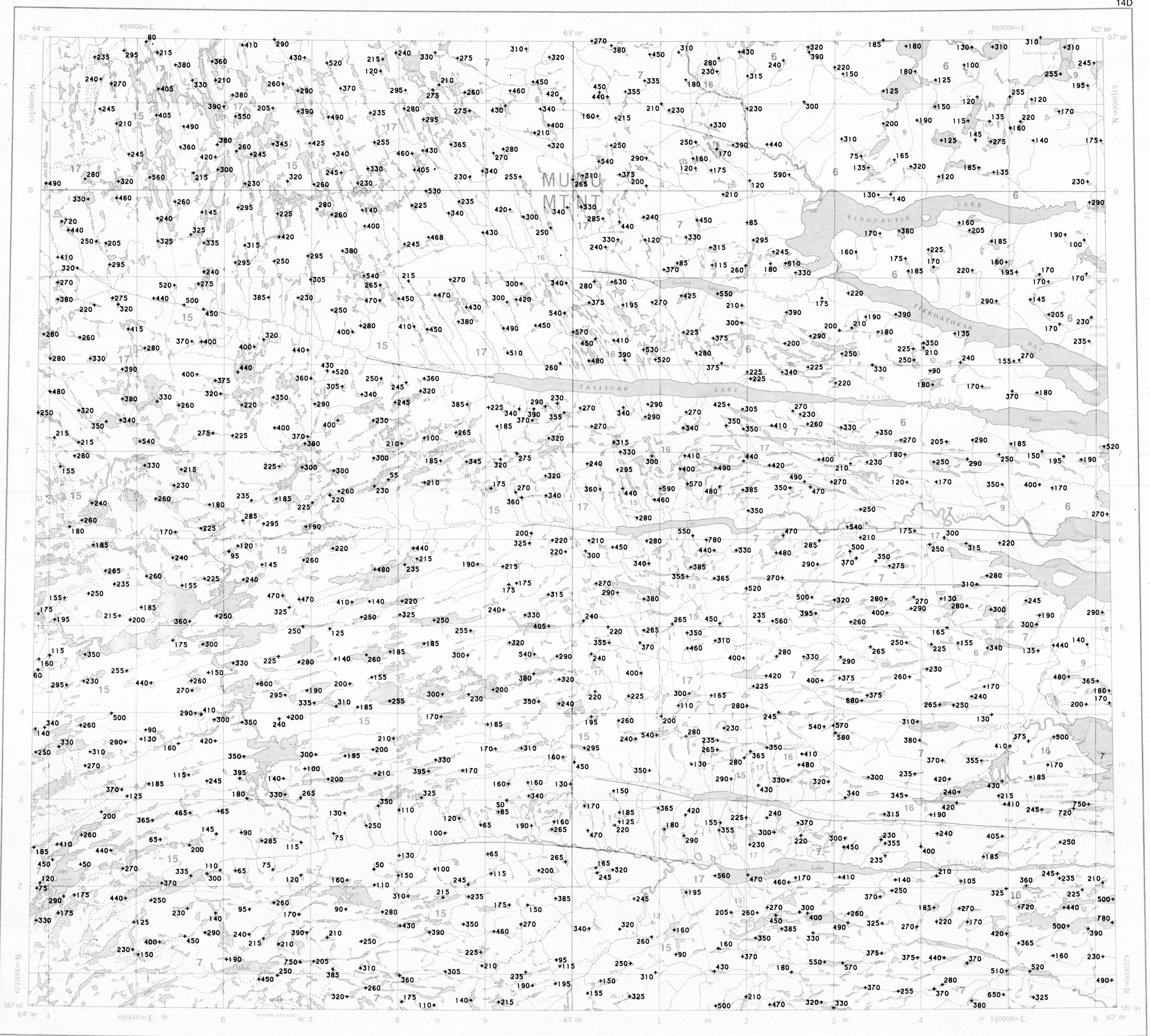
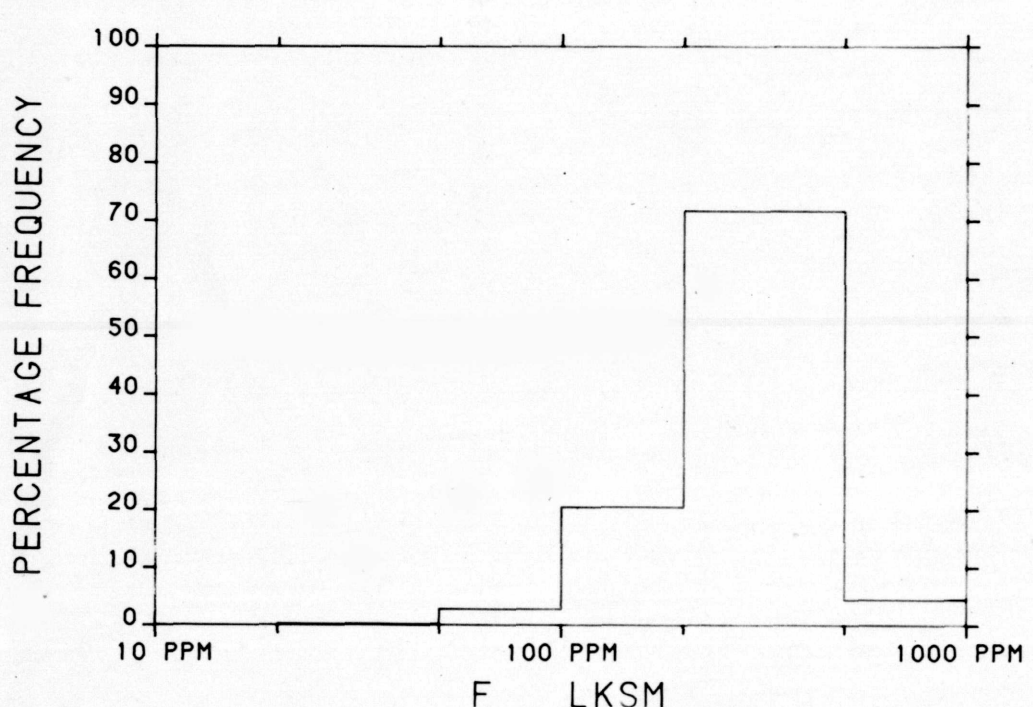
