

LEGEND

Note: This legend is common for Regional Geochemical Reconnaissance
Map 70-1984, Open File 1105

- [A*] Metadiorite, hornblende of possible Archean age
- [1] Amphibolite, volcanic derived with locally preserved pillows
- [2a] Biotite-feldspar-quartz-paragneiss + garnet + granite ± muscovite
- [2b] Biotite metatextite + garnet + granite (25-75% white granitic lit)
- [2c] Biotite metatextite + garnet + cordierite
- [3a] Light grey biotite (5-10%) quartz-feldspar-gneiss + magnetite + garnet with discontinuous diorite gneiss lenses
- [3b] Light grey to dark grey biotite (5-15%) quartz-feldspar-gneiss interlayered with thin layers of amphibolite and/or hornblende-biotite bearing layers
- [4] Calc-silicate rock
- [5] Amphibolite, metagabbro, locally agmatitic
- [6a] Metaconglomerate
- [6b] Thin interlayered amphibolite and hornblende biotite-bearing layers
- [6c] Arkosic gneiss
- [6d] Metavolcanic rocks
- [6e] Metagreywacke
- [7] Gneissic diorite and leucodiorite
- [7a] Biotite ± hornblende granodiorite gneiss with white granitic lit
- [7b] Gabbro
- [8] Grey, medium to coarse grained biotite (5%) + magnetite-tonalite to quartz monzonite
- [8a] Hybrid gneiss of grey biotite-quartz monzonite and gneissic diorite
- [9] Foliated quartz diorite + magnetite
- [10] Biotite (15-20%) - tonalite ± garnet
- [11a] Megacrystic biotite-granodiorite
- [11b] Megacrystic biotite-hornblende ± pyroxene-granodiorite
- [11c] Coarse grained leucocratic granodiorite
- [12] White leucocratic medium grained to pegmatitic monzogranite ± garnet
- [13] Coarse grained to megacrystic-pyroxene-hornblende-monzonite to monzogranite with olive-brown feldspar
- [13a] Anorthositic gabbro
- [13b] Hornblende-biotite-monzonite to quartz monzonite with variegated olive-brown and pink feldspar
- [14] Megacrystic-biotite-magnetite quartz monzonite
- [15] Biotite ± hornblende coarse grained to megacrystic pink granite to quartz monzonite
- [15a] Biotite-hornblende granite gneiss
- [15b] Leucocratic megacrystic pink granite
- [15c] Fine grained quartz monzonite
- [16] Magnetite-biotite-hornblende quartz monzonite
- [17] Granite pegmatite
- [18] Diabase

