

## 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. Metacglomerate
- 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

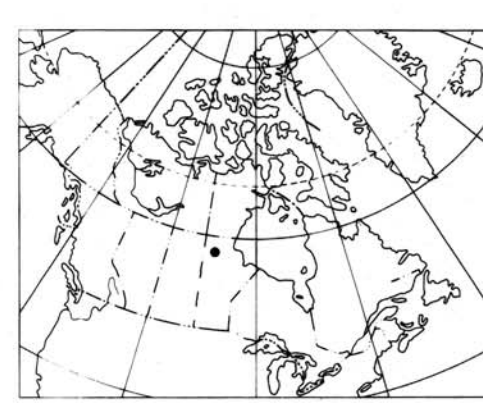
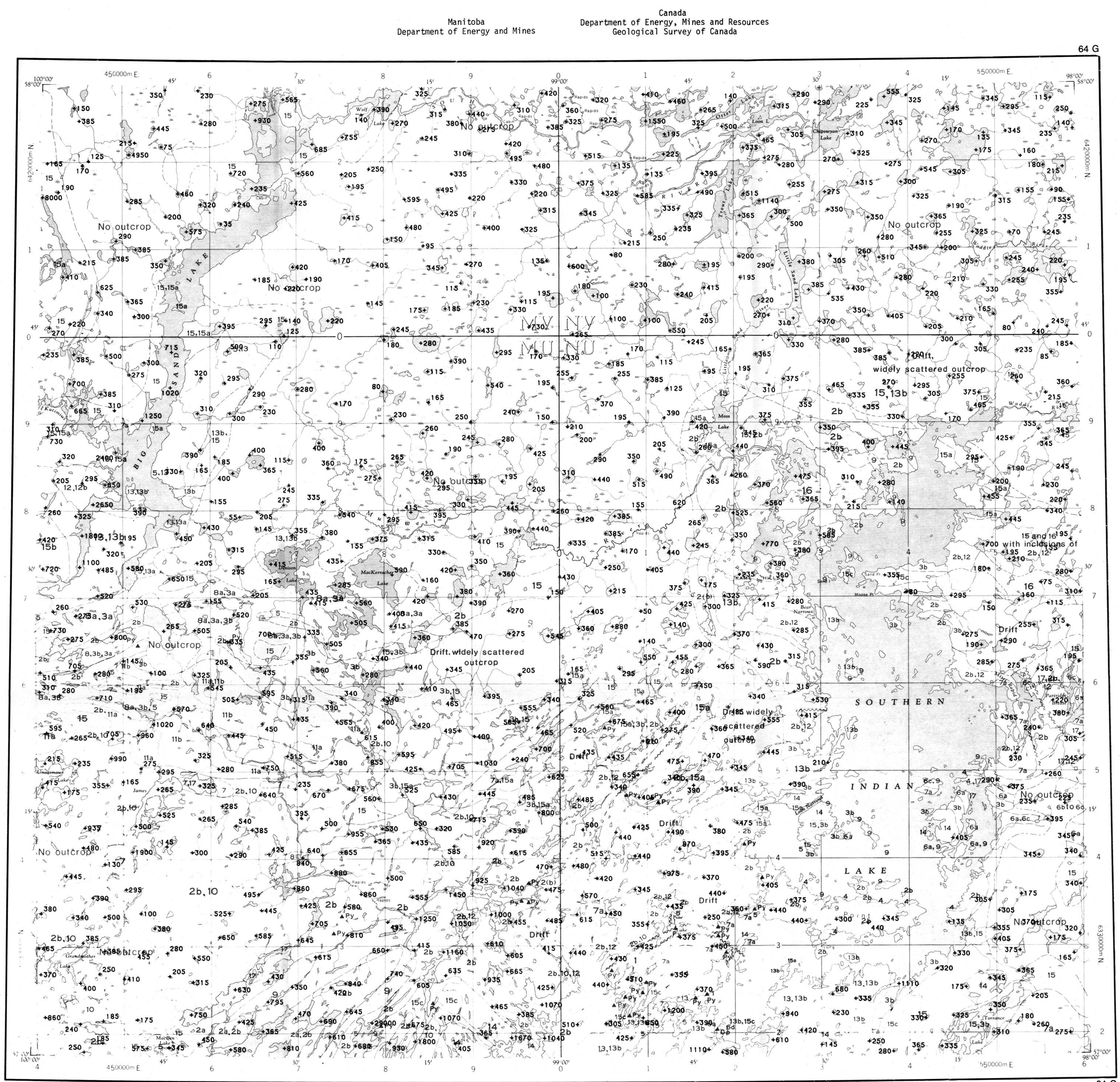
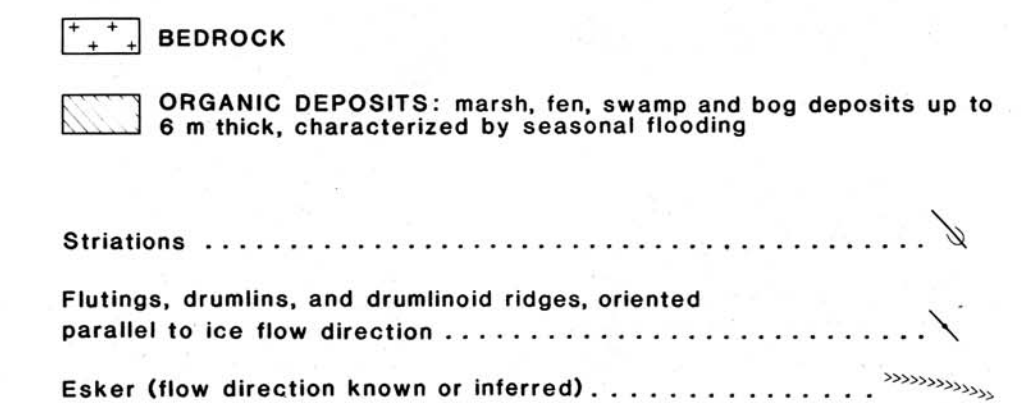
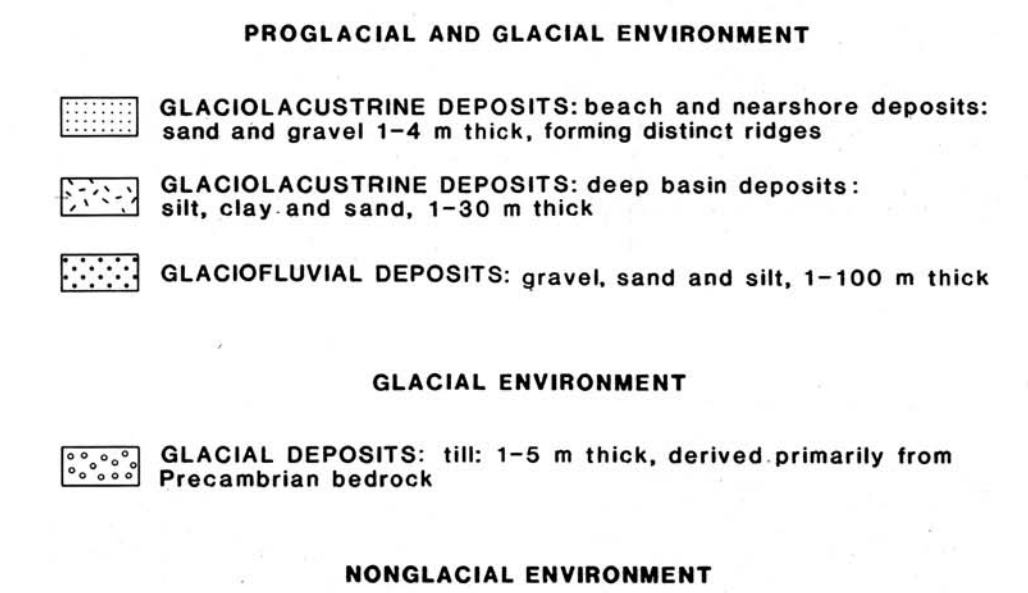
