

N = 982

Government of Newfoundland and Labrador  
Newfoundland Department of Mines and Energy  
Provincial Open File 13D (24)

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.

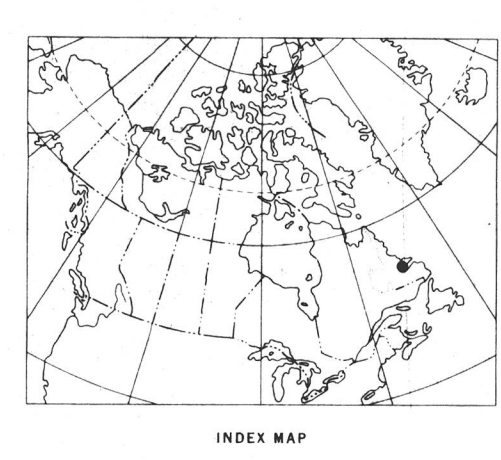
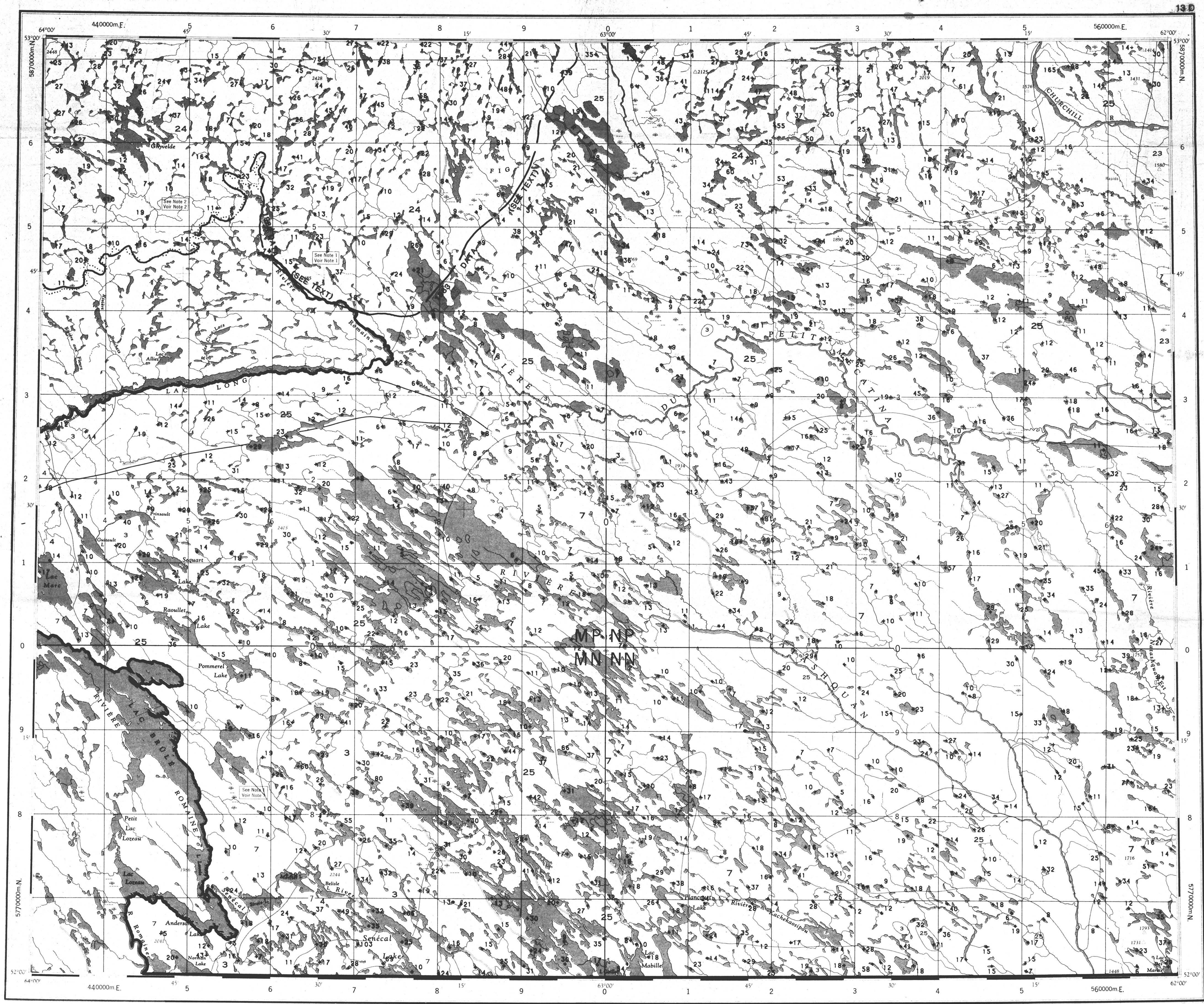
This map forms one of a series of maps released by the Geological Survey of Canada, Open Files 995 to 998. These Open File consists of maps of various geochemical variables: 16 for lake sediment, 3 for lake water and 1 sample site location