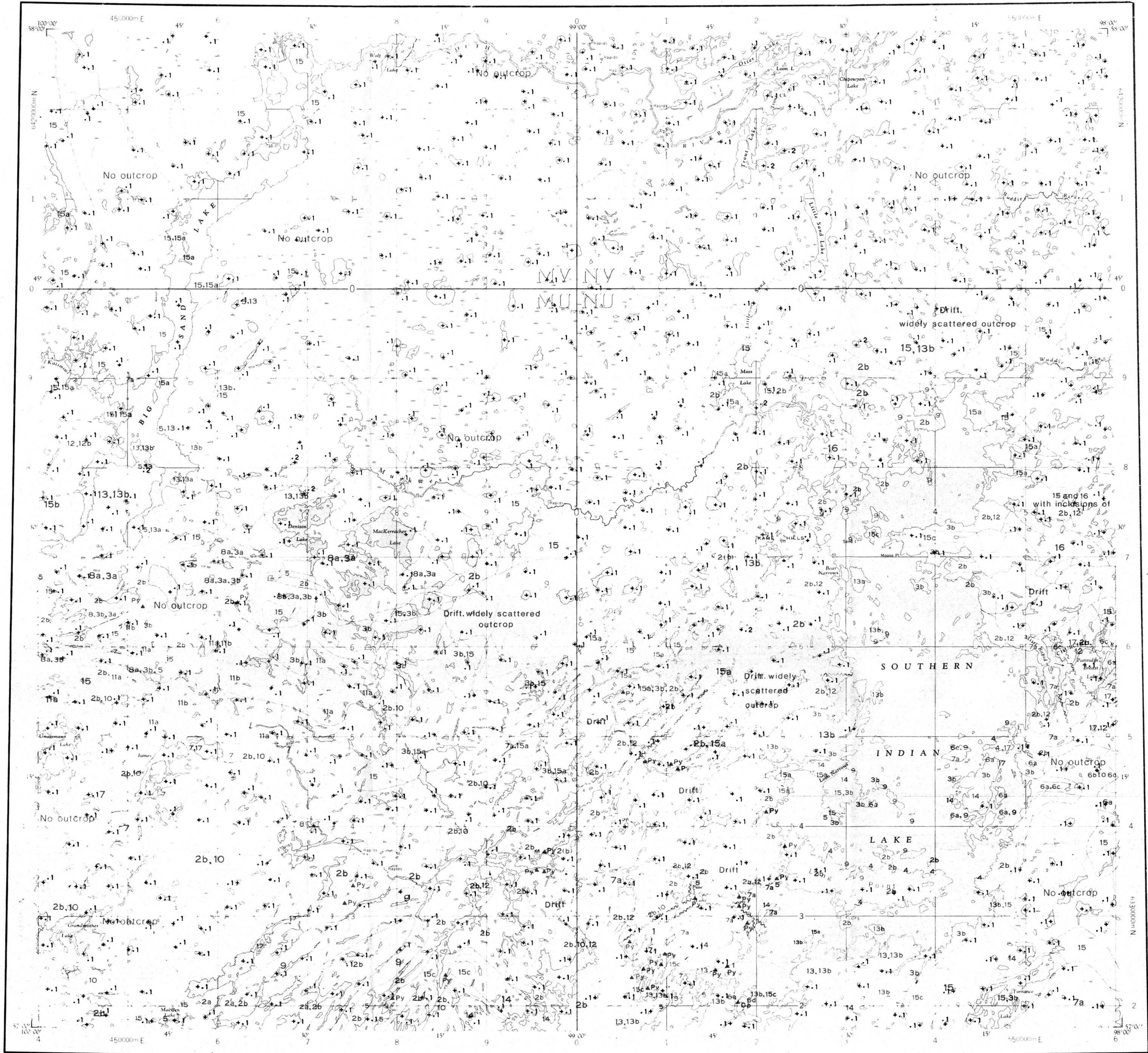
Pyrite, chalcopyrite, galena, sphalerite, Iron Formation ▲Py ▲Cp ▲Pb ▲Sp ▲IF
Geological boundary (approximate, assumed, gradational)
Drift covered

* A four character mnemonic name recorded rock type as part of the 1984 field observations

Provisional Compilation map by H.V. Zwanzig,
Manitoba Department of Energy and Mines

This map forms one of a series of maps released by the Geological Survey of Canada, Open File 1103 to 1105. Each Open File consists of maps of various geochemical variables: 16 for lake sediment, 3 for lake water and 1 sample site location

64 G



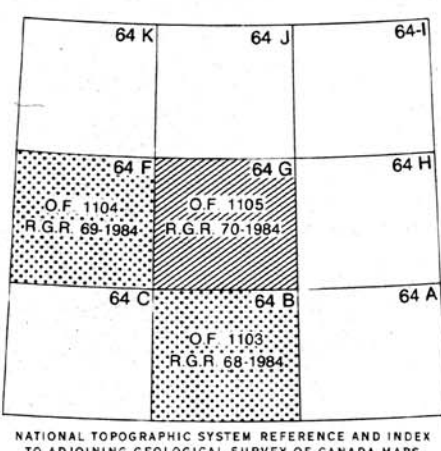
SILVER (ppm)

GSC OPEN FILE 1105
REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 70-1984
CANADA - MANITOBA
MINERAL DEVELOPMENT AGREEMENT (1984-89)
LAKE SEDIMENT AND WATER GEOCHEMICAL SURVEY
NORTH-WEST MANITOBA, 1984