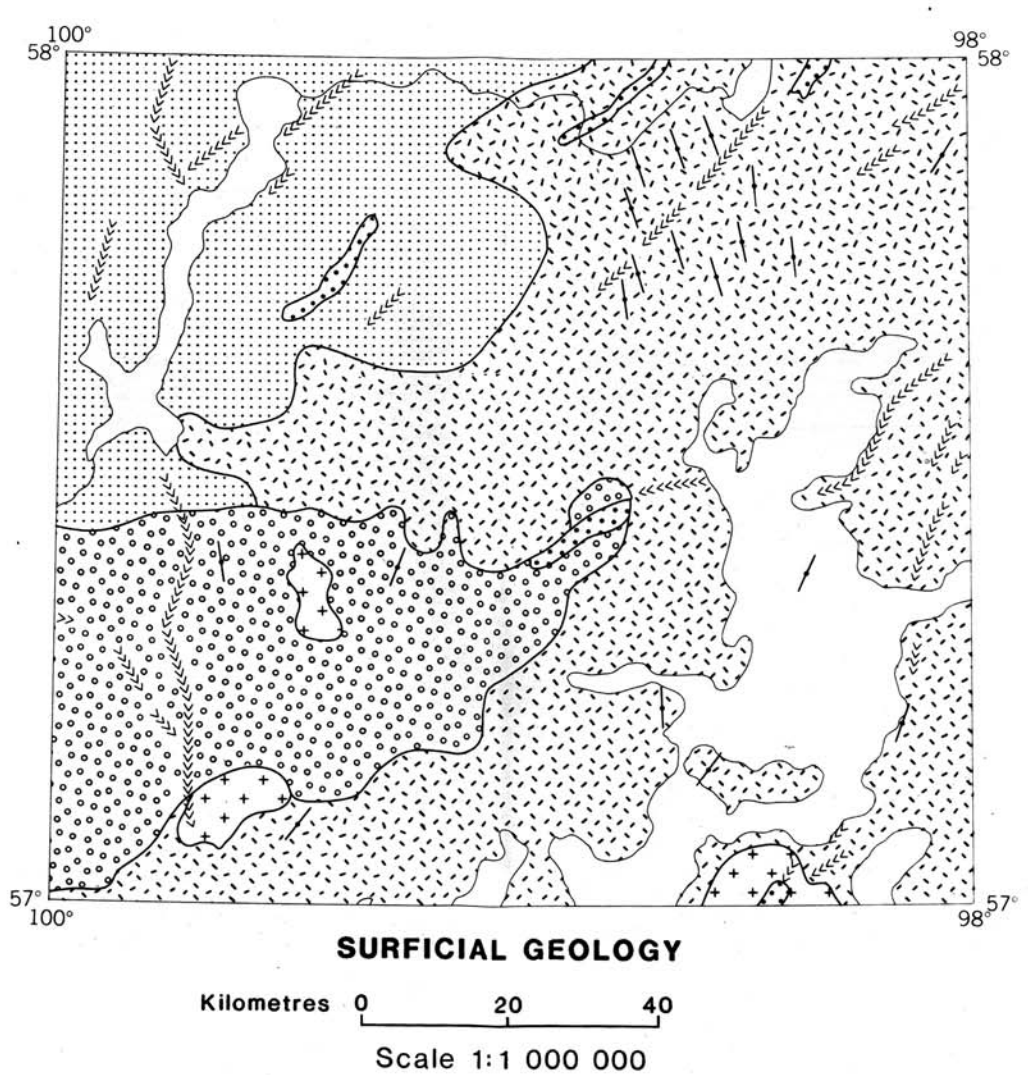
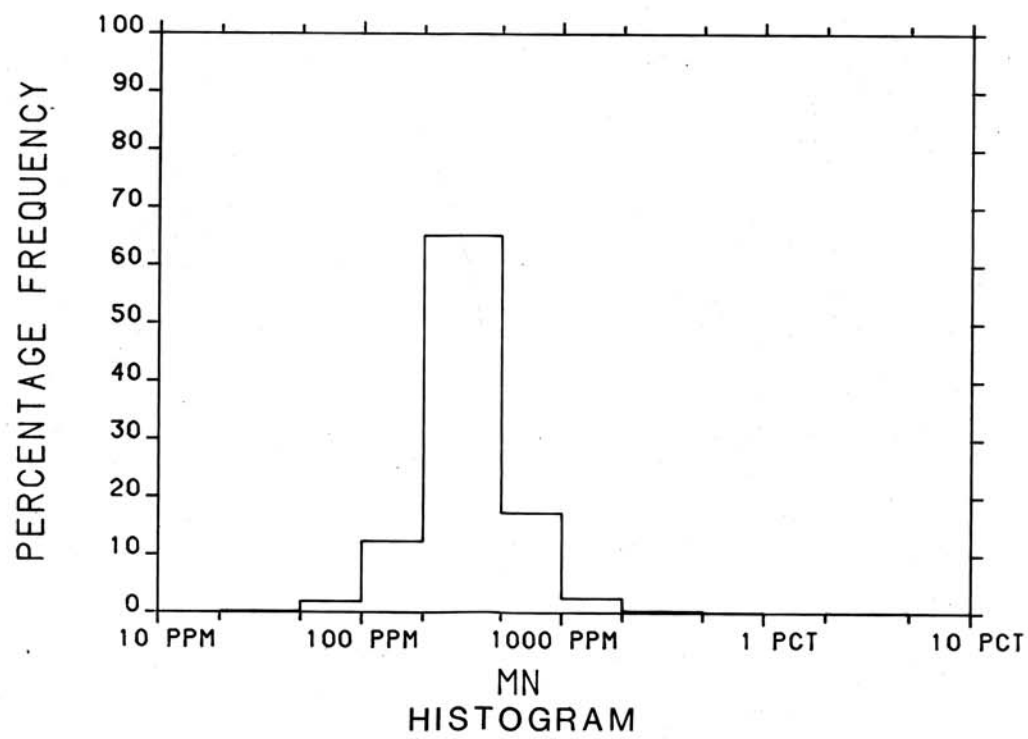
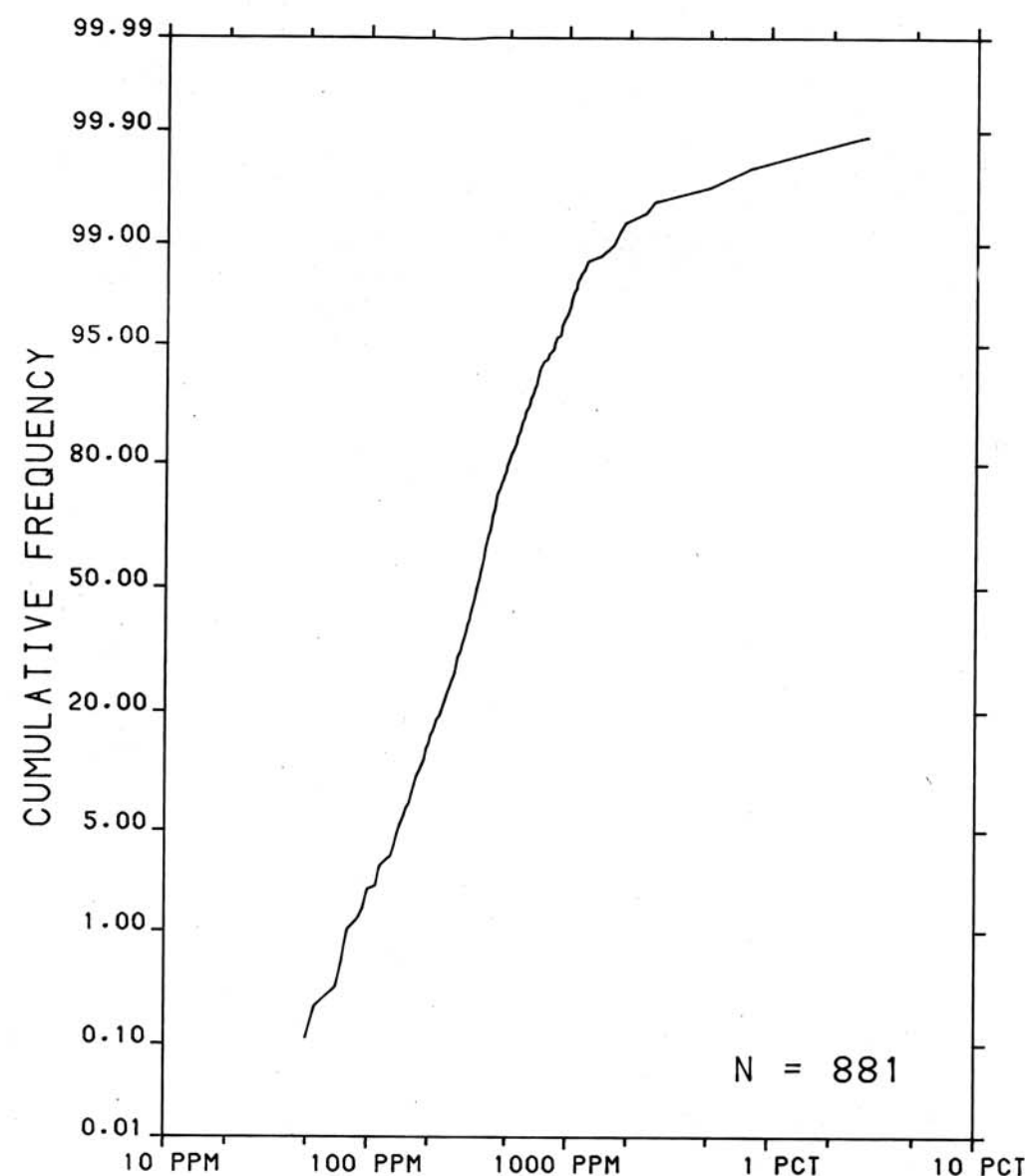
Pyrite, chalcopryite, galena, sphalerite,  
Iron Formation  
Geological boundary (approximate, assumed, gradational) .....  
Drift covered

