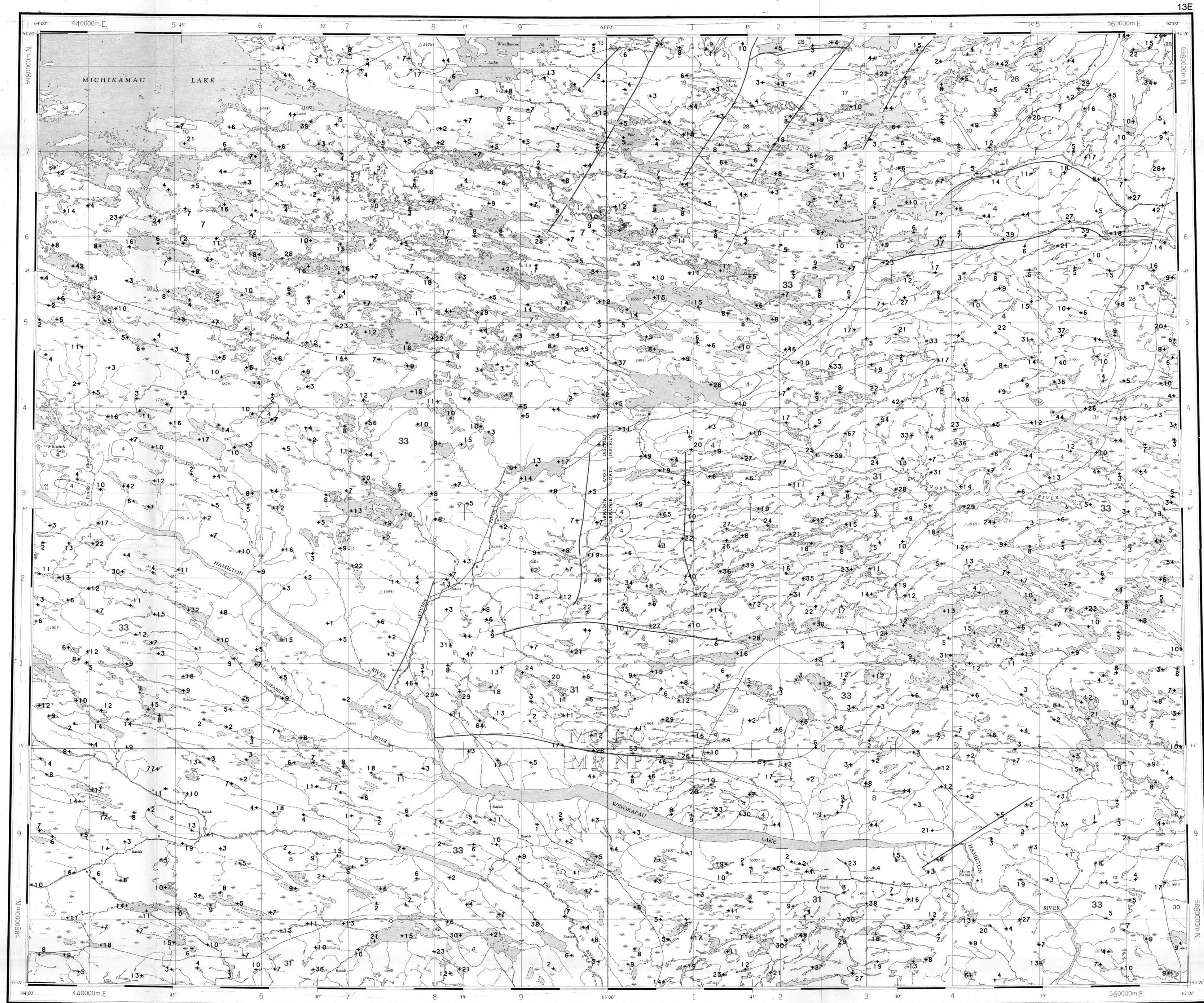


Copies of map material and listings of field observations and analytical data, from which the material was prepared, may be available at users expense by application to:

K.G. Campbell Corporation
880 Wellington St.
Box 238
Ottawa, Ontario
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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
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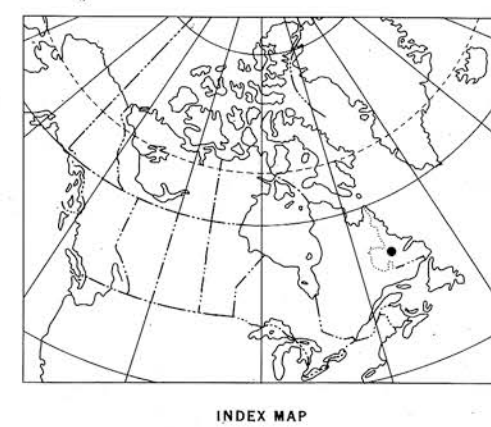


COBALT (ppm)
OPEN FILE 901
NATIONAL GEOCHEMICAL RECONNAISSANCE MAP 54-1982
CANADA-NEWFOUNDLAND
co-operative mineral program 1982-1984
WEST LABRADOR 1982
Scale 1:250 000 Échelle
Universal Transverse Mercator Projection
Projection transversale universelle de Mercator
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Base-map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

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



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] [HOHL]*, (ARKS)** Red conglomerate, arkose, and siltstone.
- GRENVILLE PROVINCE
- HELIKIAN AND EARLIER (?)
- [33] [HUGP] Paragneisses, granitoid gneisses of probable sedimentary origin, minor quartzite and marble. . .
- APHEBIAN
- [32] [PHG], Dolomite, marble, quartzite, iron formation, paraschist and paragneiss. . .
- [31] [HUGN] Sillimanite gneiss, commonly migmatitic. Minor amphibolite.
- [30] [HUGG] Granitic gneiss, mainly pink quartz-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.
- SUPERIOR PROVINCE
- ARCHEAN
- [20] [ARCS], (PXGL) Pyroxene granulite, unseparated acidic intrusives: ASHUANIPPI COMPLEX.
- CHURCHILL PROVINCE
- HELIKIAN
- NEOHELIKIAN
- [19] [NHWS] Quartzite, conglomerate, arkose, shale. . .
- PALEOHELIKIAN
- [18] [PHWS], (QRTZ) Quartzite, grit and conglomerate of SIMS FORMATION.
- PALEOHELIKIAN AND/OR APHEBIAN
- [17] [PHAW] Greywacke, quartzite, arkose, slate, phyllite, basic to intermediate volcanic rocks, derived schists and gneisses. . .
- APHEBIAN
- [16] [VAVW], (BSLT) Basaltic flows and pyroclastics, quartzite, greywacke, slate. . . (basic volcanic rocks).
- [15] [APW], [VAPW], [SMRK] Grit, arkose, conglomerate, quartzite, greywacke, slate, acidic to basic volcanics. . .
- [14] [AWIS], (SLTE) Ferruginous slate and iron formation RUTH and COKOMAN FORMATIONS OF KNOB LAKE GROUP.
- APHEBIAN AND EARLIER (?)
- [13] [AUNR], (GRNL) Granulite, pyroxene gneiss, charnockite; minor granitic gneiss, mylonitic gneiss. . .
- [12] [AUNG], (GRNG) Granitic gneiss, granodioritic gneiss, migmatite, agmatite, amphibolite. . .
- [11] [AUNB], (AMPB) Amphibolite, pyroxene amphibolite, chlorite schist, garnet- and biotite-rich gneiss.

LEGEND

- INTRUSIVE ROCKS
- CAMBRIAN AND EARLIER
- [10] [CM18] Diabase dykes, radiometric ages range from Cambrian to Archean.
- HELIKIAN
- NEOHELIKIAN
- [9] [NH17] Diabasic olivine gabbro, intermediate and ultramafic intrusive rocks. . .
- NEOHELIKIAN AND EARLIER (?)
- [8] [NH15] Granite to granodiorite, massive to poorly foliated, porphyritic in part. . .
- PALEOHELIKIAN
- [7] [PH14], (GRNT) Granite, quartz monzonite, granodiorite, quartz ciorite, syenite. . .
- [6] [PH13], (QZMZ) Adamellite suite: adamellite, monzonite, agenite, granodiorite, granite and their hypersthene. . .
- [5] [PH11], (ANRS) Anorthosite suite: anorthosite, anorthositic gabbro, leucotroctolite. . .
- [4] [PH10], (UMFC) Gabbro, norite, anorthosite 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.