

LEGEND

PALEOZOIC	
20 SCP*	Limestone, shale
19 OCCS	Limestone, shale, sandstone, includes Munising Formation; sandstone
18 LPAD	Diabase, gabbro, diorite
PRECAMBRIAN AND ARCHEAN	
17 LPAC	Fenite, ijolite, pyroxenite, carbonatite
16 MPCC	Croker Island Complex; granite, syenite, diorite, gabbro, Cutler Pluton; granite, quartz monzonite, granodiorite, trondjemite, pegmatite
15 MPND	Nipissing Diabase; diabase, gabbro, metagabbro, granophyre
HURONIAN SUPERGROUP	
COBALT GROUP	
14 MPBR	Bar River Formation; quartzite
13 MPGL	Gordon Lake Formation; siltstone, argillite, quartzite
12 MPL	Lorraine Formation; quartzite, arkose, conglomerate
11 MPG	Gowganda Formation; conglomerate, argillite, greywacke, quartzite, siltstone
QUIRKE LAKE GROUP	
10 MPQL	Serpent Formation; quartzite, conglomerate España Formation; limestone, dolomite, calcareous siltstone; Bruce Formation; conglomerate
HOUGH LAKE GROUP	
9 MPHIL	Aware Formation; conglomerate, arkose, quartzite Mississagi Formation; quartzite, conglomerate Pecors Formation; argillite, siltstone Ramsay Lake Formation; conglomerate
ELLIOT LAKE GROUP	
8 MPEL	McKim Formation; siltstone, argillite, quartzite Matinenda Formation; quartzite, arkose, conglomerate, uniferous conglomerate
7 MPVB	Basalt, andesite, amphibolite, gabbro, anorthosite, ultramafic rocks and minor rhyolite
ARCHEAN	
6 AGM	Massive felsic to intermediate plutonic rocks; granite, granodiorite, tonalite, quartz monzonite, monzonodiorite, pegmatite
5 AGN	Foliated to gneissic felsic to intermediate plutonic rocks; granite, granodiorite, tonalite, quartz monzonite, diorite, migmatite
4 AUB	Gabbro, diorite
3 ACSP	Conglomerate, greywacke, arkose, quartzite, siltstone, argillite, chert
2 AMVF	Felsic to intermediate metavolcanics
1 AMVB	Felsic to intermediate metavolcanics; includes flows, minor mafic pyroclastics and interflow sediments.
IF	Iron formation

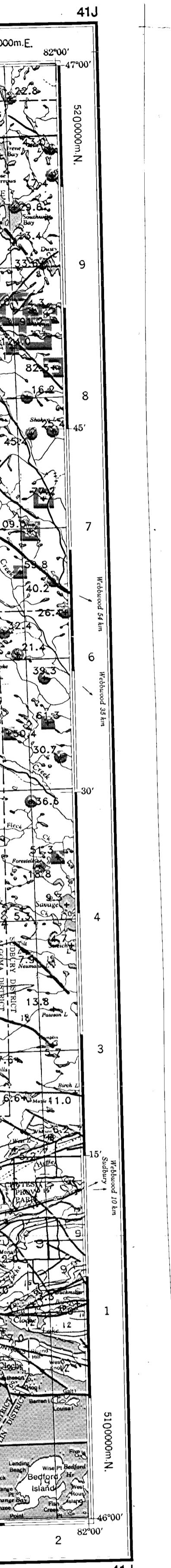
*A mnemonic code assigned to rock types and recorded as part of field observations.