\* 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

This map has been reprinted from a  
scanned version of the original map  
Reproduction par numérisation d'une  
cette version papier



Elevation in feet above mean sea level

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

## MANGANESE (ppm)

GSC OPEN FILE 1105

REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 70-1984

CANADA - MANITOBA

MINERAL DEVELOPMENT AGREEMENT (1984-89)

LAKE SEDIMENT AND WATER GEOCHEMICAL SURVEY

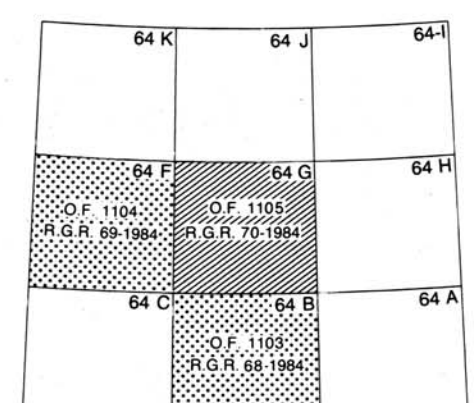
NORTH-WEST MANITOBA, 1984

Scale 1:250 000

Kilometres 0 5 10 15 20

Universal Transverse Mercator Projection  
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Base map at the same scale published by  
the Surveys and Mapping Branch in 1963



Kilometres 0 5 10 15 20

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The data are 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

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

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:

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

CONTRACTORS

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

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

Regional Trend Map  
Scale 1:100 000

Surficial Geology  
Scale 1:1 000 000

Regional Trend Map  
Scale 1:100 000

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