



Note: This legend is common for National Geochemical Reconnaissance Map 54-1982, Open File 901; Map 55-1982, Open File 902; Map 56-1982, Open File 903; Map 57-1982, Open File 904.

- SEDIMENTARY, VOLCANIC AND METAMORPHIC ROCKS
- HADRYNIAN AND/OR NEOHELIKIAN
- 34 [HDHL]\*, (ARKS)\*\* Red conglomerate, arkose, and siltstone.
- HELIXIAN AND EARLIER (?)
- 33 [HUGP] Paragneisses, granitoid gneisses of probable sedimentary origin, minor quartzite and marble. . .
- APHEBIAN
- 32 [APHG] Dolomite, marble, quartzite, iron formation, parashist and paragneiss. . .
  - 31 [HUGN] Sillimanite gneiss, commonly migmatitic. Minor amphibolite.
  - 30 [HUGG] Granitic gneiss, mainly pink quartzo-feldspathic gneisses, commonly banded and migmatitic. . .
  - 29 [AGWF] Iron formation: WABUSH FORMATION
  - 28 [HUGB] Intermediate to basic gneiss, amphibolite.
  - 27 [HUGA] Garnetiferous gabbroic gneiss.
- APHEBIAN AND EARLIER (?)
- 26 [AUGP], (GRNG) Metasedimentary granitoid gneisses, minor amphibolite, sillimanite gneiss, metaquartzite, marble. . .
  - 25 [AUGN] Sillimanite gneiss, with abundant intrusive pegmatitic material, minor amphibolite.
  - 24 [AUGR] Granulitic, dioritic to granodioritic gneiss.
  - 23 [AUGB] Amphibolite, pyroxene amphibolite, chlorite schist, garnet- and biotite-rich gneisses.
  - 22 [AUGS] Marble.
- ARCHEAN
- 21 [ARCG] Granitic gneiss, amphibolite, unseparated massive acidic intrusives.
  - 20 [ARCS], (PXGL) Pyroxene granulite, unseparated acidic intrusives: ASHUANIPI COMPLEX.
- CHURCHILL PROVINCE
- HELIXIAN
- 19 [NHWS] Quartzite, conglomerate, arkose, shale. . .
- PALEOHELIXIAN
- 18 [PHWS], (QRTZ) Quartzite, grit and conglomerate of SIMS FORMATION.
- PALEOHELIXIAN AND/OR APHEBIAN
- 17 [PHAW] Greywacke, quartzite, arkose, slate, phyllite, basic to intermediate volcanic rocks, derived schists and gneisses. . .
- APHEBIAN
- 16 [VAW2], (BSLT) Basaltic flows and pyroclastics, quartzite, greywacke, slate. . . (basic volcanic rocks).
  - 15 [APW1], [VAPW], [UAPW], (SMRK) Grit, arkose, conglomerate, quartzite, greywacke, slate, acidic to basic volcanics. . .
  - 14 [AW1S], (SLTE) Ferruginous slate and iron formation RUTH and COKOMAN FORMATIONS OF KNOB LAKE GROUP.
- APHEBIAN AND EARLIER (?)
- 13 [AUWR], (GRNL) Granulite, pyroxene gneiss, charnockite; minor granitic gneiss, mylonitic gneiss. . .
  - 12 [AUWG], (GRNG) Granitic gneiss, granodioritic gneiss, migmatite, agmatite, amphibolite. . .
  - 11 [AUWB], (AMPB) Amphibolite, pyroxene amphibolite, chlorite schist, garnet- and biotite-rich gneiss.

- INTRUSIVE ROCKS
- CAMBRIAN AND EARLIER
- 10 [CM18] Diabase dykes, radiometric ages range from Cambrian to Archean.
- HELIXIAN
- 9 [NH17] Diabasic olivine gabbro, intermediate and ultramafic intrusive rocks. . .
- NEOHELIXIAN AND EARLIER (?)
- 8 [NH15] Granite to granodiorite, massive to poorly foliated, porphyritic in part. . .
- PALEOHELIXIAN
- 7 [PH14], (GRNT) Granite, quartz monzonite, granodiorite, quartz diorite, syenite. . .
  - 6 [PH13], (QZM2) Adamellite suite: adamellite, monzonite, agenite, granodiorite, granite and their hypersthene. . .
  - 5 [PH11], (ANRS) Anorthosite suite: anorthosite, anorthositic gabbro, leucotroctolite. . .
  - 4 [PH10], (UMFC) Gabbro, norite, anorthositic gabbro, troctolite, diorite, derived basic gneisses and amphibolite. . .
- APHEBIAN
- 3 [AP6W], (GBBR) Gabbro-WAKUACH GABBRO-Gabbro, metagabbro, glomeroporphyritic gabbro and diorite. . .
- ARCHEAN
- 2 [ARC2] Massive granite and quartz monzonite.
  - 1 [ARC1], (PXGD) Massive to poorly foliated pyroxene-bearing granodiorite and syenodiorite.
- \* A four letter mnemonic name recorded as rock type as part of 1982 field observations.  
\*\* A four letter mnemonic name recorded as rock type as part of 1978 field observations.
- Geological boundary . . . . .  
Fault . . . . .  
Mainly acidic volcanic rocks . . . . .  
Mainly basic volcanic rocks . . . . .  
No analytical result . . . . .

This legend was modified and the geology derived for this geochemical map from Geology Map of Labrador, Mineral Resources Division, Department of Mines, Agriculture and Resources, Province of Newfoundland and Labrador.

Geological Survey of Canada  
Resource Geophysics and Geochemistry Division  
and  
Newfoundland Department of Mines and Energy  
Mineral Development Division

CONTRACTORS

Sample collection by Marshall Macklin Monaghan Ltd.  
Sample preparation by Golder Associates

1978 samples

Uranium in sediment chemical analyses by Atomic Energy of Canada Ltd.  
Other sediment chemical analyses by Chemex Labs Ltd.  
Water chemical analyses by Barringer Research Ltd.

1982 samples

Sediment chemical analyses by Chemex Labs Ltd.  
Water chemical analyses by Acme Analytical Laboratories Ltd.

This map forms one of a series of 80 maps released by the Geological Survey of Canada, Open Files 901, 902, 903, 904. The Open Files consist of maps for 15 elements, each for lake sediments; 2 elements for lake water; and 1 each for sediment loss-on-ignition, water pH and sample site location.

Copies of map material and listings of field observations and analytical data, from which the material was prepared, may be available at users expense by application to:

K.G. Campbell Corporation  
880 Wellington St.  
Bay 238  
Ottawa, Ontario  
K1R 6K7

The Data is also available in digital form. For further information please contact:

The Director  
Computer Science Center  
Department of Energy, Mines and Resources  
Ottawa, Ontario  
K1A 0E4



Elevation in feet above mean sea level

Magnetic declination 1983 varies from 27°55.8' westerly at centre of west edge to 28°39.6' westerly at centre of east edge. Mean annual change -12.25' westerly

VANADIUM (ppm)  
OPEN FILE 901  
NATIONAL GEOCHEMICAL RECONNAISSANCE MAP 54-1982  
CANADA-NEWFOUNDLAND  
co-operative mineral program 1982-1984  
WEST LABRADOR 1982  
Scale 1:250 000 Échelle  
Kilometres 6 0 6 12 18 Kilomètres  
Universal Transverse Mercator Projection  
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Base-map assembled by the Geological Cartography Unit from maps published at the same scale by the Surveys and Mapping Branch in 1965