Geological boundary

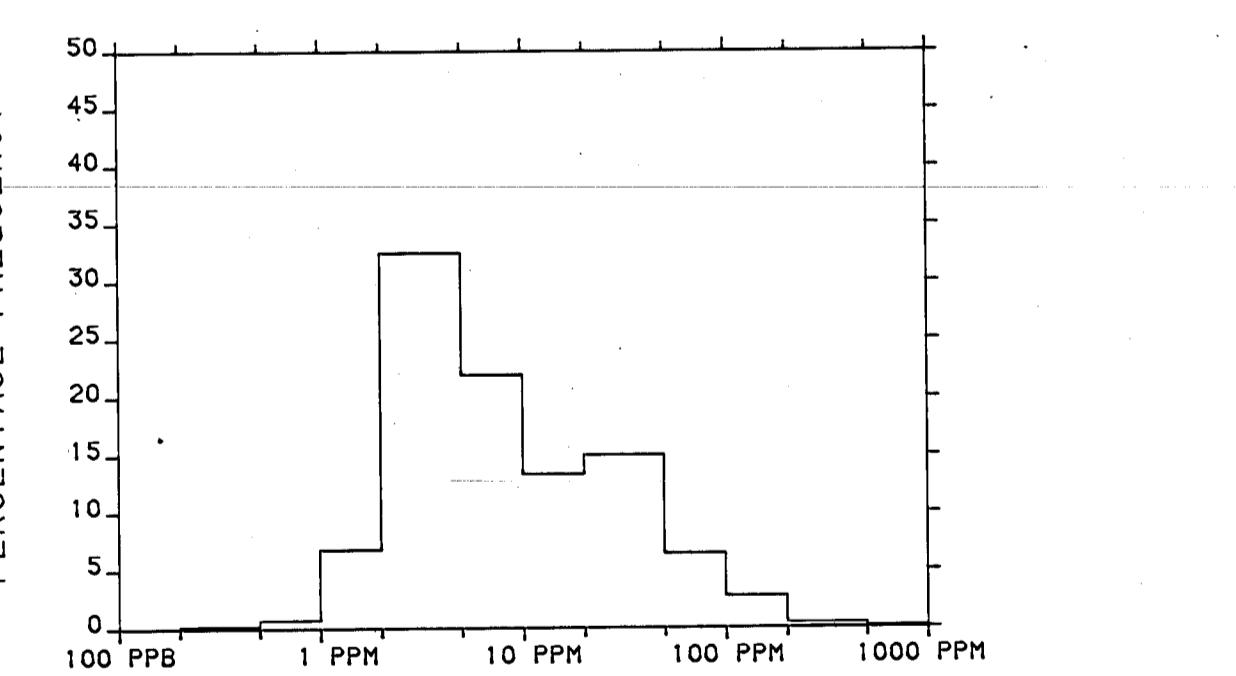
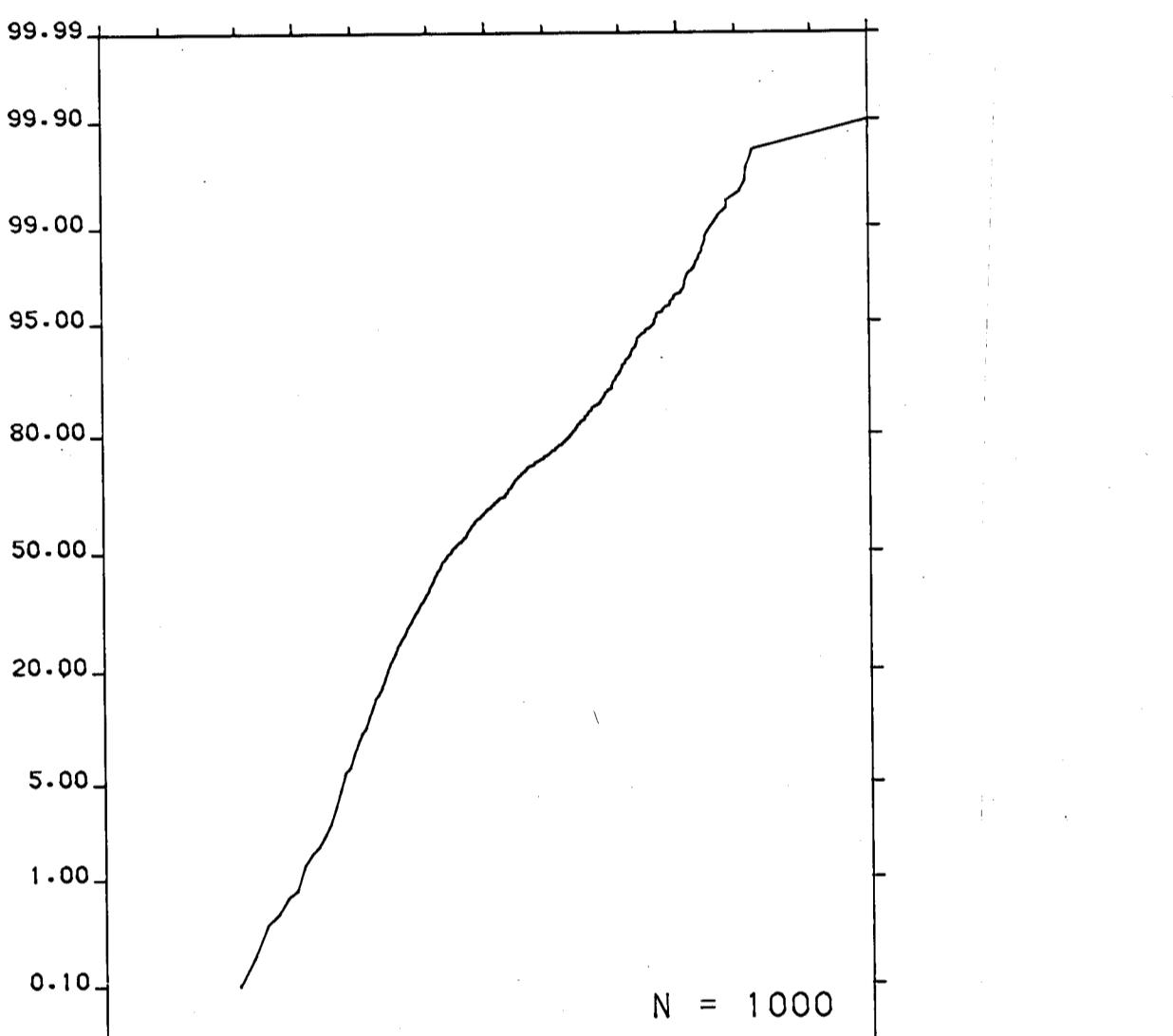
Fault

