

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

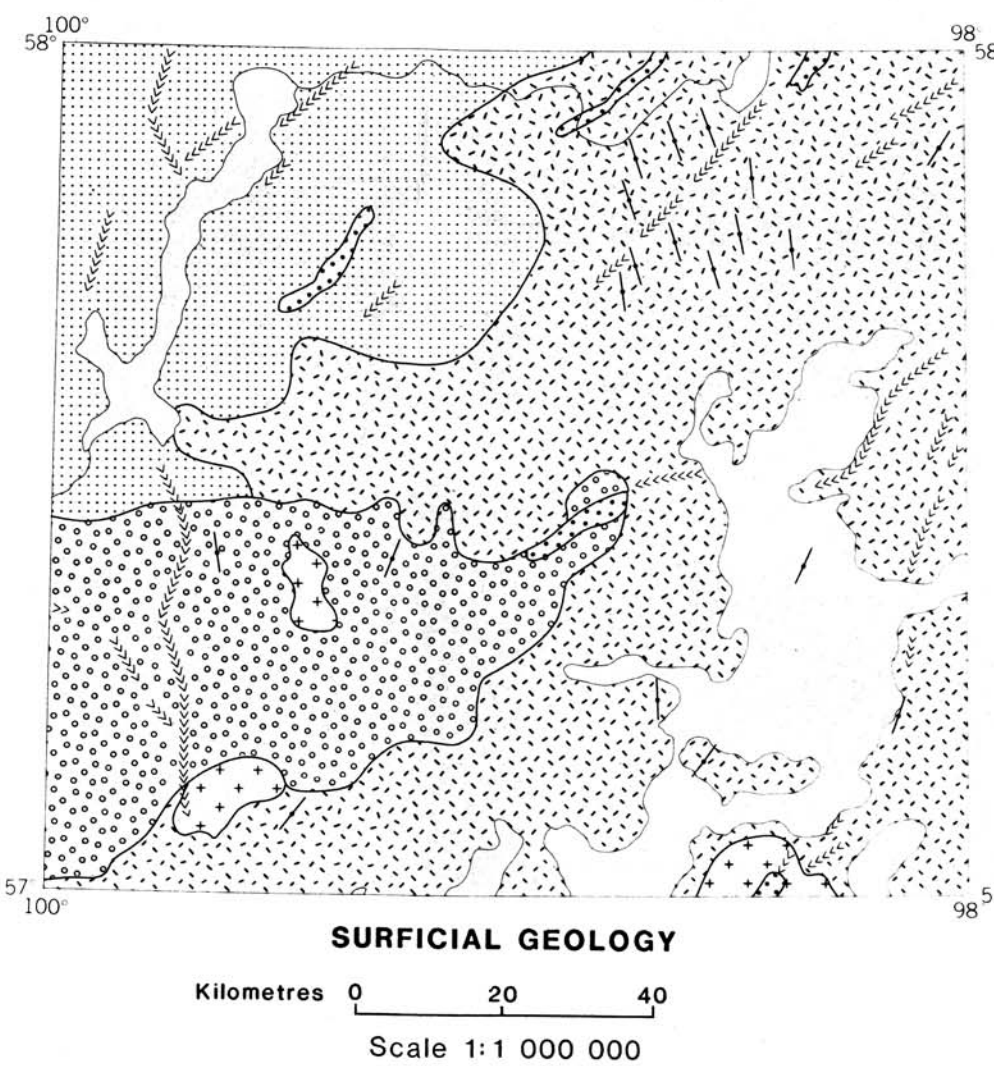
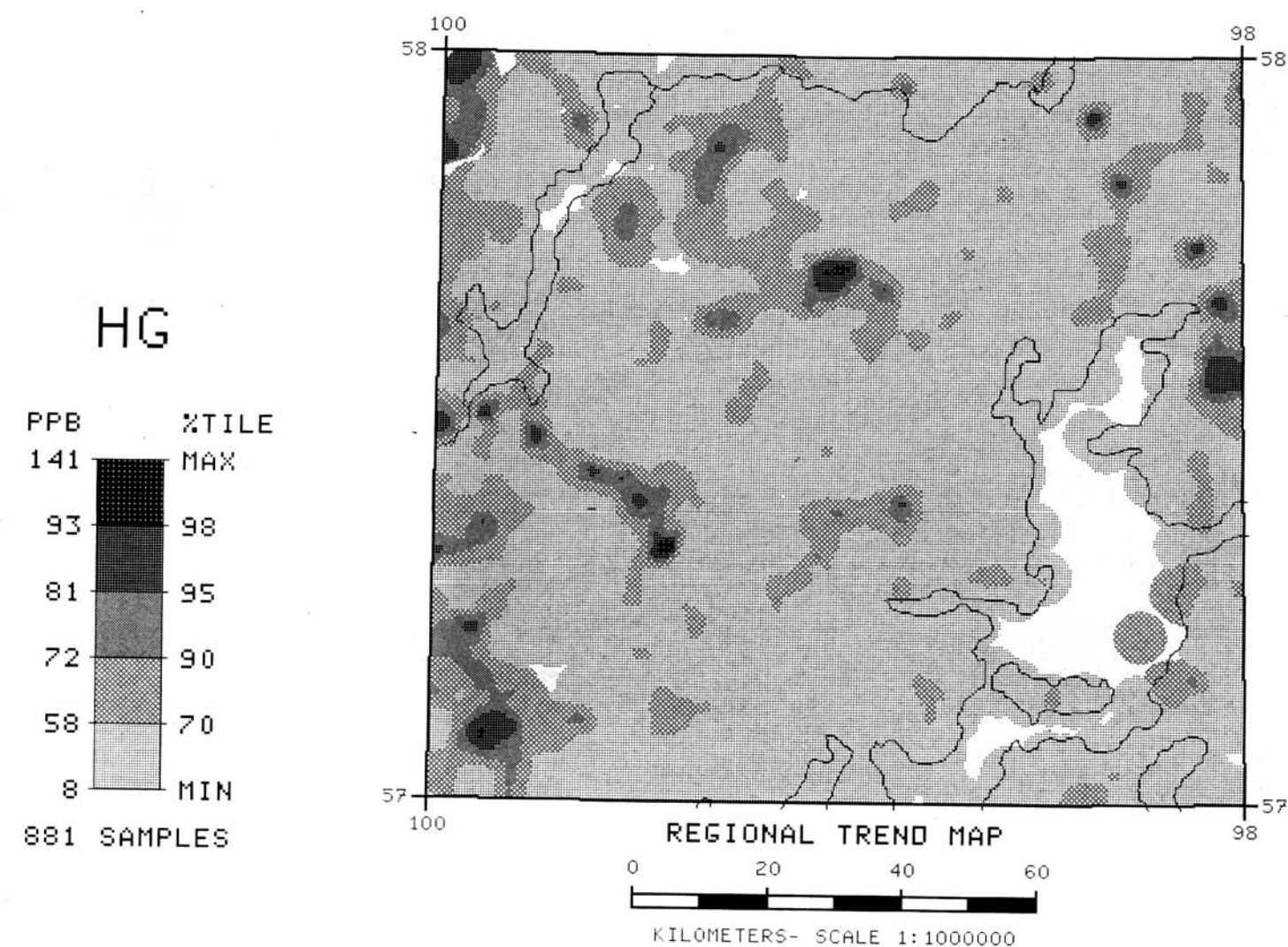
