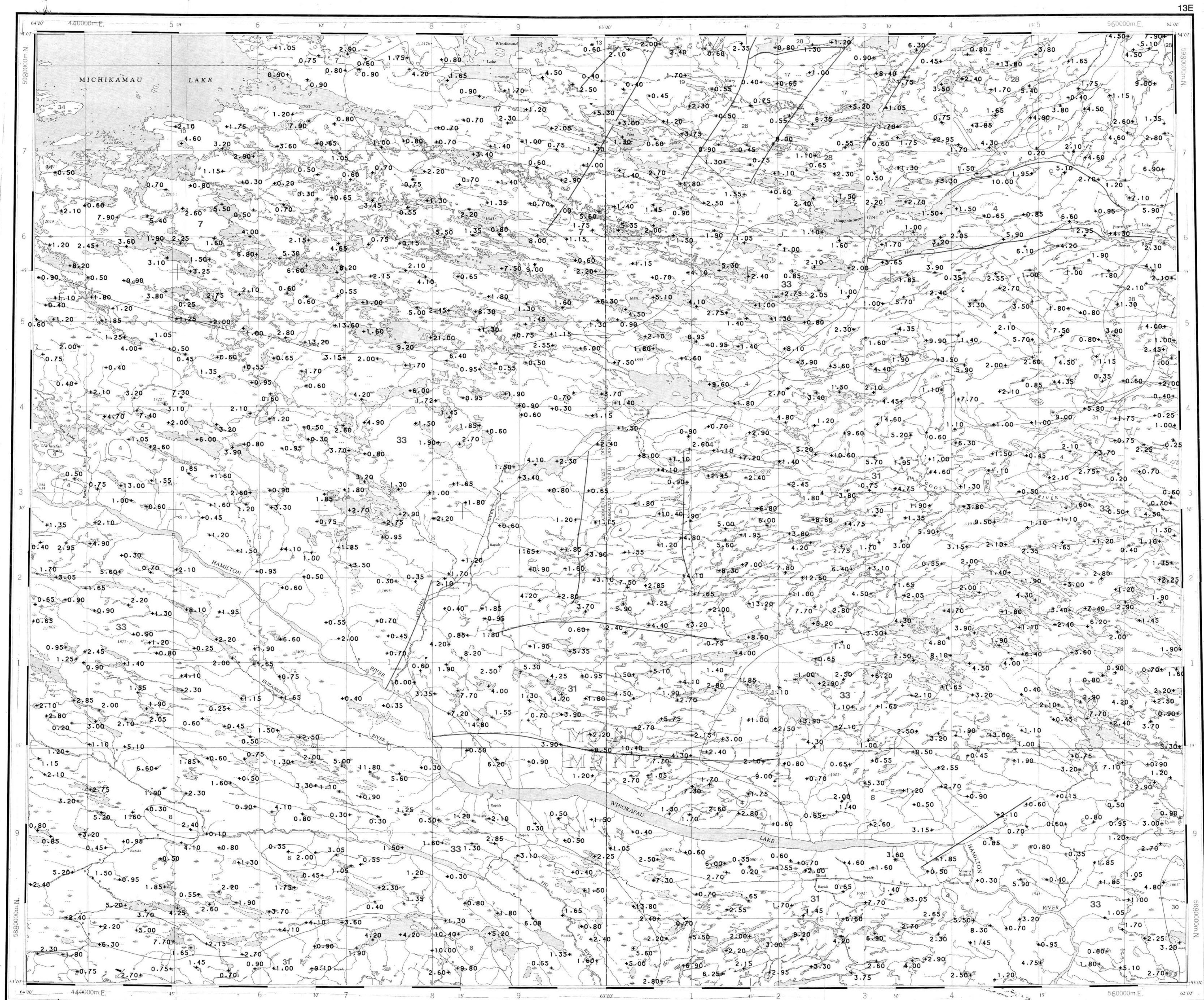


Copies of map material and listings of field observations and analytical data, from which the material was prepared, may be available at users expense by application to:

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:

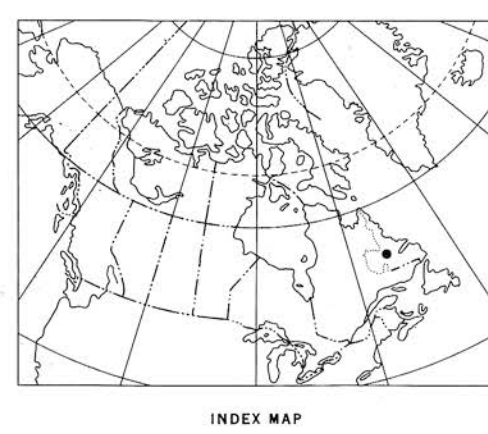
The Director
Computer Science Center
Department of Energy, Mines and Resources
Ottawa, Ontario
K1A 0E4



IRON (%)
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
Kilomètres 6 0 6 12 18 Kilomètres
Universal Transverse Mercator Projection
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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 [HDHL]*, (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 [APHG] Dolomite, marble, quartzite, iron formation, parascist 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.
SUPERIOR PROVINCE
ARCHEAN
20 [ARCS], (PXGL) Pyroxene granulite, unseparated acidic intrusives:
ASHUANIPI COMPLEX.

CHURCHILL PROVINCE
HELIKIAN
19 [INHWS] 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 [VAVW2], (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 [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 [AUGG], (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 clorite,
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 A A A
Mainly basic volcanic rocks V V V
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.

