Government of Newfoundland and Labrador
Newfoundland Department of Mines and Energy

Canada
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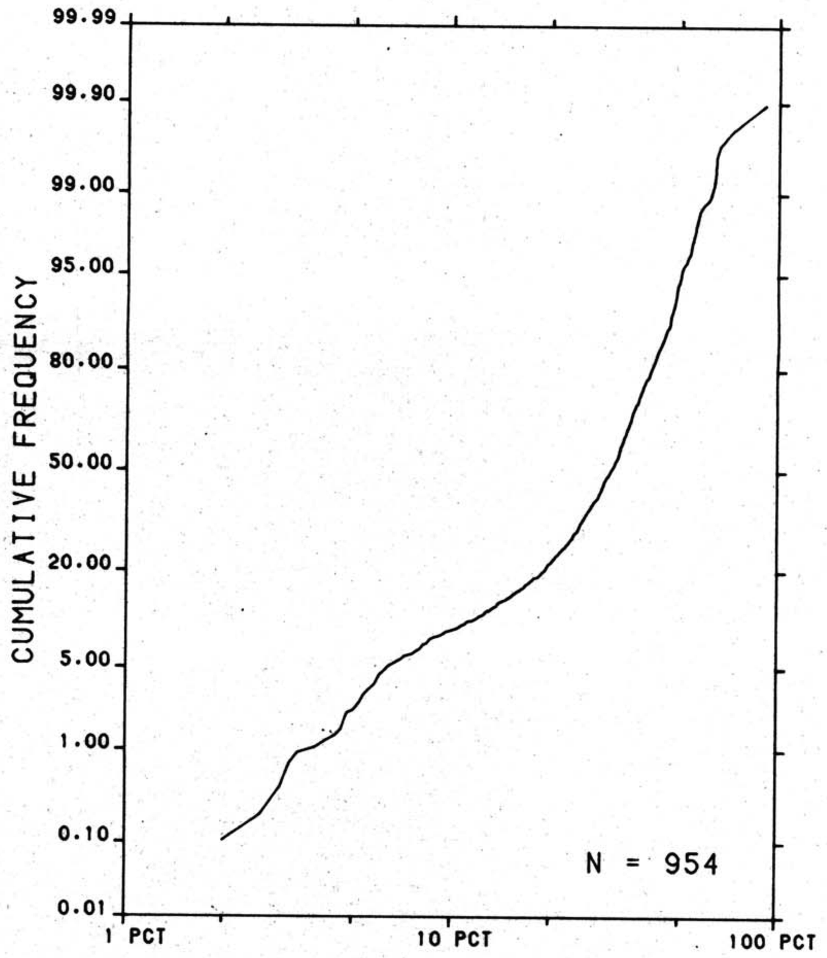

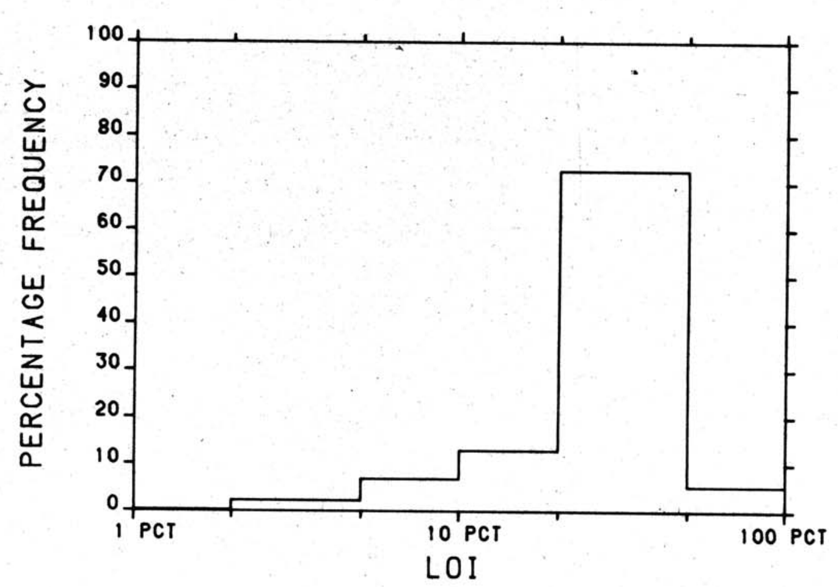

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Provincial Open File 13L (59)

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

CONTRACTORS

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

1978 samples
Uranium in sediment analyses Atomic Energy of Canada Ltd.
Other sediment chemical analyses by Chemex Labs Ltd.
Water chemical analyses by Barringer Research Ltd.

1982, 1983 samples
Sediment chemical analysis by Chemex Lab Ltd.
Water chemical analyses by Acme Analytical Laboratories Ltd.

