

LEGEND

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

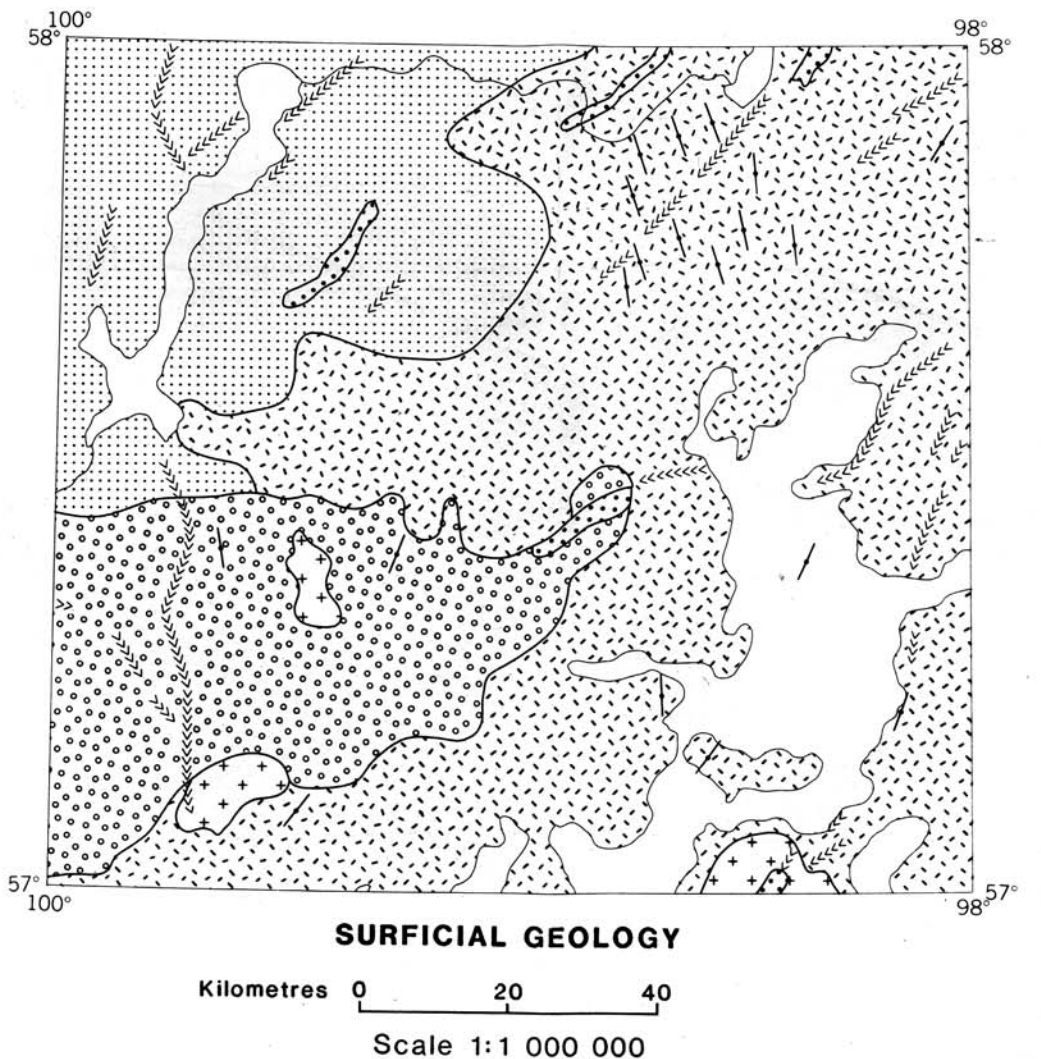
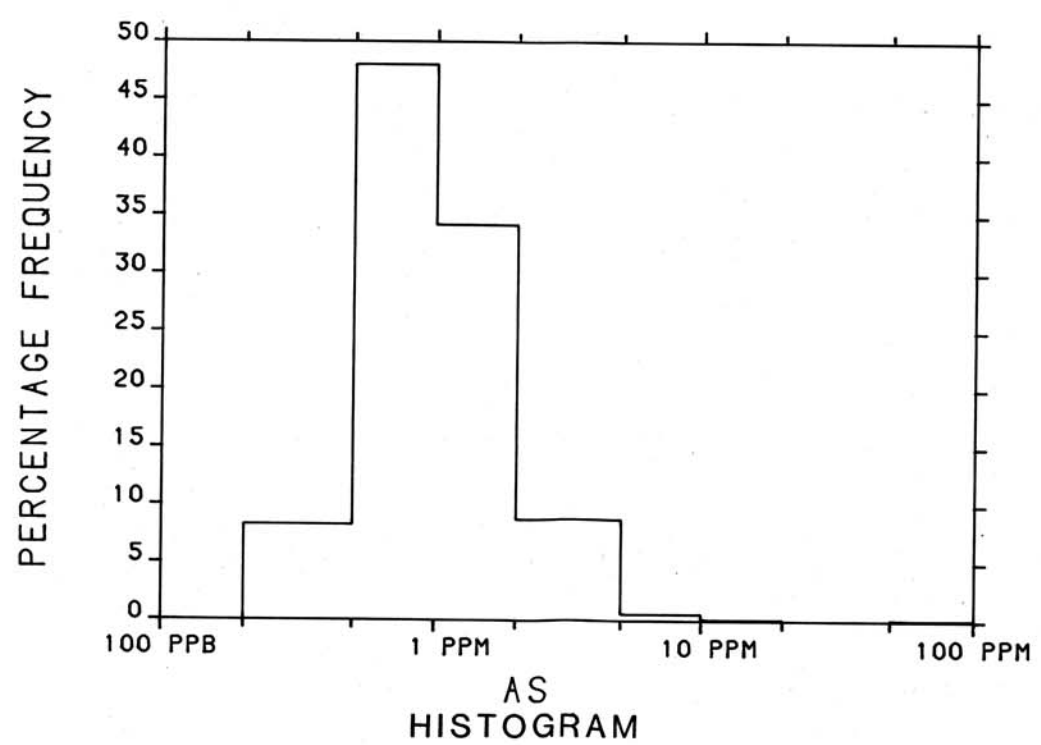
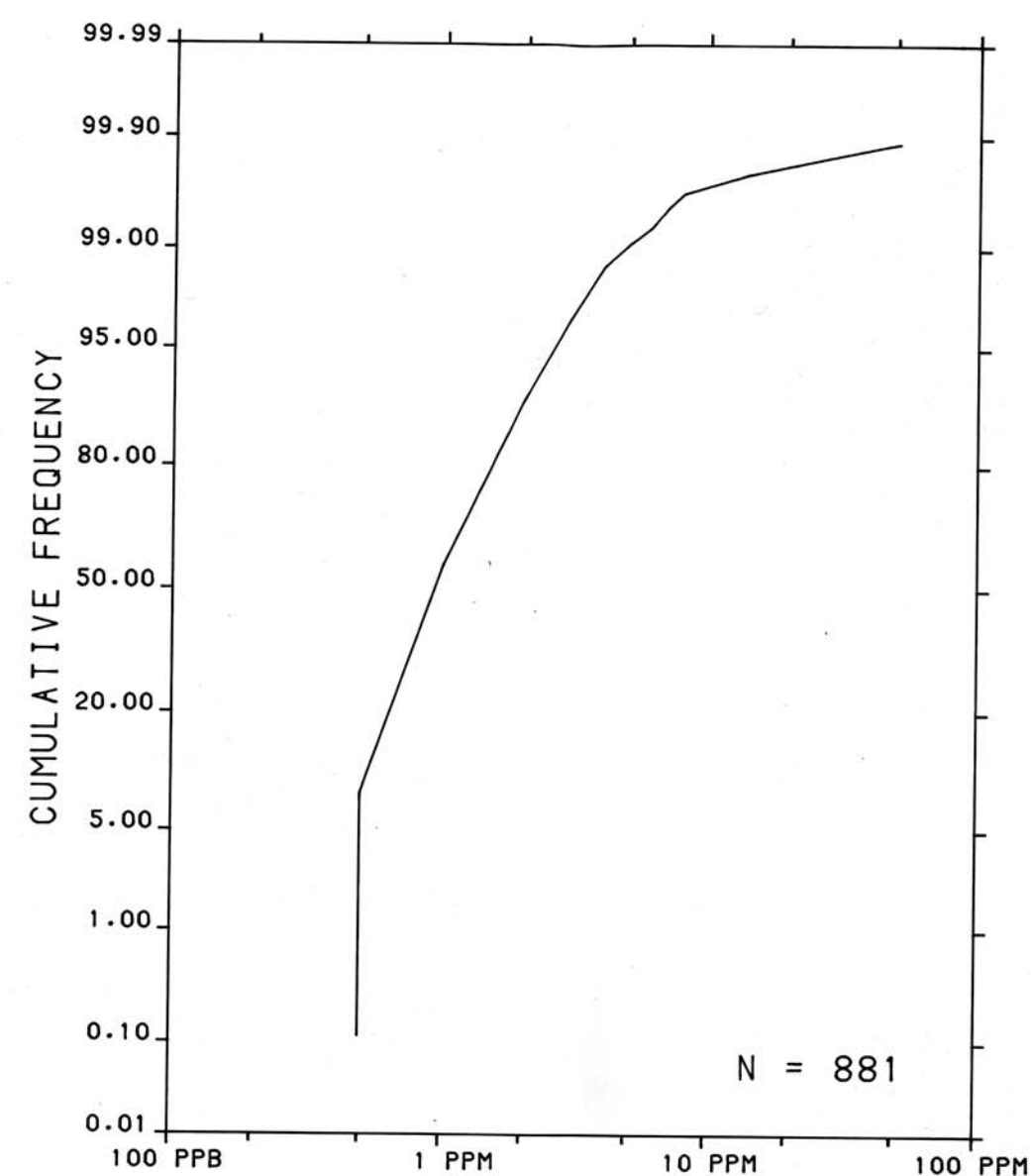
- A* Metadiorite, hornblende of possible Archean age
- 1 Amphibolite, volcanic derived with locally preserved pillows
- 2a Biotite-feldspar-quartz-paragneiss + garnet + granite ± muscovite
- 2b Biotite metatextite + garnet + granite (25-75% white granitic lit)
- 2c Biotite metatextite + garnet + cordierite
- 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; ▲I.F.
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