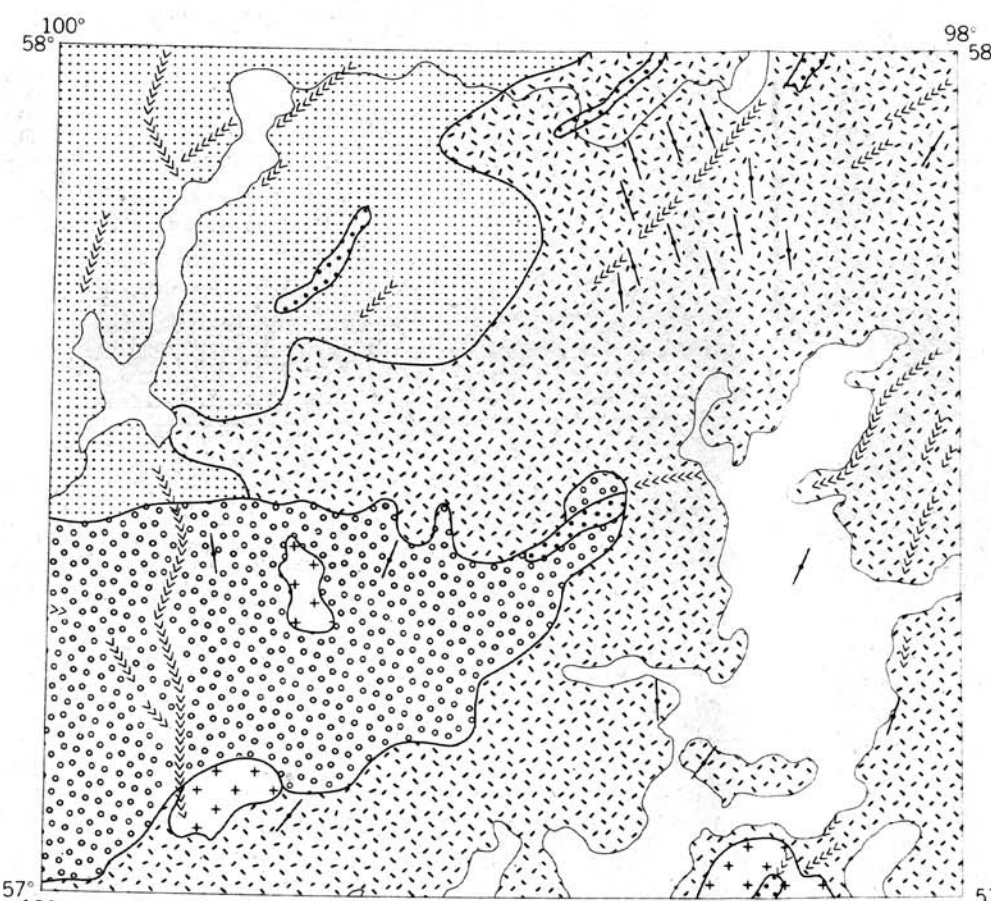
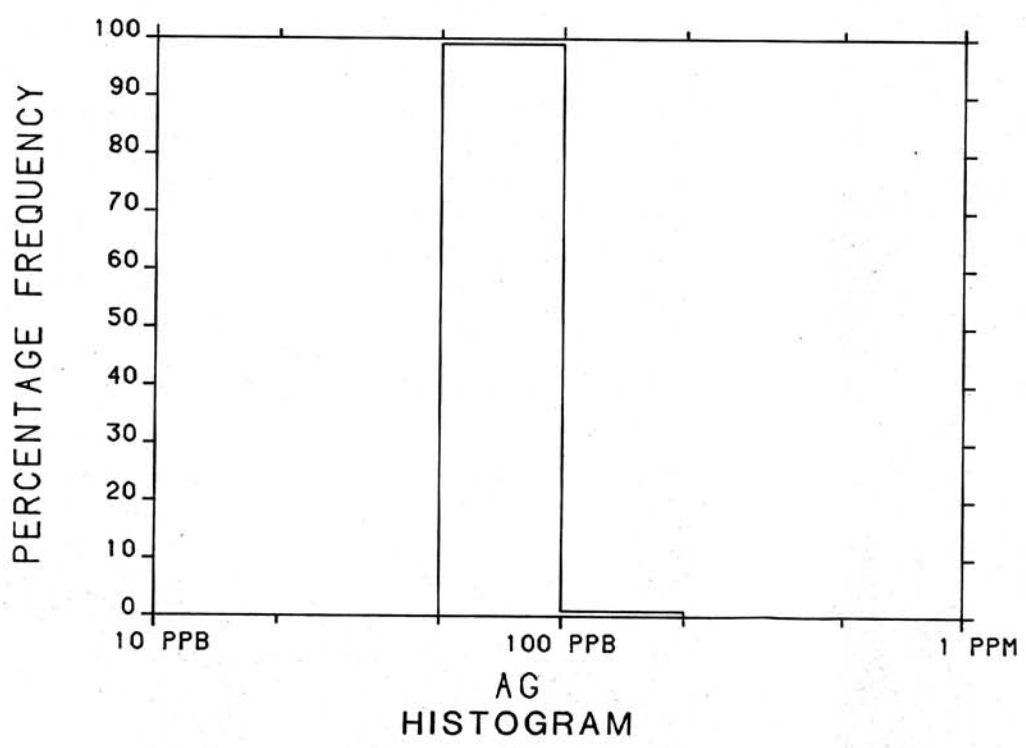
