

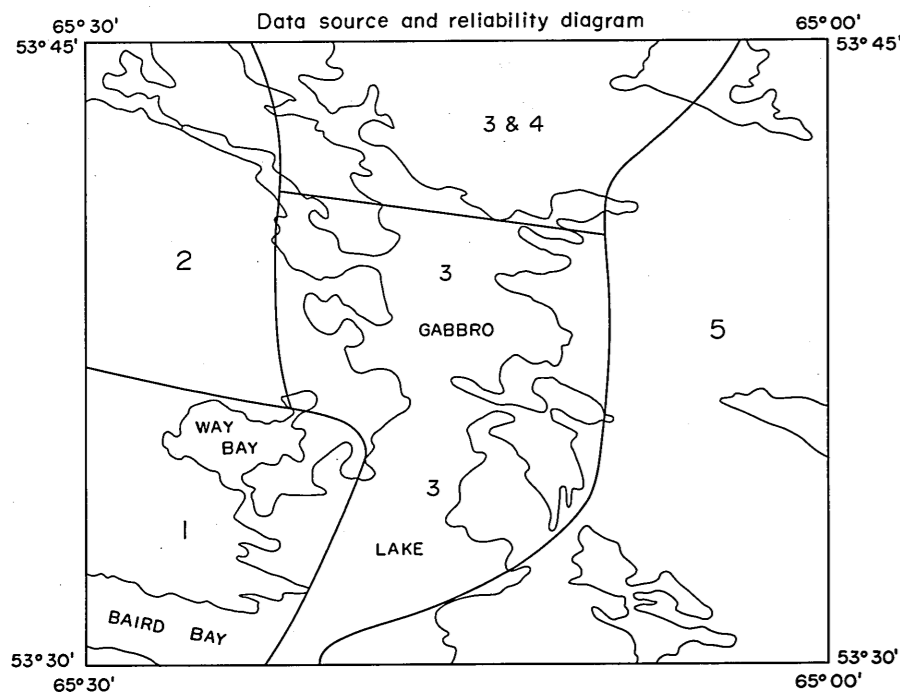
- LEGEND**
- HELIKIAN**
- 14 GRANTOID INTRUSIONS: 14a, Granodiorite, granite, megacrystic in places; 14b, quartz monzonite; 14c, microgranite, aplite
- SHABOGAMO INTRUSIVE SUITE**
- 13a, Metamorphosed quartz monzonite, quartz diorite and monzogabbro; 13b, metamorphosed porphyritic monzonite and granite
- 12a, Metagabbro and metanorite with relic igneous texture; 12b, amphibolite and hornblende - plagioclase ± biotite schist; 12c, actinolite - chlorite - plagioclase schist; 12d, metamorphosed diorite and granodiorite; 12e, meta-anorthosite; 12f, very fine grained metabasalt; 12g, metapelite and talc-actinolite schist
- 11 SMS FORMATION: 11a, Arkose; 11b, orthoquartzite
- 10 BLUEBERRY LAKE GROUP: 10a, Felsic volcanic rocks, predominantly rhyolite and rhyodacite; 10b, basaltic and intermediate flows and tuffs; 10c, felsic crystal and crystal lithic tuffs, minor volcanic breccia; 10d, tuffaceous sandstone, siltstone and graywacke, minor phyllite and slate; 10e, polyimic conglomerate; 10f, late porphyry
- APHEBIAN**
- KNOB LAKE GROUP**
- 9 MENIHEK FORMATION: 9a, Dark gray to black schist, phyllite and slate, commonly graphite bearing; 9b, quartz-feldspar-biotite schist
- 8 SOKOMAN FORMATION: 8a, Carbonate iron formation; 8b, silicate and silicate carbonate iron formation; 8c, oxide iron formation; 8d, ferruginous quartzite; 8e, quartz - garnet - two amphibole ± pyroxene schist/gneiss; 8f, cherty magnetite graywacke; 8g, cherty magnetite iron formation with tuff bands and fragments; 8h, leached iron formation, original lithology unknown in some cases
- 7 WISHART FORMATION: 7a, Coarse grained white crystalline quartzite; 7b, pelitic schist; 7c, quartz pebble conglomerate with pelitic schist matrix
- NIMISH SUBGROUP**
- 6 MAFIC METAVOLCANIC ROCKS: Predominantly with greenish mineralogy; 6a, with relic pillow structures; 6b, massive; 6c, with relic vesicular texture; 6d, porphyritic; 6e, agglomerate
- 5 METATUFFACEOUS SEDIMENTS AND CONGLOMERATE: 5a, Actinolite - chlorite - biotite schist, tuffaceous fragments common; may contain up to 50% carbonate; 5b, oligoclase, volcanogenic conglomerate with actinolite ± chlorite schist matrix; minor volcanogenic siltstone and shale; 5c, interbedded volcanogenic and pelitic metasediments; 5d, garnetiferous amphibolite
- 4 DENAULT FORMATION: 4a, Dolomitic and calcitic marble; 4b, dolomitic marble with actinolite-chlorite schist
- 3 ATTIKAMAGEN FORMATION: 3a, Biotite bearing quartz-feldspar schist; 3b, biotite bearing quartz-K-feldspar schist; 3c, magnetite quartzofeldspathic schist/gneiss; 3d, porphyroclastic augen schist; 3e, metagraywacke - siltstone - slate; 3f, gray-black phyllite
- APHEBIAN OR HELIKIAN**
- 2 GRANTOID INTRUSIONS: 2a, Coarse grained alkalic granite; 2b, porphyritic, megacrystic and non porphyritic granite
- ARCHEAN**
- 1 ASHUWANIP METAMORPHIC COMPLEX: 1a, Banded migmatitic gneiss including pyroxene bearing granites, diorite and minor gabbro; 1b, EASTERN BASIN METAMORPHIC COMPLEX: Granodiorite - tonalite gneiss, variably mylonitized and retrogressed; 1c, layered sulphide bearing plagioclase and amphibolite (occurs as enclaves in unit 1b)