This map forms one of a series of maps released by the Geological Survey of Canada, Open Files 995 to 998. These Open File consists of maps of various geochemical variables: 16 for lake sediment, 3 for lake water and 1 sample site location

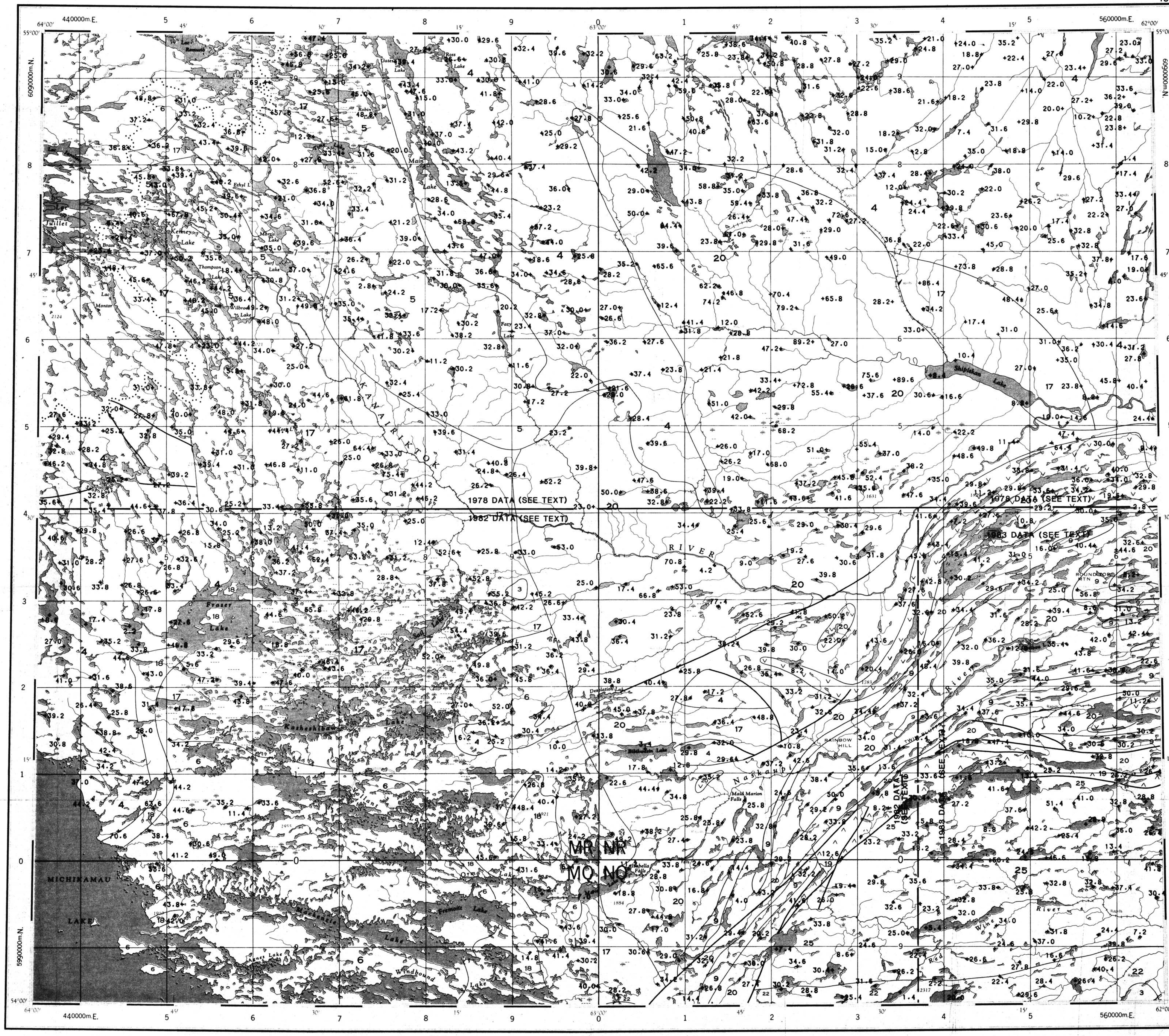
Copies of map material and listings of field observations and analytical data, from which the material was prepared, may be available at users expense by application to:

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

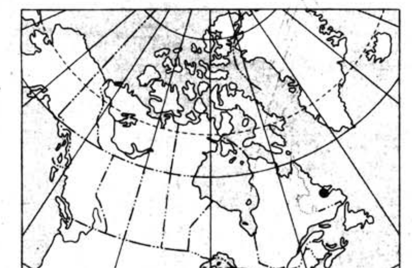
That data are also available in digital form. For further information please contact:

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

13 L



13 L



INDEX MAP

Elevation in feet above mean sea level

Mean magnetic declination 1984, 29°09.5' West, decreasing 13.0' annually. Readings vary from 28°54.8' in the SE corner to 29°21.4' in the NW corner of the map-area

LOSS ON IGNITION (%)

OPEN FILE 998

REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 63-1983

CANADA - NEWFOUNDLAND

CO-OPERATIVE MINERAL PROGRAM 1982-84

LAKE SEDIMENT AND WATER GEOCHEMICAL SURVEY

CENTRAL AND SOUTHERN LABRADOR, 1983

Scale 1:250 000

Kilometres 6 0 6 12 18 Kilometres

Universal Transverse Mercator Projection

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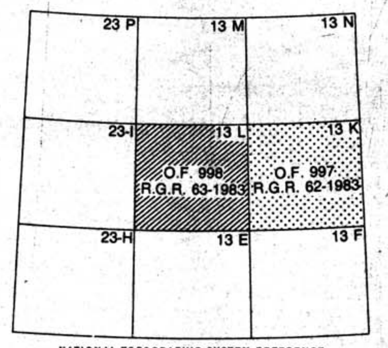
Base-map assembled by the Geological Cartography Unit from maps published at the same scale by the Surveys and Mapping Branch in 1967, 1968, 1972



NATIONAL TOPOGRAPHIC SYSTEM REFERENCE

LEGEND

Note: This legend is common for Regional Geochemical Reconnaissance Map 60-1983, Open File 995; 61-1983, Open File 996; 62-1983, Open File 997; 63-1983, Open File 998.