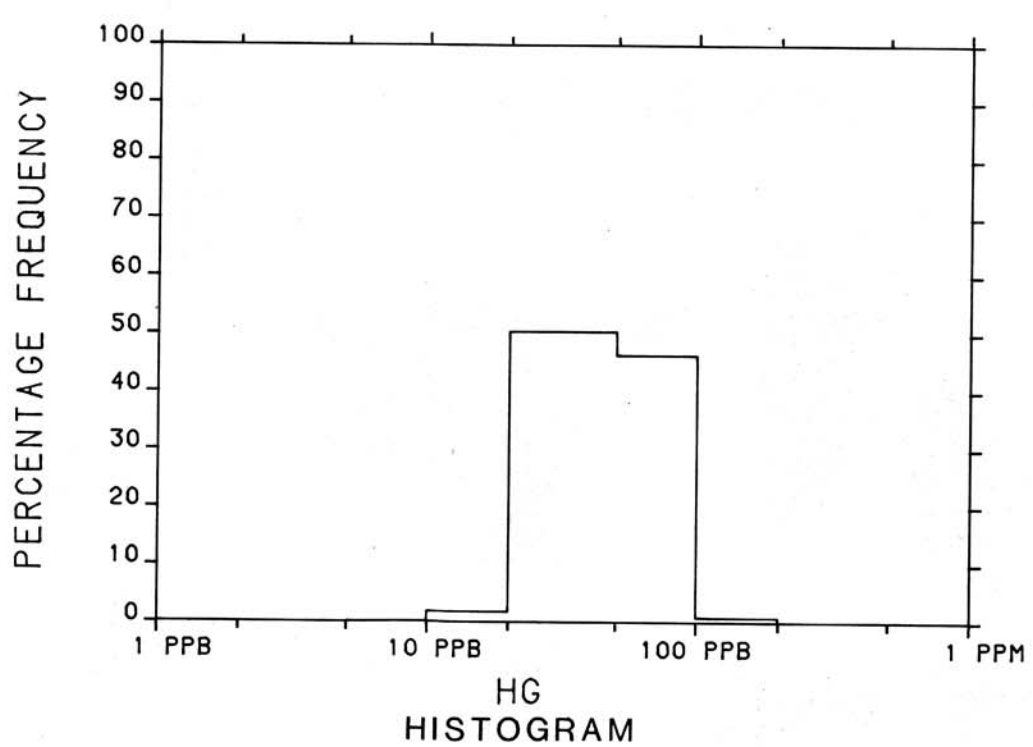
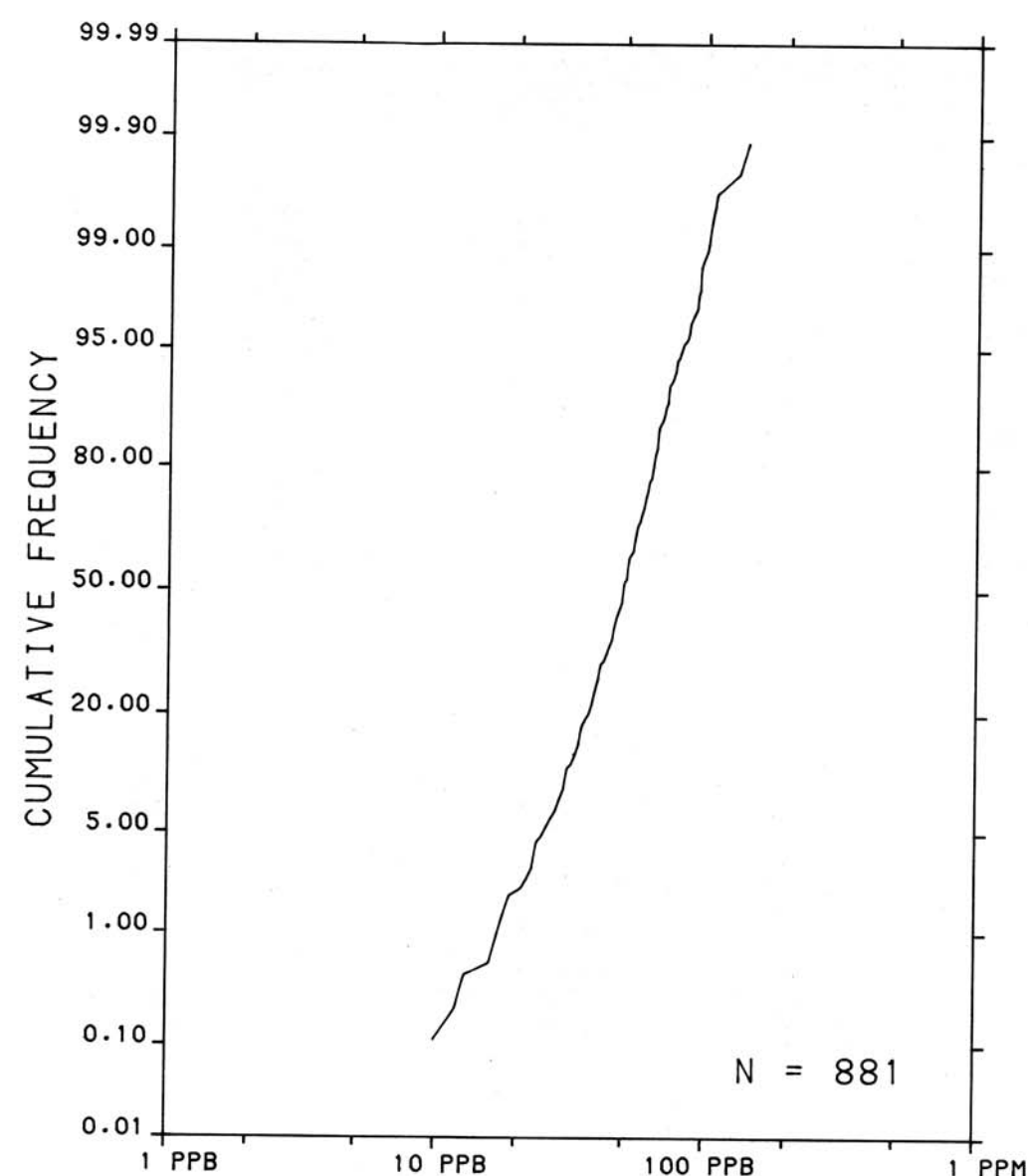
Pyrite, chalcopyrite, galena, sphalerite, Iron Formation APY ▲CP ▲DP ▲SP ▲IT
Geological boundary (approximate, assumed, gradational)
Drift covered