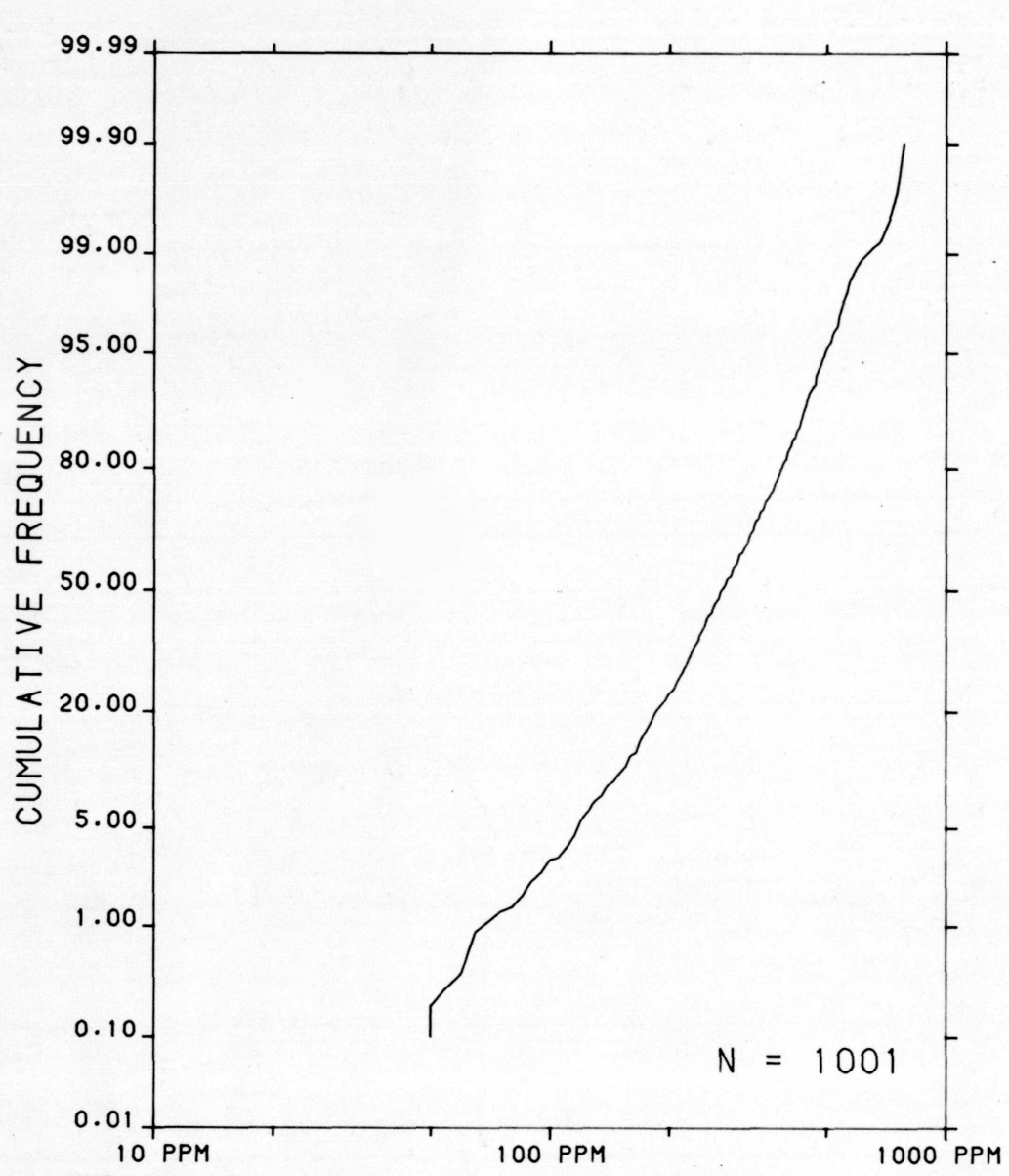