NOTE: The use of both sedimentary and metamorphic terminology reflects the varying appearance of the rocks in the field. All units are metamorphosed.

This legend and list of symbols are common to several map sheets. Some units and symbols may not occur on this map.

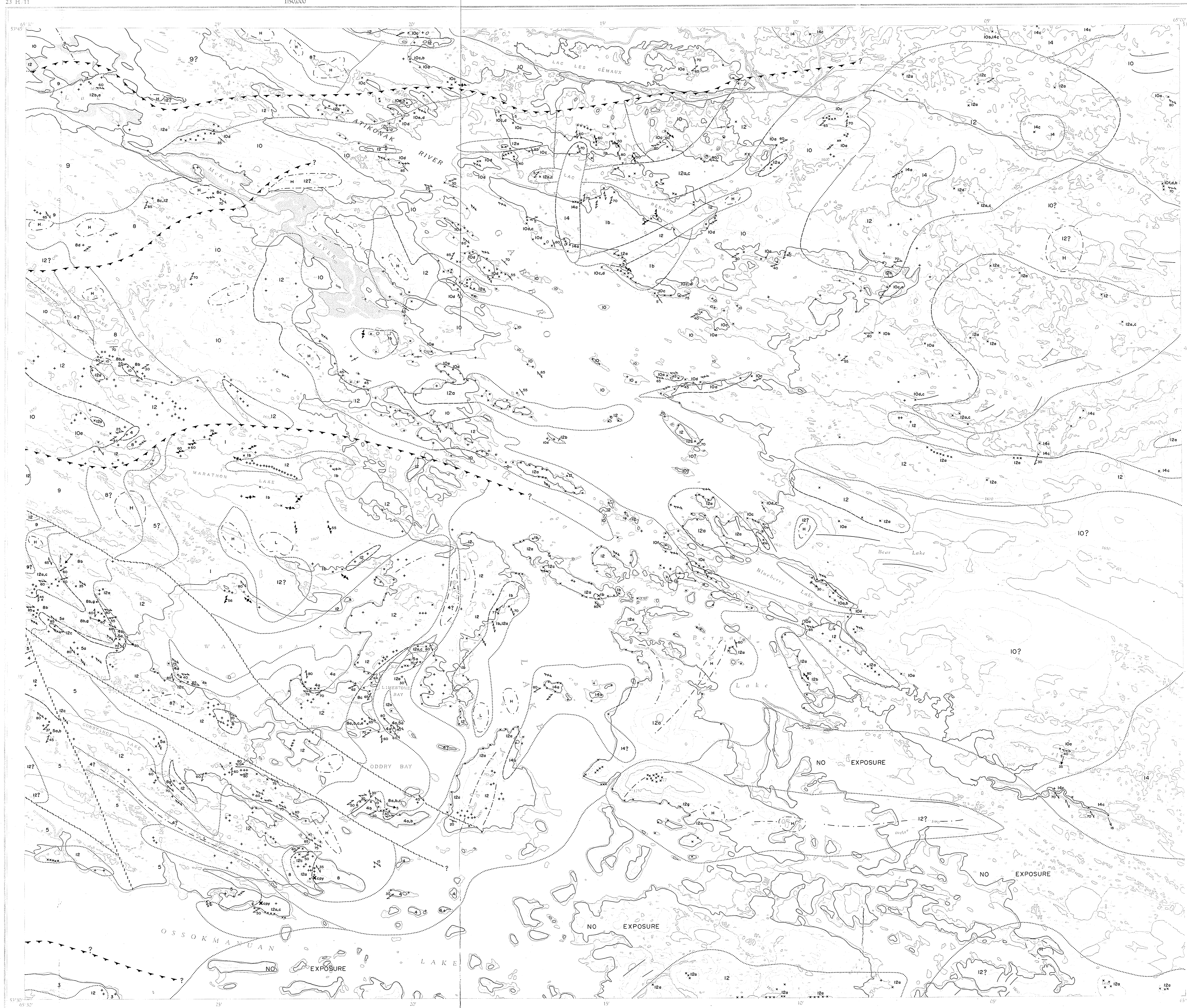
SYMBOLS

- Outcrop, large outcrop x
- Outcrop, large outcrop (compiled) +
- Geological contact (defined, approximate, assumed) -
- Fault, reverse or normal (defined, approximate, assumed) //
- Thrust fault, (defined, approximate, assumed) //
- Hudsonian lineament (may represent overturned fold axis and/or thrust fault) -
- Bedding, tops unknown (inclined, vertical, horizontal) /
- Bedding, tops known (inclined, vertical, horizontal) /
- Primary igneous layering, tops known (inclined, vertical, horizontal) /
- Primary igneous layering tops unknown (inclined, vertical, horizontal) /
- Strike and dip of pillows, tops known (inclined, vertical) /
- Strike and dip of pillows, tops unknown (inclined, vertical) /
- S₁ slaty cleavage or schistosity (inclined, vertical, horizontal) (generally parallel to S₂ in map area) /
- S₂ crenulation or differentiated cleavage (inclined, vertical, horizontal) /
- Gneissic banding (inclined, vertical, horizontal) /
- Sense of vergence of minor fold /
- Producing iron ore mine x
- Lineation defined by:
- mineral alignment /
 - ridging /
 - S₁ intersections /
 - microconformations /
 - metamorphic appressure /
 - deformed pillows /
 - minor fold axes (of unknown age) /
 - minor fold axes (L₁) /
 - minor fold axes (L₂) /
- Structural trends (from air photographs) /
- Diamond drill hole x
- Mineral occurrences
- cp - chalcopyrite
 - py - pyrite
 - ps - pyrrhotite
 - ma - magnetite
 - hm - hematite
- Age dating locality (age in millions of years) Kb 900
- Method
- R - Rd/Sr
 - K - K/Ar
 - b - biotite
 - m - muscovite
 - w - whole rock
- Aeromagnetic anomaly (H - high; L - low) (shown only in areas of little or no outcrop) H L