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

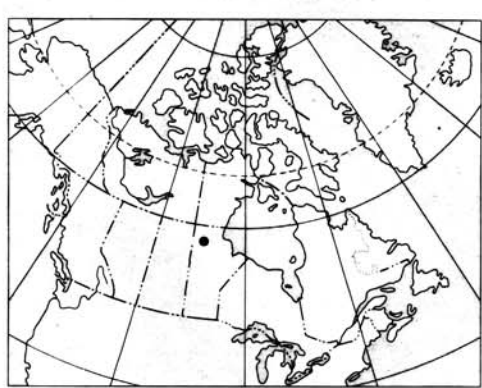
GLACIAL ENVIRONMENT

- 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
Escher (flow direction known or inferred)



Elevation in feet above mean sea level

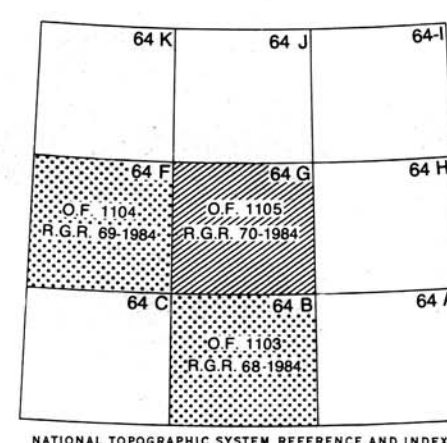
Mean magnetic declination 1985, 9°06' East,
decreasing 23.1' annually. Readings vary from
7°35' in the NE corner to 10°28' in the SW
corner of the map area