Note: This legend is common for National Geochemical Reconnaissance Map 37-1978, Open File 557; Map 38-1978, Open File 558; Map 39-1978, Open File 559; Map 40-1978, Open File 560.



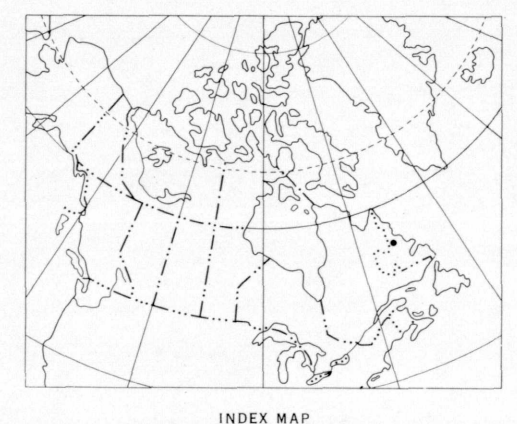
- SEDIMENTARY, VOLCANIC AND METAMORPHIC ROCKS
- TRIASSIC
- 26 (VCRK) Andesitic volcanics and shallow intrusives of the Mistatin Formation
- HADROYOAN AND/OR NEOHELIXIAN
- 25 (ARKS) Red conglomerate, arkose and siltstone
- GRENVILLE PROVINCE
- APHEBIAN AND EARLIER (?)
- 24 (GRNS) Metasedimentary granitoid gneisses, minor amphibolite, sillimanite gneiss, metaquartzite, marble
- SUPERIOR PROVINCE
- ARCHEAN
- 23 (PXGL) Pyroxene granulite, unseparated acidic intrusives
- CHURCHILL PROVINCE
- HELIXIAN
- NEOHELIXIAN
- 22 (SMRK) Quartzite, conglomerate, arkose, shale-Shipikan Formation
- PALEOHELIXIAN
- 21 (QRTZ) Quartzite, grit and conglomerate of Sims Formation
- APHEBIAN
- 20 (BSLT) Basaltic flows and pyroclastics, quartzite, greywacke, slate, argillites, conglomerate, minor iron formation
  - 19 (SMRK) Grit, arkose, conglomerate, quartzite, greywacke, slate, acidic to basic volcanics, dolomite, limestone, chert breccia
  - 18 (SLTE) Ferruginous slate and iron formation
- APHEBIAN AND EARLIER (?)
- 17 (GRNL) Granulite, pyroxene gneiss, charnockite, minor granitic gneiss, mylonitic gneiss, amphibolite, ultrabasic intrusives
  - 16 (GRNS) Garnet-quartz-feldspar gneiss, chiefly mylonitized, locally graphitic
  - 15 (GRNG) Granitic gneiss, granodioritic gneiss, migmatite, agmatite, amphibolite
  - 14 (PRGS) Paragneiss; includes biotite-quartz-feldspar gneiss, garnet-biotite-quartz-feldspar gneiss, hornblende-gneiss, augen and graphitic gneiss
  - 13 (AMPS) Amphibolite, pyroxene amphibolite, chlorite schist, garnet- and biotite-rich gneisses
  - 12 (MSDM) Metasedimentary rocks, mainly quartzite and marble
- NAIN PROVINCE
- APHEBIAN
- 11 (SLTE) Slate, argillite, siltstone, quartzite, greywacke, dolomite and basalt of LOWER CROTEAU GROUP
- ARCHEAN
- 10 (SCST) Mafic schistose rocks, greenstone, metasedimentary rocks, amphibolite, minor ultrabasic intrusives
  - 9 (GRGD) Granitic and granodiorite gneiss, migmatite, granulite and amphibolite
- INTRUSIVE ROCKS
- HELIXIAN
- PALEOHELIXIAN
- 8 (GRNT) Granite, quartz monzonite, granodiorite, quartz diorite, syenite
  - 7 (QZMZ) Adamellite suite: adamellite, monzonite, syenite, granodiorite, granite and their hypersthene-bearing equivalents forssundite, mangerite, opalite and charnockite
  - 6 (ANRS) Anorthosite suite: anorthosite, anorthositic gabbro, leucotroctolite
  - 5 (UMFC) Gabbro, norite, anorthositic gabbro, troctolite, diorite, derived basic gneiss and amphibolite
- PALEOHELIXIAN AND EARLIER (?)
- 4 (GRDR) Granitic to granodiorite, massive to poorly foliated, with inclusions of granitic gneiss
  - 3 (GRNT) Granite, quartz monzonite, granodiorite, quartz diorite
  - 2 (GBBR) Gabbro, metagabbro, glomerophyritic gabbro and diorite
- ARCHEAN
- 1 (PXGD) Massive to poorly foliated pyroxene-bearing granodiorite and syenodiorite.
- \*A four letter mnemonic name recorded as rock type as part of field observations.
- Geological boundary.....
- Fault.....
- Mainly acidic volcanic rocks.....
- Mainly basic volcanic rocks.....
- No analytical result.....