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

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

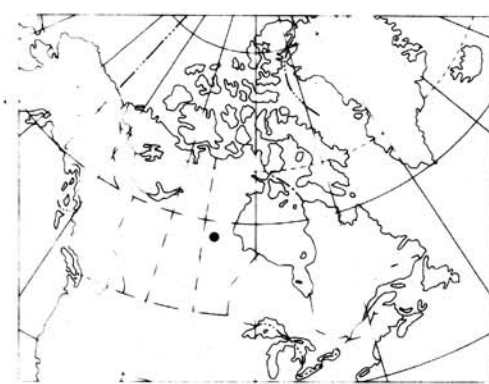
This map forms one of a series of maps released by the Geological Survey of Canada, Open File 1103 to 1105. Each Open File consists of maps of various geochemical variables: 16 for lake sediment, 3 for lake water and 1 sample site location

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- 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

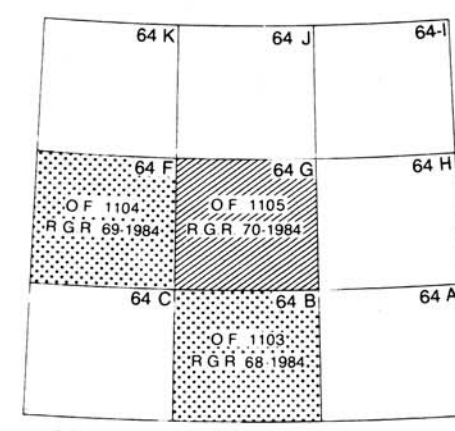
Mean magnetic declination 1985, 9°06' East, decreasing 23.1' annually. Readings vary from 7°35' in the NE corner to 10°28' in the SW corner of the map area

MERCURY(ppb)

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



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
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:

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

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