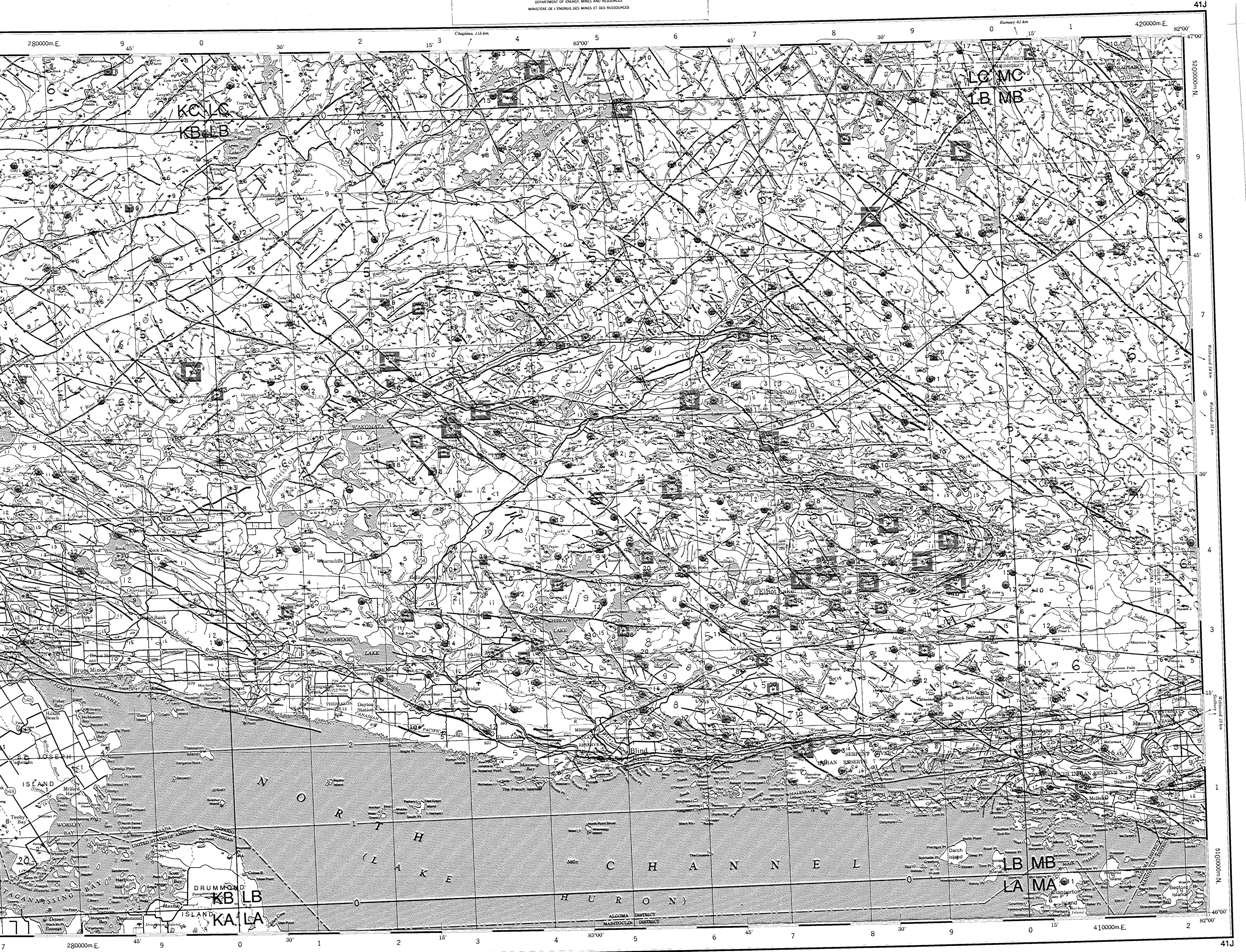


PALEOZOIC	
20	SCP* Limestone, shale
19	OCGS Limestone, shale, sandstone, includes Munising Formation; sandstone
PRECAMBRIAN AND ARCHEAN	
18	LPAD Diabase, gabbro, diorite
PRECAMBRIAN	
17	LPAC Fenite, ijolite, pyroxenite, carbonatite
MIDDLE TO LATE PRECAMBRIAN	
16	MPCC Greater Island Complex; granite, syenite, diorite, gabbro, Cutler Pluton; granite, quartz monzonite, granodiorite, trondjemite, pegmatite
MIDDLE PRECAMBRIAN	
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 Lorain Formation; quartzite, arkose, conglomerate
11	MPG Gowganda Formation; conglomerate, argillite, greywacke, quartzite, siltstone
QUIRKE LAKE GROUP	
10	MPQL Serpent Formation; quartzite, conglomerate Espion Formation; limestone, dolomite, calcareous siltstone Bruce Formation; conglomerate
HOUGH LAKE GROUP	
9	MPHL Awerns Formation; conglomerate, arkose, quartzite Mississagi Formation; quartzite, conglomerate Pecors Formation; argillite, siltstone Ramsay Lake Formation; conglomerate
ELLIOIT LAKE GROUP	
