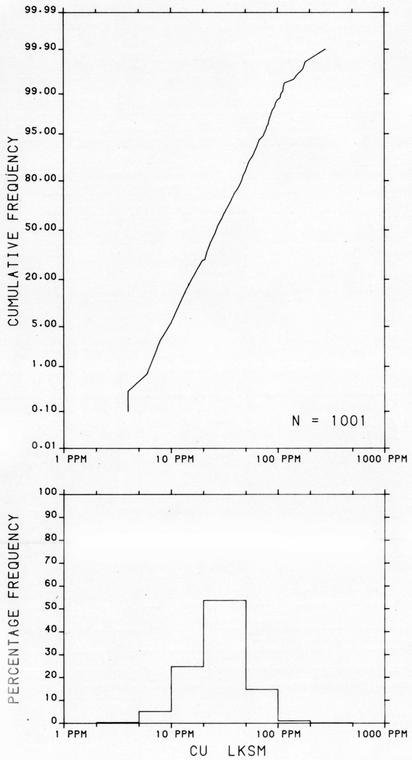
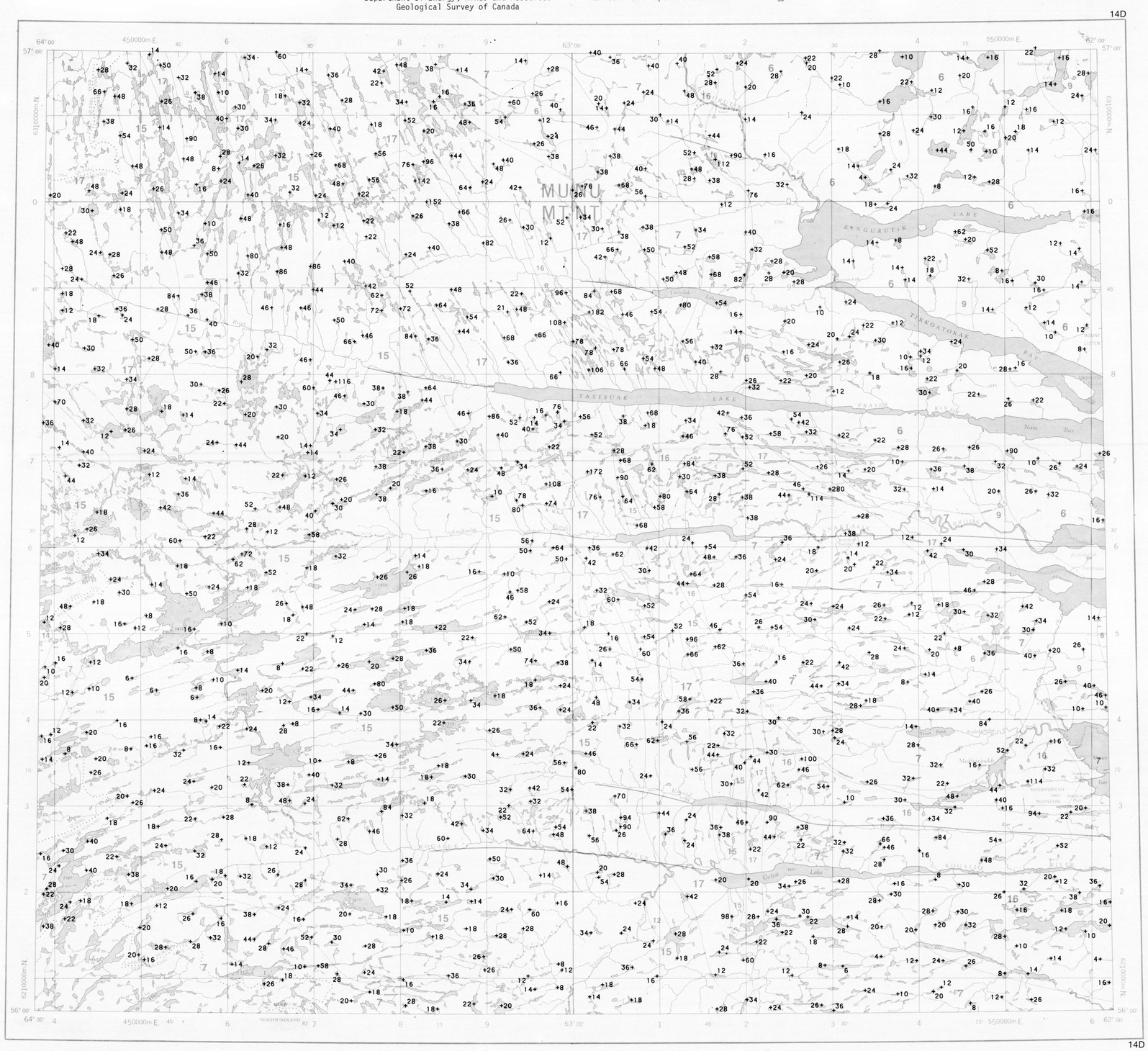
Canada
Department of Energy, Mines and Resources
Geological Survey of Canada