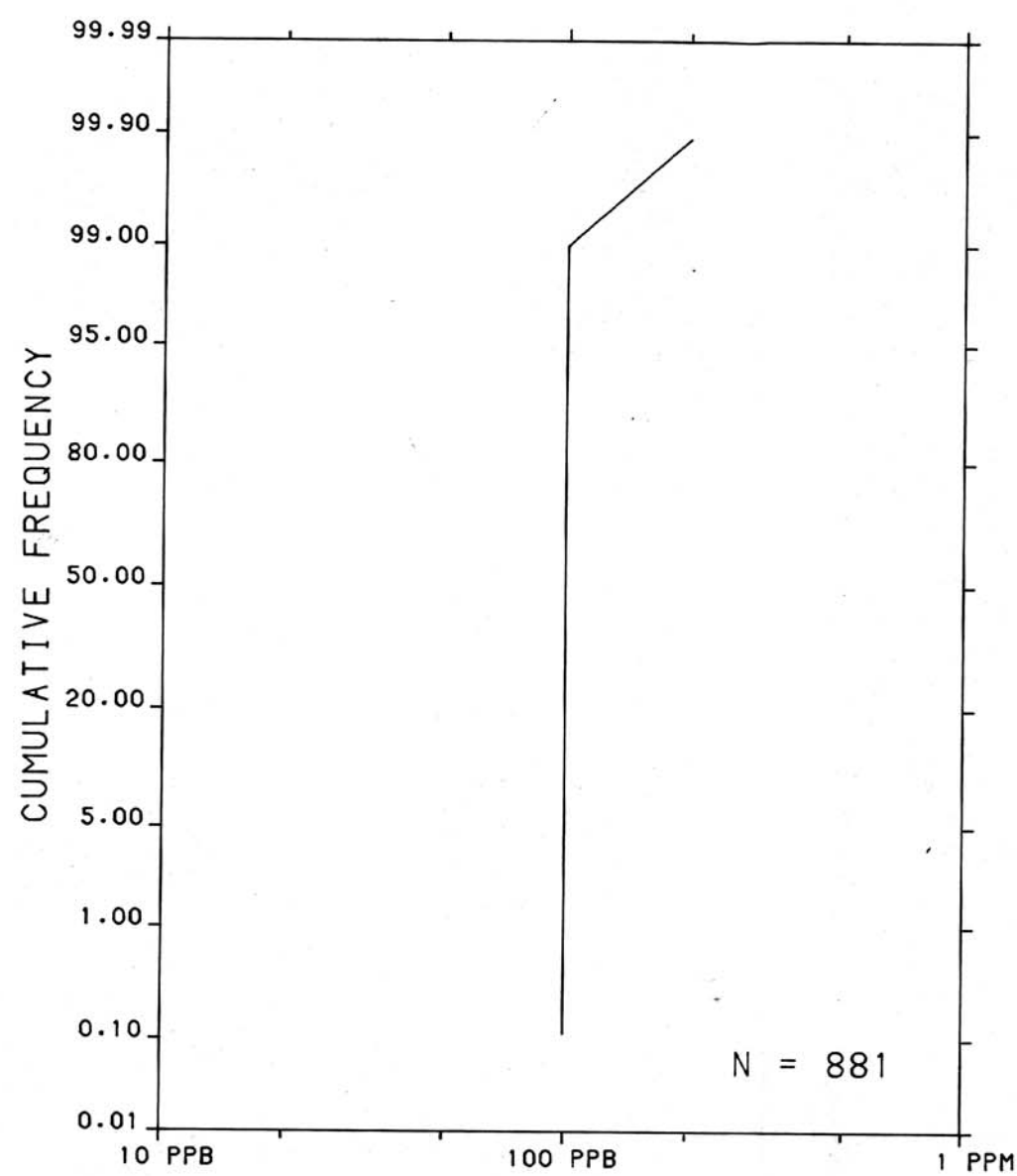
Base map at the same scale published by
the Surveys and Mapping Branch in 1963

