, fine-grained matrix seams of biotite, sillimanite (rarely kyanite), magnetite, local garnet and rare spinel.

Autochthonous and Parautochthonous Units

MIDDLE PROTEROZOIC (HELIKIAN)

18 Shabogamo Intrusive Suite: 18a, metabasalt and metagabbro with relict igneous texture; 18b, amphibolite and hornblende-plagioclase ± biotite schist; 18c, actinolite-biotite-chlorite-plagioclase schist; 18d, metadiorite to granodiorite; 18e, meta-anorthosite; 18f, very fine-grained metagabbro; 18g, metaperidotite and talc-actinolite schist.

17 Simi Formation: 17a, arkose; 17b, orthoquartzite.

LOWER TO MIDDLE PROTEROZOIC

16 Granitoid intrusions: 16a, grey, megacrystic granite (including the Sandgirt pluton); 16b, pink, plagioclase-perthite quartz monzonite (Atkinson River pluton); 16c, microgranite, apatite; 16d, grey granodiorite; 16e, equigranular granite to quartz monzonite, generally pink.

15 Blueberry Lake group: 15a, felsic volcanic rocks, predominantly rhyolite and rhyodacite; 15b, basaltic to intermediate volcanics; 15c, felsic crystal and crystal-litic tuffs; 15d, tuffaceous sandstone and greywacke, minor phyllite and slate; 15e, polymictic conglomerate; 15f, porphyritic tuff.

LOWER PROTEROZOIC (APHESIAN)

14 Montagnais Intrusive Suite: gabbro, metabasalt and amphibolite, locally garnetiferous.

Knob Lake Group (units 3-13)

13 Tamarack River Formation: 13a, green-grey dolomitic siltstone; 13b, red arkose and siltstone; 13c, biotite-arkose and minor pebble conglomerate; 13d, red algal dolomite and arkose; 13e, green and red siltstone, mudstone and minor red sandstone; 13f, red arkose and siltstone.

12 Menihik Formation: 12a, dark grey to black schist, phyllite and slate, commonly graphite-bearing; 12b, quartzofeldspathic schist and gneiss, commonly aluminosilicate and/or graphite-bearing.

11 Sokoman Formation: 11a, carbonate iron formation; 11b, silicate and silicate-carbonate iron formation; 11c, oxide iron formation; 11d, ferrous quartzite; 11e, quartz-garnet-two amphibole ± pyroxene iron formation; 11f, cherty magnetite greywacke; 11g, cherty magnetite iron formation with buff bands and fragments; 11h, leached iron formation, original lithotype unknown in some cases.

10 Nimish Formation: mafic volcanics, conglomerate and pyroclastics.

9 Wishart Formation: 9a, coarse-grained, white, crystalline quartzite; 9b, pelitic schist; 9c, quartz pebble conglomerate with pelitic schist matrix.

8 Rose Bay ultramafic eruptives: actinolite-chlorite-biotite ± carbonate ± plagioclase schist, interpreted to be derived from tuffaceous volcanics and volcanoclastic sediments; locally contains recognizable volcanic fragments, occurs as lenticular bodies within units 5, 6, 7 and 11; cherty affinities to millitites.

McKey River formation (units 6 and 7)

7 Mafic metavolcanic rocks: predominantly with greenschist mineralogy; 7a, with relict pillow structures; 7b, massive; 7c, with relict vesicular texture; 7d, plagioclase-porphyrphyritic metavolcanics; 7e, agglomerate.

6 Metatuffaceous Sediments and Conglomerate: 6a, chlorite actinolite-albite-quartz-epidote schist, may contain considerable carbonate; 6b, volcanogenic conglomerate with chlorite schist matrix; 6c, garnetiferous amphibolite, occurs interlayered with units 5, 11 and less commonly 4.

5 Denault Formation: 5a, dolomitic and calcitic marble with variable content of quartz and calc-silicate minerals, including tremolite, diopside, talc and phlogopite; 5b, dolomitic marble with inter-banded chlorite schist.

4 Attikamagen Formation: 4a, biotite-bearing quartzofeldspathic schist; 4b, biotite-bearing quartz-K-feldspar schist; 4c, migmatitic quartzofeldspathic gneiss; 4d, porphyroclastic augen schist; 4e, megacrystic siltstone and slate; 4f, grey to black phyllite.