Scale 1:250 000
Kilometres 0 5 10 15 20
Universal Transverse Mercator Projection
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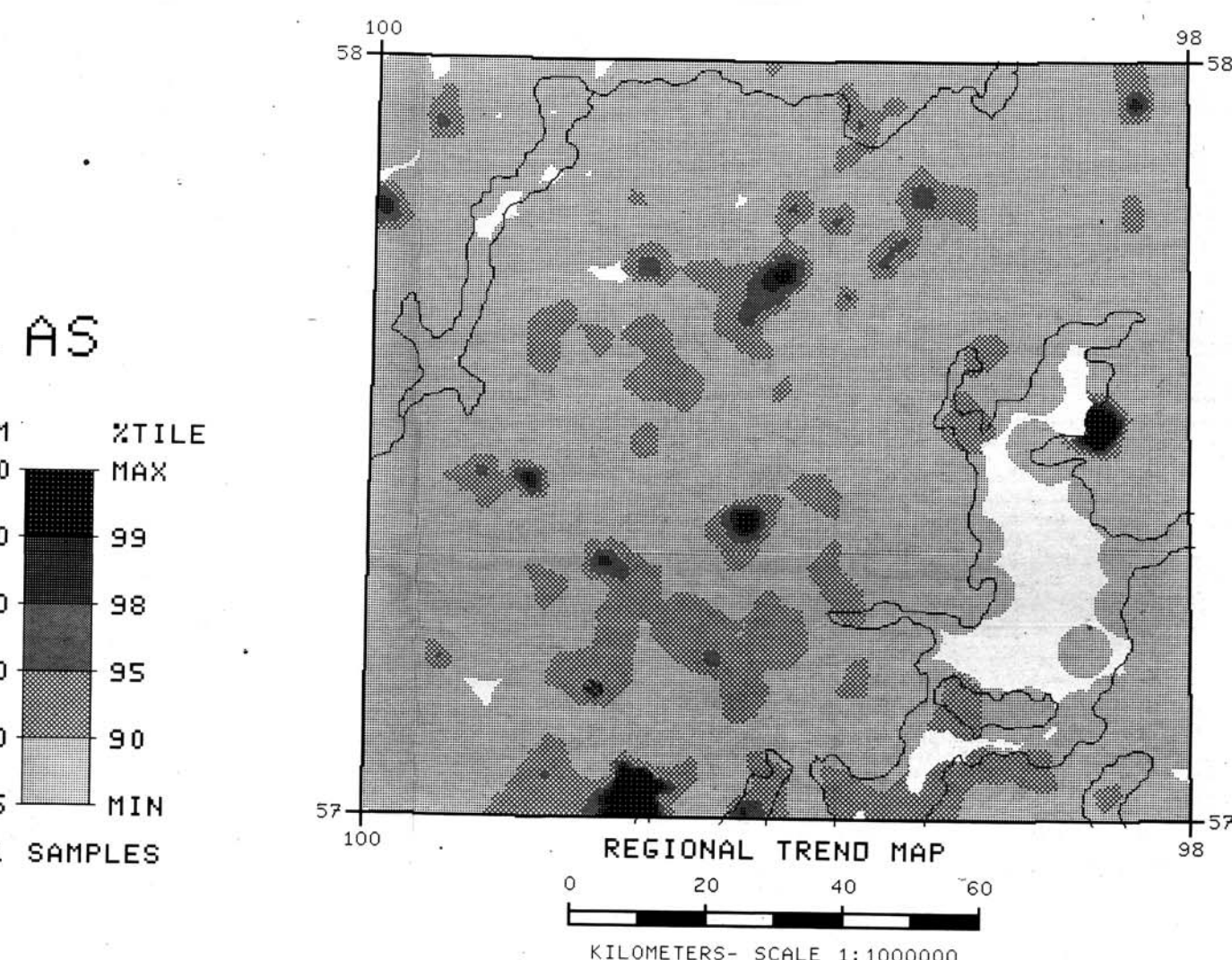
ARSENIC (ppm)

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



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scanned version of the original map.
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copie sur papier.



AS

PPM %TILE

51.0 MAX

5.0 99

4.0 98

3.0 95

2.0 90

0.5 MIN

881 SAMPLES

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Resource Geophysics and Geochemistry Division
and
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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:

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

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