Mean magnetic declination 1985, 9°06' East,
decreasing 23.1' annually. Readings vary from
7°35' in the NE corner to 10°28' in the SW
corner of the map area

Scale 1:250 000
Kilometres 5 10 15 20 Kilometres
Universal Transverse Mercator Projection
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SURFICIAL GEOLOGY

Kilometres 0 20 40
Scale 1:1 000 000

PROGLACIAL AND GLACIAL ENVIRONMENT

- [GLACIOLACUSTRINE DEPOSITS: beach and nearshore deposits:
sand and gravel 1-4 m thick, forming distinct ridges
- [GLACIOLACUSTRINE DEPOSITS: deep basin deposits:
silt, clay and sand, 1-30 m thick
- [GLACIOFLUVIAL DEPOSITS: gravel, sand and silt, 1-100 m thick

GLACIAL ENVIRONMENT

- [GLACIAL DEPOSITS: till: 1-5 m thick, derived primarily from
Precambrian bedrock

NONGLACIAL ENVIRONMENT

- [BEDROCK
- [ORGANIC DEPOSITS: marsh, fen, swamp and bog deposits up to
6 m thick, characterized by seasonal flooding

Striations
Flutings, drumlins, and drumlinoid ridges, oriented
parallel to ice flow direction
Esker (flow direction known or inferred)