No analytical results

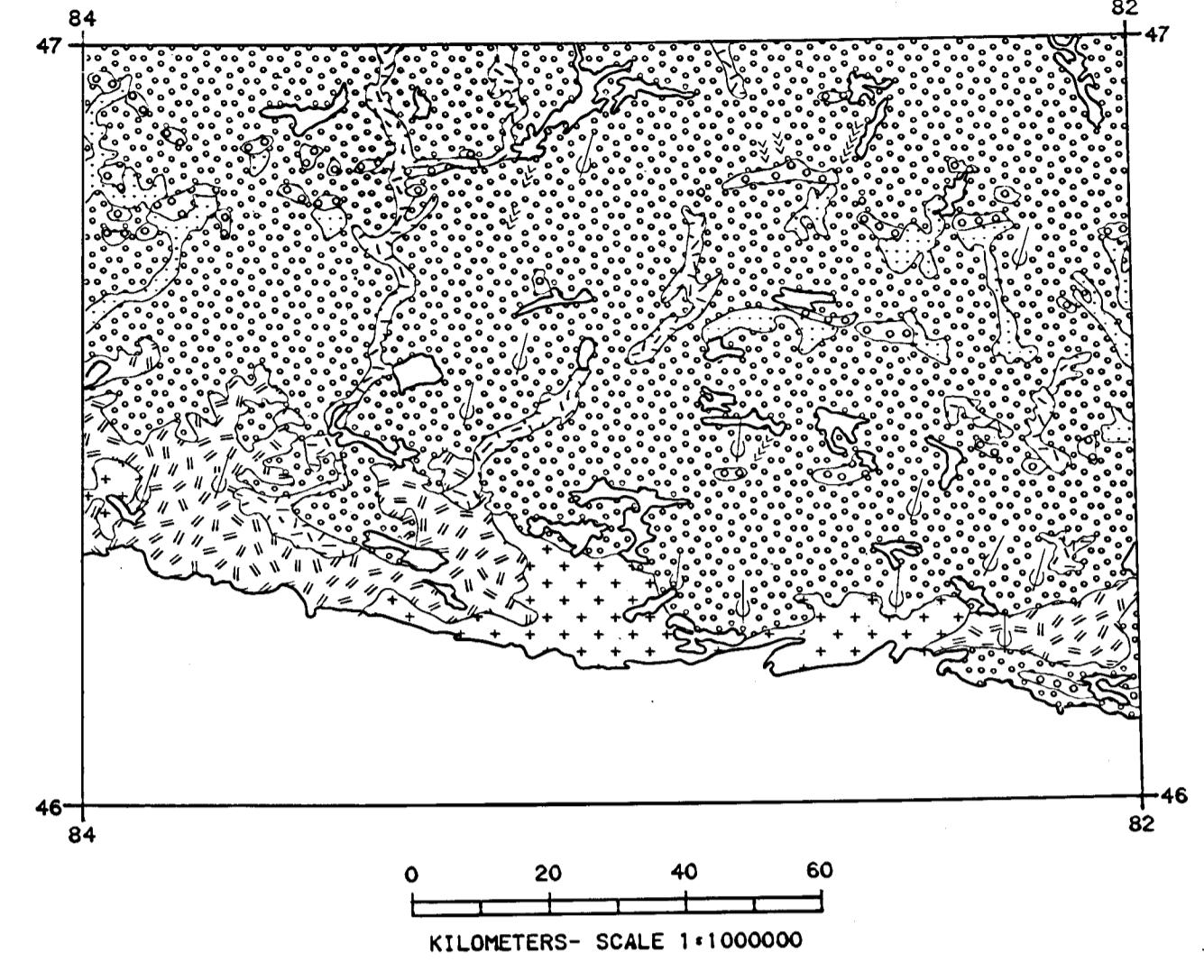
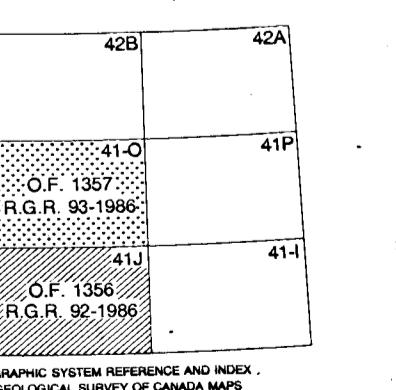
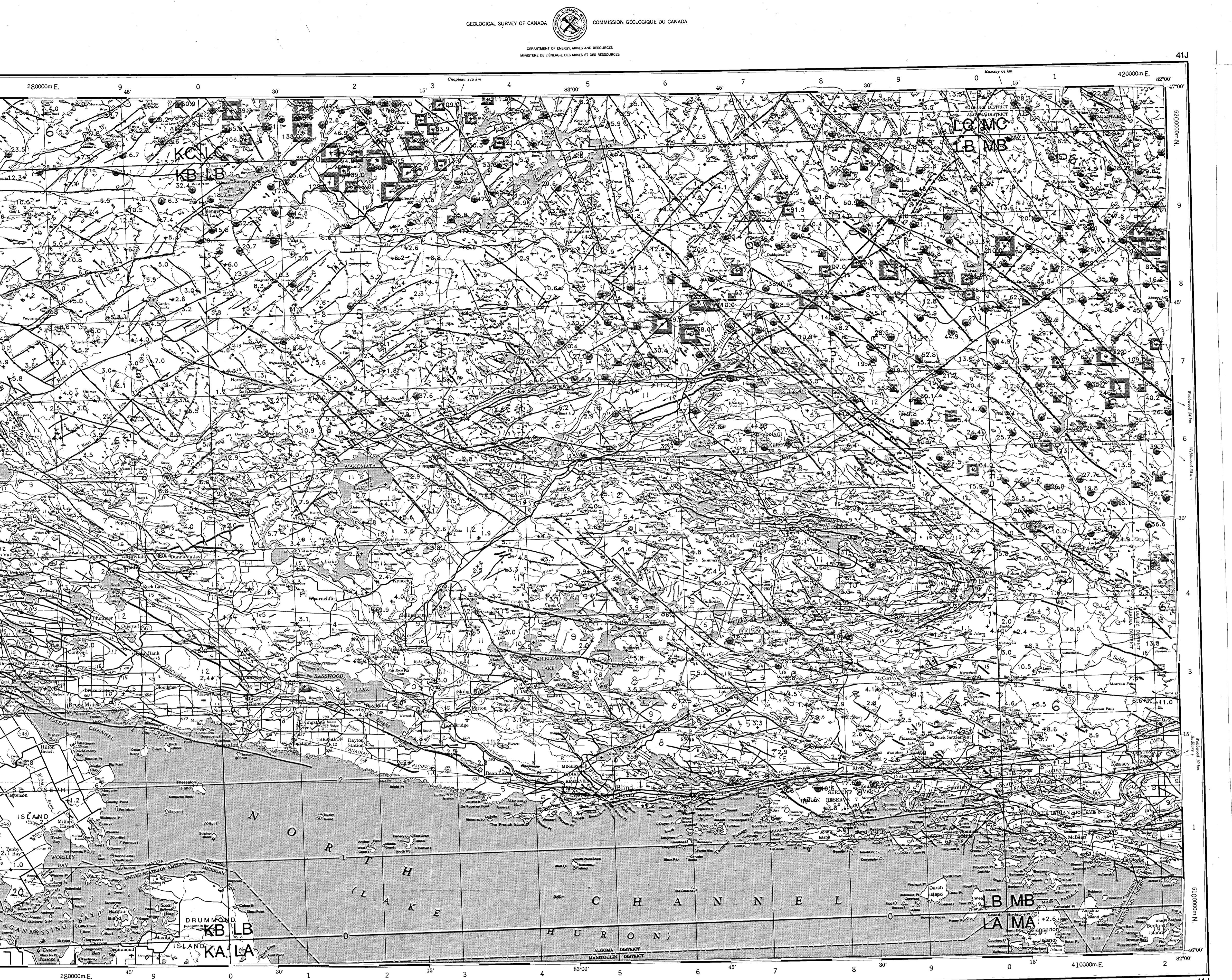
The geology base and legend for these geochemical maps were derived from: Geology - Sault Ste. Marie - Elliot Lake, Map 2419 Geological Compilation Series, Ontario Department of Mines, 1:250 000.
McCracken, G.F.D., Misura, J.D., and Brown, P.A. (1979): Geology - Plutonic Rocks in Ontario, Geological Survey of Canada Map 1533A, to accompany GSC Paper 80-23.