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

The Director  
Computer Science Center  
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Ottawa, Ontario  
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Elevation in feet above mean sea level

Mean magnetic declination 1984, 27°08.3' West,  
decreasing 11.5' annually. Readings vary  
from 27°00.6' in the SE corner to 27°17.0' in  
the NW corner of the map-area

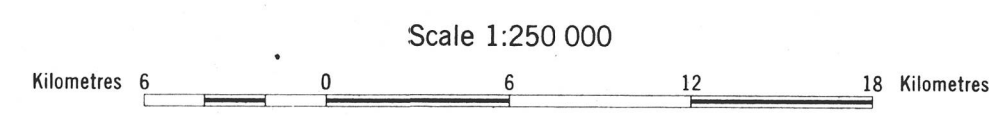
COPPER (ppm)

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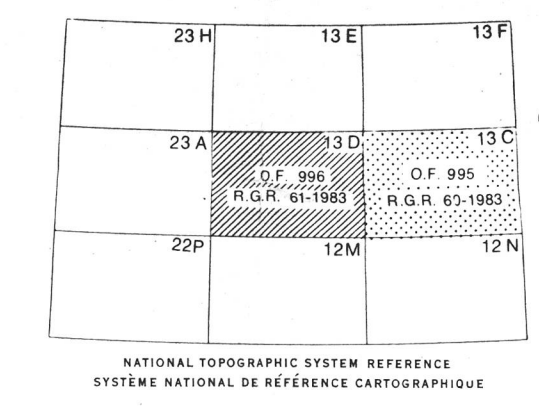
REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 61-1983

CANADA - NEWFOUNDLAND  
CO-OPERATIVE MINERAL PROGRAM 1982-84  
LAKE SEDIMENT AND WATER GEOCHEMICAL SURVEY  
CENTRAL AND SOUTHERN LABRADOR, 1983

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



Scale 1:250 000  
Universal Transverse Mercator Projection  
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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
- HADRYANIAN
- 28 HODF\* 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 NHMS, VNHM, NHMK, (SMRK)\*\* Quartzite, conglomerate, arkose, shale ... NHMS - unseparated BESSIE LAKE ... FORMATION; NHMK - SHIPISKAN FORMATION (possibly younger)
- PALEOHELIKIAN
- 19 UPHW Quartzite, grit conglomerate, acidic volcanics ... LETITIA GROUP
  - 18 PHAW, PAMP Greywacke, quartzite, arkose, slate, ...: PAMP - PETSCHAPISKAN GROUP
- APHEBIAN AND EARLIER(?)
- 17 AUMR, (GRNL) Granulite, pyroxene gneiss, charnockite; minor granitic gneiss ...
  - 16 AUMP, (PRGS) Paragneisses; includes biotite-quartz-feldspar gneiss, garnet-biotite-quartz-feldspar gneiss ...
- MAIN PROVINCE
- PALEOHELIKIAN
- 15 PHLE, \*UPHE Intermediate to acidic volcanics (mainly prophyritic flows), feldspathic quartzite ...
- APHEBIAN
- 14 APE3 Conglomerate, quartzite, slate, siliceous dolomite, chert and arkose of MIDDLE GROTEAU 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 GROTEAU 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, (QZM2) Adamillite suite: adamellite, monzonite, syenite, granodiorite, granite ...
  - 4 PH11, (ANRS) Anorthosite suite: anorthosite, anorthositic gabbro, leucotroctolite ...
  - 3 PH10, (UMFC) Gabbro, norite, anorthositic gabbro, troctolite, diorite ...
- APHEBIAN
- 2 APH7, (GRNT) Granite, quartz monzonite, granodiorite, quartz diorite ...
  - 1 APH5 Well foliated feldspar-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 .....

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COPPER (ppm)  
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CENTRAL AND SOUTHERN LABRADOR