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 Centre  
Department of Energy, Mines and Resources  
Ottawa, Ontario  
K1A 0E4

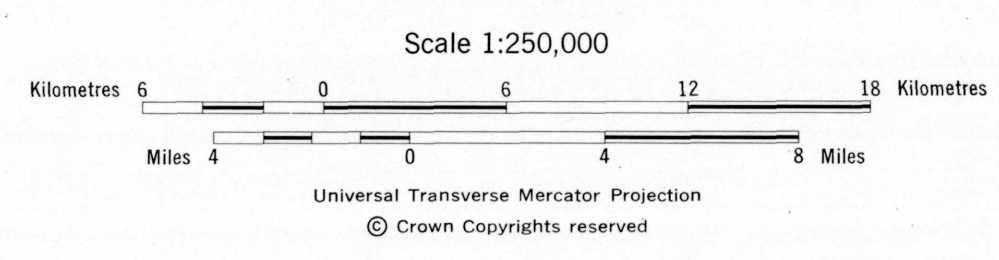


Elevation in feet above mean sea level

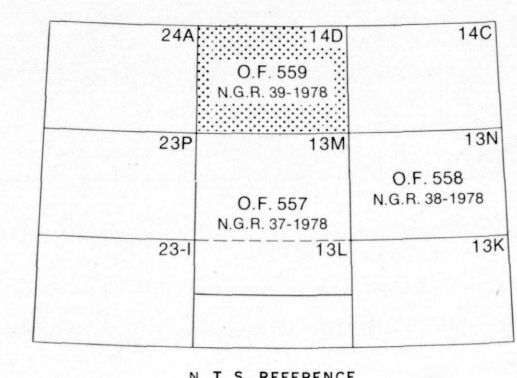
Mean magnetic declination 1978, 32°53.7' West, decreasing 10.2' annually. Readings vary from 32°28.8' in the SE corner to 33°21.6' in the NW corner of the map

FLUORINE (ppm)  
OPEN FILE 559  
NATIONAL GEOCHEMICAL RECONNAISSANCE MAP 39-1978  
URANIUM RECONNAISSANCE PROGRAM  
LAKE SEDIMENT AND WATER GEOCHEMICAL SURVEY  
CENTRAL LABRADOR 1978

Base-map at the same scale published by the Mapping and Charting Establishment, Department of National Defence, 1968



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

This map forms one of a series of 68 maps released by the Geological Survey of Canada, Open Files 557, 558, 559 and 560. Each Open File consists of maps for 12 elements for lake sediments, 2 elements for lake water, and 1 each for sample site location, sediment loss on ignition and water pH.