Province of Newfoundland
Newfoundland Department of Mines and Energy





14D

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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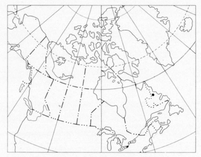
K1R 6K7

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



INDEX MAP

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

COPPER (ppm)

OPEN FILE 559

NATIONAL GEOCHEMICAL RECONNAISSANCE MAP 39-1978

URANIUM RECONNAISSANCE PROGRAM

LAKE SEDIMENT AND WATER GEOCHEMICAL SURVEY

CENTRAL LABRADOR 1978

Scale 1:250,000

Kilometres 6 0 6 12 18 Kilometres

Miles 4 0 4 8 Miles

Universal Transverse Mercator Projection

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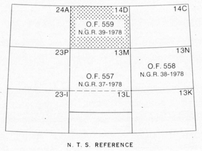
Base-map at the same scale published by the Mapping and Charting Establishment, Department of National Defence, 1968



N. T. S. REFERENCE

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COPPER (ppm)

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LEGEND

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 Mistastin Formation

HADRYDIAN AND/OR NEOHELIKIAN

25 (ARKS) Red conglomerate, arkose and siltstone

GRENVILLE PROVINCE

APHEBIAN AND EARLIER (?)

24 (GRNG) Metasedimentary granitoid gneisses, minor amphibolite, sillimanite gneiss, metaquartzite, marble

SUPERIOR PROVINCE

ARCHEAN

23 (PXGL) Pyroxene granulite, unseparated acidic intrusives

CHURCHILL PROVINCE

HELIKIAN

NEOHELIKIAN

22 (SMRK) Quartzite, conglomerate, arkose, shale-Shipiskan Formation

PALEOHELIKIAN

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 intrusions

16 (GRGS) Garnet-quartz-feldspar gneiss, chiefly mylonitized, locally graphitic

15 (GRNG) Granitic gneiss, granodioritic gneiss, migmatite, agnatite, amphibolite

14 (PRGS) Paragneiss; includes biotite-quartz-feldspar gneiss, garnet-biotite-quartz-feldspar gneiss, hornblende-gneiss, augen and graphitic gneiss

13 (AMPB) 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 intrusions

9 (GRDG) Granitic and granodiorite gneiss, migmatite, granulite and amphibolite

INTRUSIVE ROCKS

HELIKIAN

PALEOHELIKIAN

8 (GRNT) Granite, quartz monzonite, granodiorite, quartz diorite, syenite

7 (QZMZ) Adamellite suite: adamellite, monzonite, syenite, granodiorite, granite and their hypersthene - bearing equivalents forsundite, mangerite, opdalite and charmockite

6 (ANRS) Anorthosite suite: anorthosite, anorthositic gabbro, leucotroctolite

5 (UMFC) Gabbro, norite, anorthositic gabbro, troctolite, diorite, derived basic gneiss and amphibolite

PALEOHELIKIAN 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

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 Divi

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.

COPPER (ppm)

OPEN FILE 559

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