Elevation in feet above mean sea level

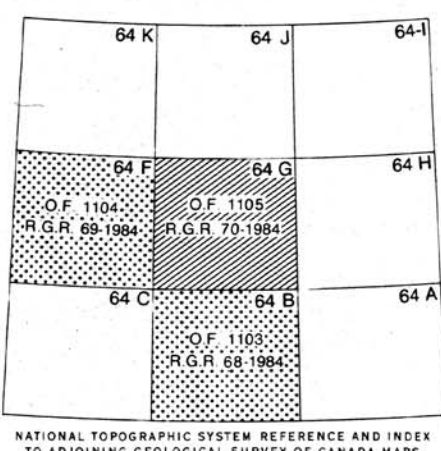
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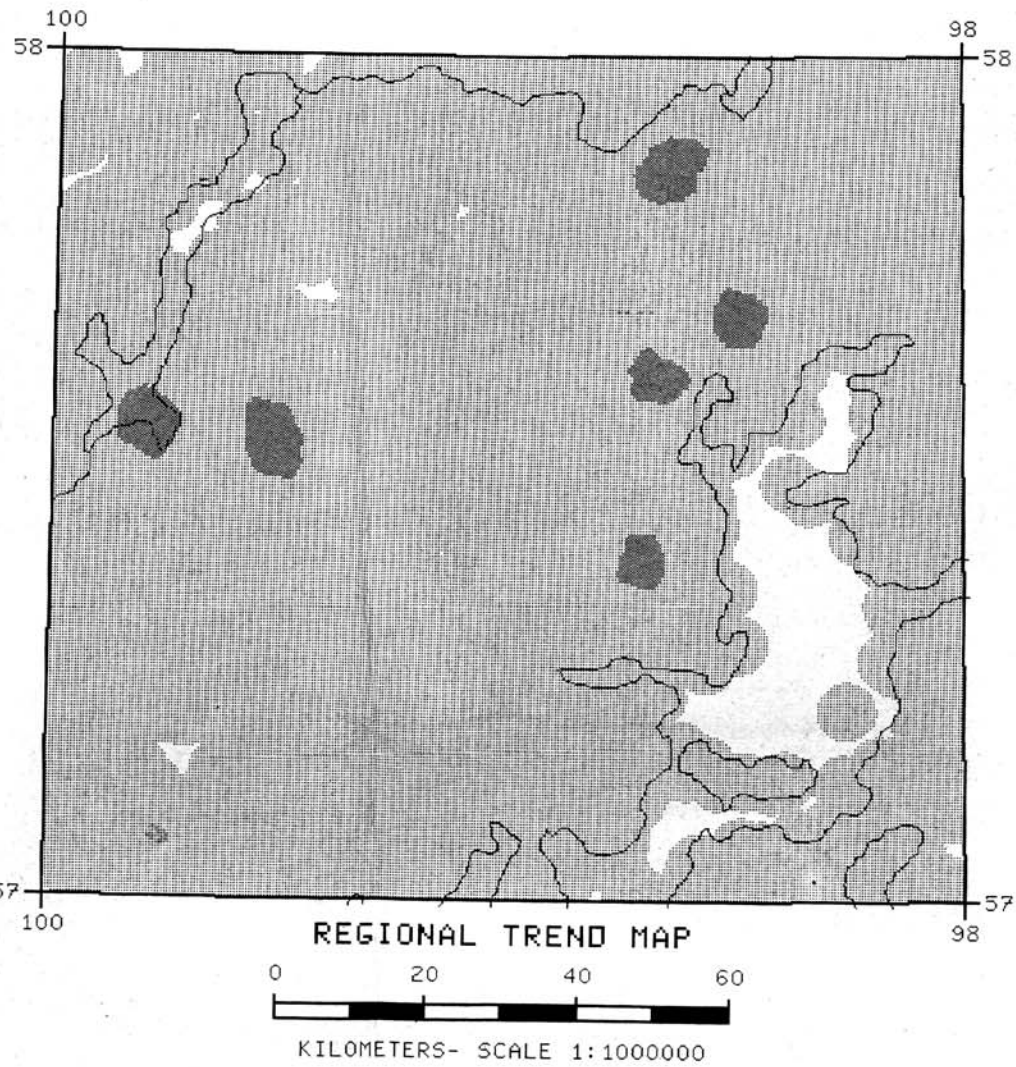
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AG

PPM XTILE
0.2 MAX
0.1 99
0.1 MIN
881 SAMPLES



Geological Survey of Canada
Resource Geophysics and Geochemistry Division
and
Manitoba Department of Energy and Mines
Mineral Resources Division

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Sample collection by Marshall Macklin Monaghan Ltd., Toronto
Sample preparation by Golder Associates, Ottawa

Sediment chemical analysis by Barringer Magenta Ltd., Rexdale, Ontario
Water chemical analyses by Barringer Magenta Laboratories (Alberta) Ltd., Calgary

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:

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The data are also available in digital form. For further information please
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