SEDIMENTARY, VOLCANIC AND METAMORPHIC ROCKS

HADRYNIAN

- 28 HDDF* Red conglomerate, arkose, sandstone and shale: DOUBLE MER FORMATION

GRENVILLE PROVINCE

HELIKIAN AND/OR APHEBIAN

- 27 HAGS, VHAG Metaquartzite, schistose grit and conglomerate, sheared felsic porphyry ...
- 26 HAGP Mainly garnetiferous biotite-quartz-feldspar paragneiss ...

HELIKIAN AND EARLIER(?)

- 25 HUGP Paragneisses, granitoid gneisses of probable sedimentary origin, minor quartzite and marble ...
- 24 HUGN Sillimanite gneiss, commonly migmatitic. Minor amphibolite
- 23 HUGG Granitic gneiss, mainly pink quartzo-feldspathic gneisses, commonly banded and migmatitic ...
- 22 HUGB Intermediate to basic gneiss, amphibolite

ARCHEAN

- 21 ARCG Granitic gneiss, amphibolite, unseparated massive acidic intrusives

CHURCHILL PROVINCE

HELIKIAN
NEOHELIKIAN

- 20 NHWS, VNHW, NHWK, (SMRK)** Quartzite, conglomerate, arkose, shale ...: NHWS - unseparated BESSIE LAKE ... FORMATION; NHWK - SHIPISKAN FORMATION (possibly younger)

PALEOHELIKIAN

- 19 UPHW Quartzite, grit conglomerate, acidic volcanics ... LETITIA GROUP
- 18 PHAW, PAWP Greywacke, quartzite, arkose, slate, ...: PAWP - PETSCAPISKAN GROUP

APHEBIAN AND EARLIER(?)

- 17 AUWR, (GRNL) Granulite, pyroxene gneiss, charnockite; minor granitic gneiss ...
- 16 AUWP, (PRGS) Paragneisses; includes biotite-quartz-feldspar gneiss, garnet-biotite-quartz-feldspar gneiss ...

NAIN PROVINCE

PALEOHELIKIAN

- 15 PHLE, UPHE Intermediate to acidic volcanics (mainly prophyritic flows), feldspathic quartzite ...

APHEBIAN

- 14 APE3 Conglomerate, quartzite, slate, silliceous dolomite, chert and arkose of MIDDLE CROTEAU GROUP
- 13 APE2, VAE2 Felspathic quartzite, conglomerate, argillite, basic volcanic rocks, and metamorphic equivalents of AILIK GROUP
- 12 APE1, VAE1, (SLTE) Slate, argillite, siltstone, quartzite, greywacke, dolomite and basalt of LOWER CROTEAU GROUP

ARCHEAN

- 11 AREV, (SCST) Mafic schistose rocks, greenstone, metasedimentary rocks, amphibolite, minor ultra-basic intrusions
- 10 AREG Granitic and granodioritic gneiss, migmatite, granulite, amphibolite ...

INTRUSIVE ROCKS

HELIKIAN
NEOHELIKIAN

- 9 NH17 Diabasic olivine gabbro, intermediate and ultramafic intrusive rocks ...

NEOHELIKIAN AND EARLIER(?)

- 8 NH16 Gabbro, norite, and diabase sills
- 7 NH15 Granite to granodiorite, massive to poorly foliated, porphyritic in part ...

PALEOHELIKIAN

- 6 PH14, (GRNT) Granite, quartz monzonite, granodiorite, quartz diorite, syenite ...
- 5 PH13, (QZMZ) Adamillite suite: adamellite, monzonite, syenite, granodiorite, granite ...
- 4 PH11, (ANRS) Anorthosite suite: anorthosite, anorthositic gabbro, leucotroctolite ...
- 3 PH10, (UMFC) Gabbro, norite, anorthositic gabbro, troctalite, diorite ...

APHEBIAN

- 2 APH7, (GRNT) Granite, quartz monzonite, granodiorite, quartz diorite ...
- 1 APH5 Well foliated foldspar-quartz-hornblende-biotite granitic gneiss ...

* A four letter mnemonic name recorded as rock type as part of 1982 and 1983 field observations

** A four letter mnemonic name recorded as rock types 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 these geochemical maps from Geology Map of Labrador, Mineral Resources Division, Department of Mines, Agriculture and Resources, Province of Newfoundland and Labrador

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CENTRAL AND SOUTHERN LABRADOR