8	MPEL McKim Formation; siltstone, argillite, quartzite Mathianda Formation; quartzite, arkose, conglomerate, uraniferous 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
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 Mafic 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 St. Marie - Elliot Lake, Map 2419 Geological Compilation Series, Ontario Department of Mines, 1:250 000 McCrack, 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.	



COBALT (ppm)
LAKE SEDIMENTS
GSC OPEN FILE 1356

REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 92-1986

CANADA - ONTARIO

MINERAL DEVELOPMENT AGREEMENT (1986-1990)

LAKE SEDIMENT AND WATER GEOCHEMICAL SURVEY

CENTRAL ONTARIO, 1986

Digital data are available on IBM-PC compatible diskette from:

Geological Survey of Canada

Publication Distribution

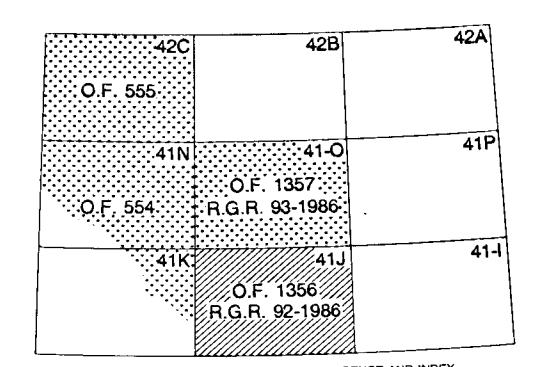
60 Booth St.

Ottawa, Ontario

K1A 6K7

Tel: (613) 995-4342

Mean magnetic declination 1987, 7°40' West, increasing 10.6' annually. Readings vary from 8°33'W in the SE corner to 7°00'W in the NW corner of the map area