- Aeromagnetic lineament -
- Shoreline after flooding /



1. Ground traversing by N. Noel (1979)
2. Helicopter traversing by N. Noel and T. Rivers (1979)
3. Boat and helicopter traversing by R. Wards (1978), R. Wards and T. Rivers (1980)
4. Boat traversing by J. Britton (1980)
5. Helicopter traversing by R. Wards and J. Britton (1980)

Compiled information from various Labrador Mining and Exploration Company and Iron Ore Company of Canada sources. Map interpreted by T. Rivers 1979, 1980.



PUBLISHED, 1982

Geology by R. Wards (1978), N. Noel and T. Rivers (1979), R. Wards, T. Rivers and J. Britton (1980), incorporating information from Labrador Mining and Exploration Company and Iron Ore Company of Canada. Interpretation by T. Rivers (1980).

Geological cartography by Mineral Development Division, Department of Mines and Energy, Government of Newfoundland and Labrador.

Source of this map may be obtained from the Publications and Information Section, Mineral Development Division, Department of Mines and Energy, P.O. Box 4500, St. John's, Newfoundland A1C 2T7.

Base map at some scale published by the Surveys and Mapping Branch, Department of Energy, Mines and Resources, Ottawa, 1971.

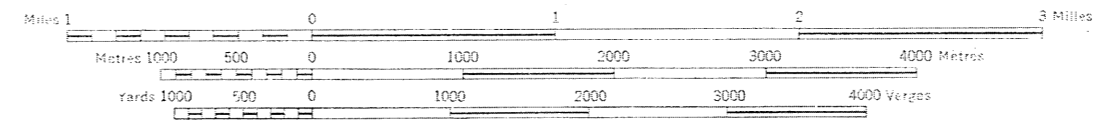
Elevations in feet above mean sea level.

Approximate magnetic declination, 1980, for centre of map 3° 42' west, increasing 1.0' annually.

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Published, 1981.

**GABBRO LAKE
NEWFOUNDLAND
MAP 81-14
SCALE 1:50,000 ÉCHELLE**



CONTOUR INTERVAL 50 FEET

Elevations in Feet above Mean Sea Level

North American Datum 1927

Magnetic Declination 3° 42' WEST

AT CENTRE OF MAP 1980

Annual Change (increasing) 1.0'

The accuracies on this map have not been submitted to the Canadian Board on Geographical Names and may be subject to revision. Information on names is invited by the Surveys and Mapping Branch.