The regional geochemical trend map displayed above utilized a moving weighted average using an inverse distance weighting (1/r²) to filter out minor irregularities due to sizeable regional features. Single point anomalies may be suppressed or eliminated, however, geological units which are chemically enriched, or large metallic deposits undergoing weathering would be expected to produce identifiable anomalies.



CONCENTRATION	FREQUENCY
121.1 to 994.2	N= 20(2.0%)
74.9 to 121.0	N= 30(3.0%)
49.2 to 74.8	N= 50(5.0%)
14.2 to 49.1	N= 200(20.0%)
<.5 to 14.1	N= 700(70.0%)



Complexes: when two or more types of glacial or non-glacial environment are interspersed in a mosaic or repeating pattern, the relative dominant/subordinate amount of each type is indicated by sequential order. For example, 2/1 indicates predominantly silty to sandy till with lesser clayey till.

SYMBOLS

Surficial geological boundary

Striae

Fluting, drumlin or drumlinoid ridge

Esker, kame or kame complex

Surficial geology derived from:
Boissoneau, A.N. (1965), Map S465, Ontario Department of Lands,
Forrest, V.K., Grant, D.R., and Rampton, V.N. (1969), Glacial Map of
Canada, Geological Survey of Canada, Map 1253A (Scale: 1:5 000 000).

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CONTRACTORS

Sample collection by SIAL Geophysique Inc., Montreal
Sample preparation by Golder Associates, Ottawa

Sediment chemical analyses by Barringer Magenta Ltd., Rexdale, Ontario

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