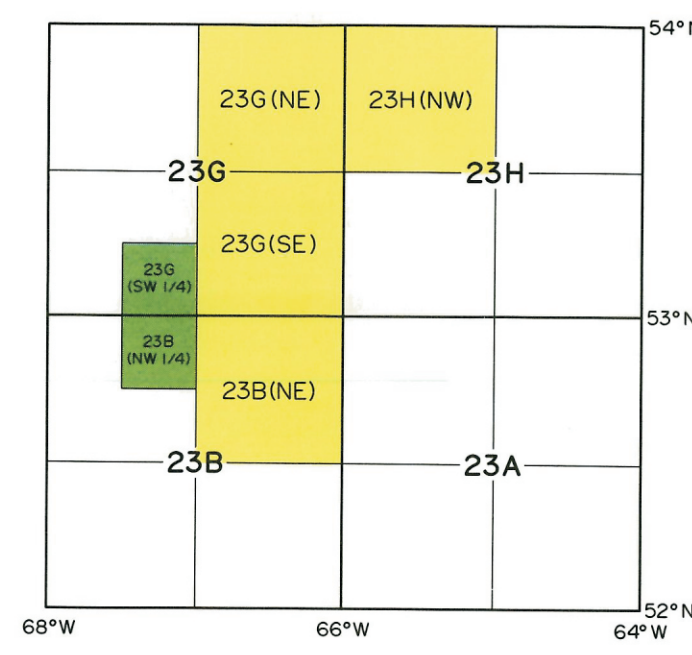
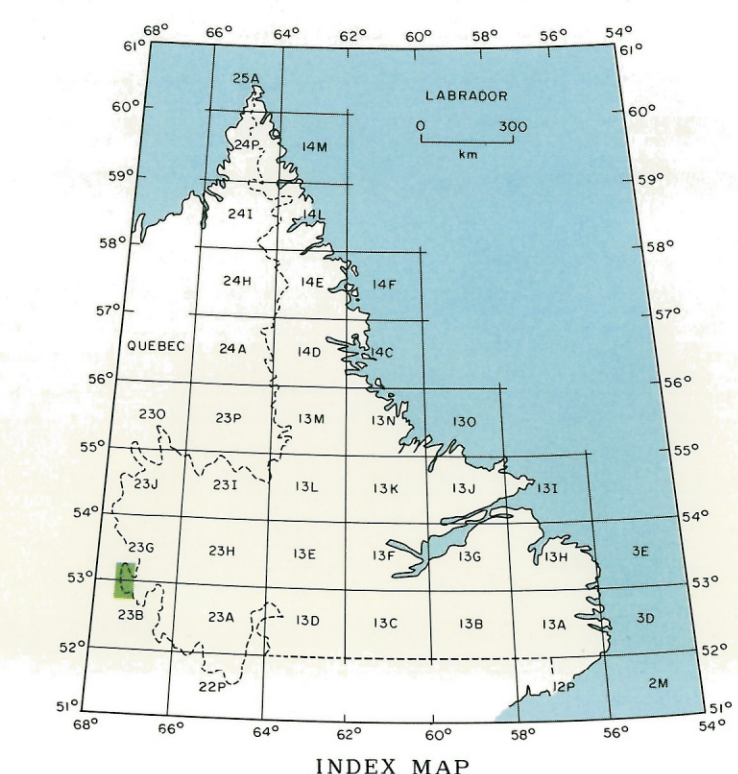
3 Seward Subgroup: pink meta-arkose, conglomerate.

2 Granitoid intrusions: 2a, coarse-grained, alkalic granite with variably developed cataclastic fabric; 2b, foliated megacrystic and equigranular granite and granodiorite.

ARCHEAN

1a Ashuanipik Metamorphic Complex: banded ferromagnesian and granitoid gneisses, typically migmatitic and orthopyroxene-bearing, variably retrogressed in the vicinity of the Grenville Front. 1b, Eastern Basement Metamorphic Complex: granodiorite to tonalite gneiss, minor supracrustal gneiss; variably mylonitized and retrogressed; 1c, amphibolite.

Note: This legend is common to all the maps in this series. Units without color do not occur on this map.



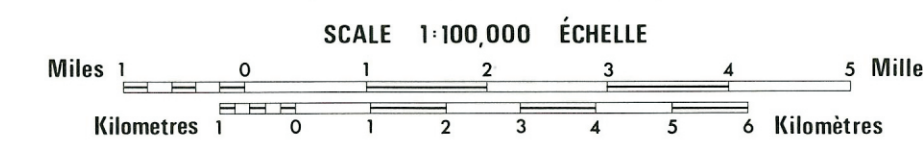
Geological mapping by ground traversing in areas of abundant outcrop, and by helicopter-supported traversing elsewhere.

Geology in maps of this series as follows: 23B (NE), T. Rivers, 1977, 1979, 1980; 23G (SE), T. Rivers, 1977, 1979; T. Rivers and N. Massey, 1978; 23G (NE), T. Rivers, 1979; 23H (NW), R.J. Wardle, 1978; M.J. Ware, 1978; N. Noel, 1979; T. Rivers, 1979; R.J. Wardle and J.M. Britton, 1980; R.J. Wardle, 1982; 23H (NW) (46) (23G (SW) (46)), T. Rivers, 1979, 1980; incorporating the previous mapping of Labrador Mining and Exploration Company, from One Company of Canada, Newfoundland and Labrador Corporation and others. Integration of 23B (NE), 23G (SE), 23H (NW) (46) (23G (SW) (46)) by T. Rivers, 23G (NE) by T. Rivers and R.J. Wardle, 23H (NW) by R. Wardle (northern half) and T. Rivers (southern half).

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**GEOLOGY OF THE
LAC VIOT AREA,
LABRADOR - QUEBEC**

(parts of 23G and 23B)



Elevations given in feet above mean sea level.

Approximate magnetic declination in 1980 was 2° 42' W, decreasing by 4.0' annually.

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