Scale 1:250 000 - Échelle 1/250 000

Kilometres 5 10 15 20 Kilomètres

Universal Transverse Mercator Projection © Crown Copyright reserved

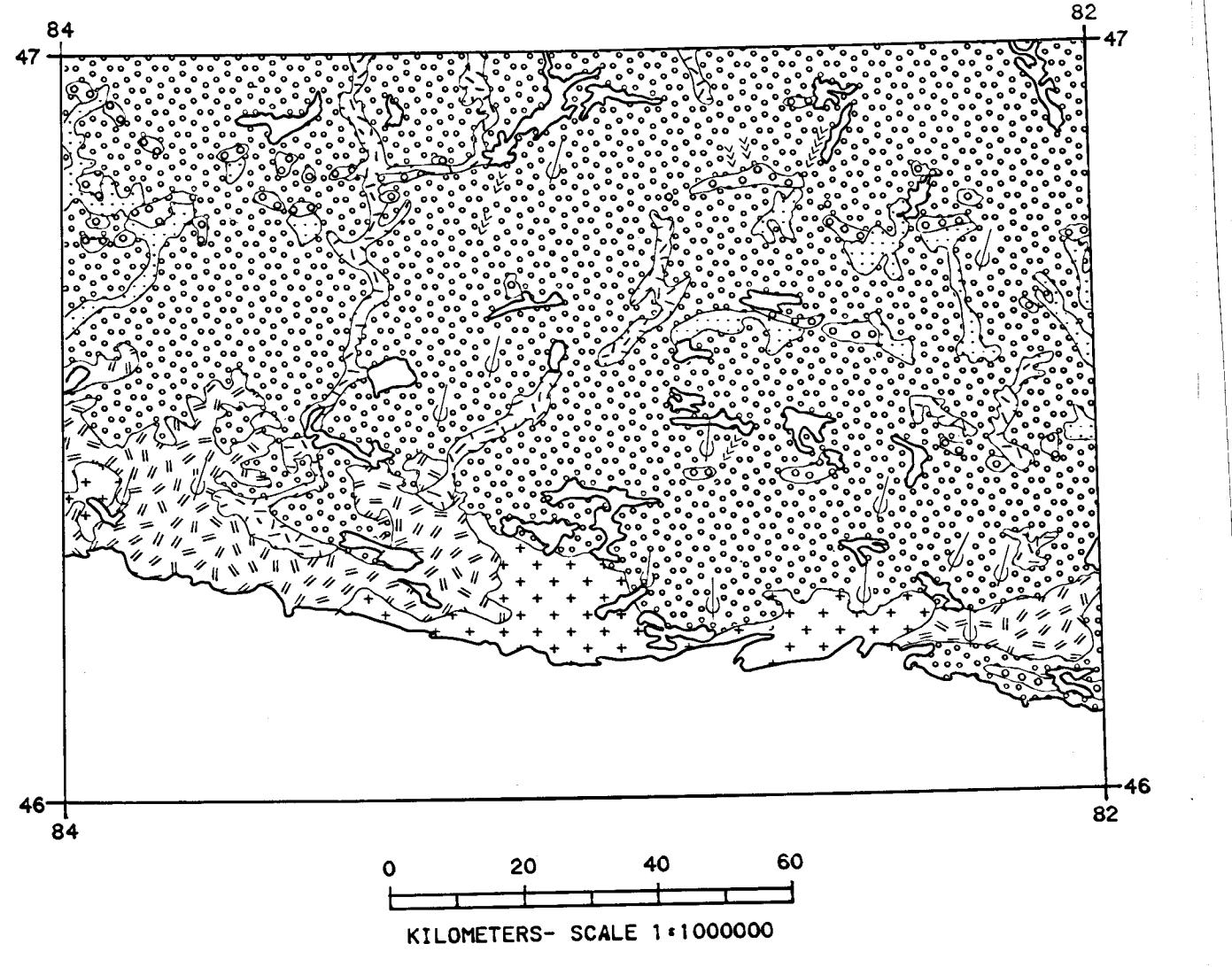
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Base map at the same scale published by the Surveys and Mapping Branch in 1979

COBALT (ppm)
LAKE SEDIMENTS
GSC OPEN FILE 1356

CENTRAL ONTARIO, 1986

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SURFICIAL GEOLOGY

This legend is common to Open Files 1356 and 1357

PROGLACIAL AND GLACIAL ENVIRONMENTS

Glaciolacustrine Deposits:

- Varved or massive clay and silt
- Fine Sands, sands, and deltaic sand

Glaciolacustrine and Ice Contact Deposits:

- Outwash sands and gravel
- End moraine, interlobate moraine; sand, gravel and boulders
- Esker or kame complex; sand, gravel, boulders

Glacial Deposits:

- Predominantly clay till
- Predominantly silty to sandy till

NONGLACIAL ENVIRONMENT

- Bedrock

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 clay till.

SYMBOLS

- Surficial geological boundary
- Striae
- Fluting, drumlin or drumlinoid ridge
- Esker, kame or kame complex

Geological Survey derived from:
Boissonneau, A.N. (1965), Map 5465, Ontario Department of Lands,
Forests.

Prest, 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).

Geological Survey of Canada
Mineral Resources Division
Exploration Geochemistry Subdivision

CONTRACTORS

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

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

Au analyses by Chemex Labs Limited, Vancouver
Water chemical analyses by Barringer Magenta Laboratories
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