

The regional geochemical trend map displayed above utilized a moving weighted average using an inverse distance function (1/d²) to filter out minor irregularities and emphasize broad-scale 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.

Geological Survey of Canada
 Resource Geophysics and Geochemistry Division

CONTRACTORS

Sample collection by Rogers Exploration Services Ltd., Whitehorse
 Sample preparation by Golder Associates, Ottawa
 Gold analysis by Chemex Labs Limited, Vancouver, B.C.

Sediment chemical analyses by Barringer Magenta Ltd., Rexdale, Ontario
 Water chemical analyses by Barringer Magenta Laboratories (Alberta) Ltd., Calgary

This map forms one of a series of maps released by the Geological Survey of Canada, Open Files 1217 to 1220. Each Open File consists of maps of various geochemical variables: 21 for stream sediment, 3 for stream water and 1 sample site location.

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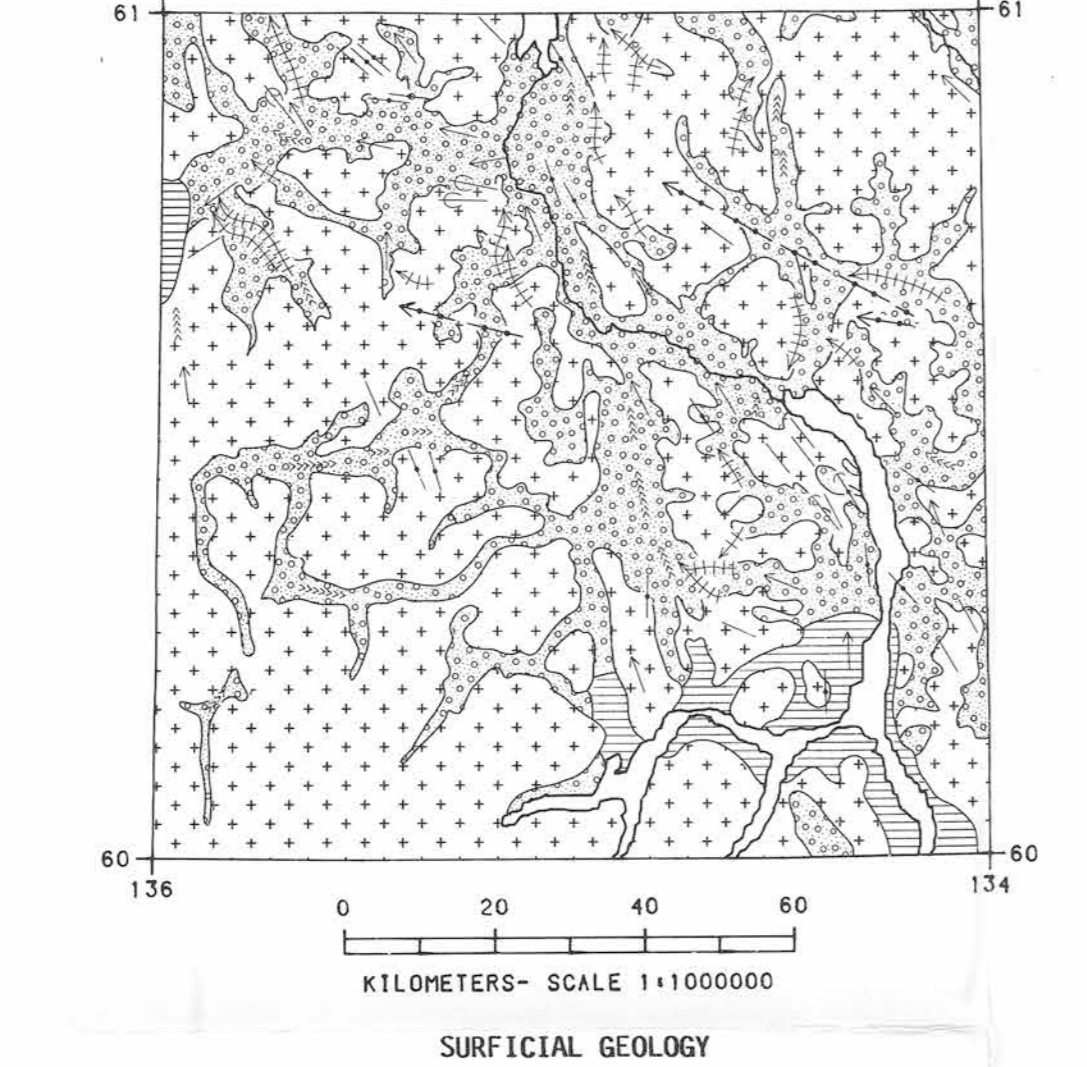
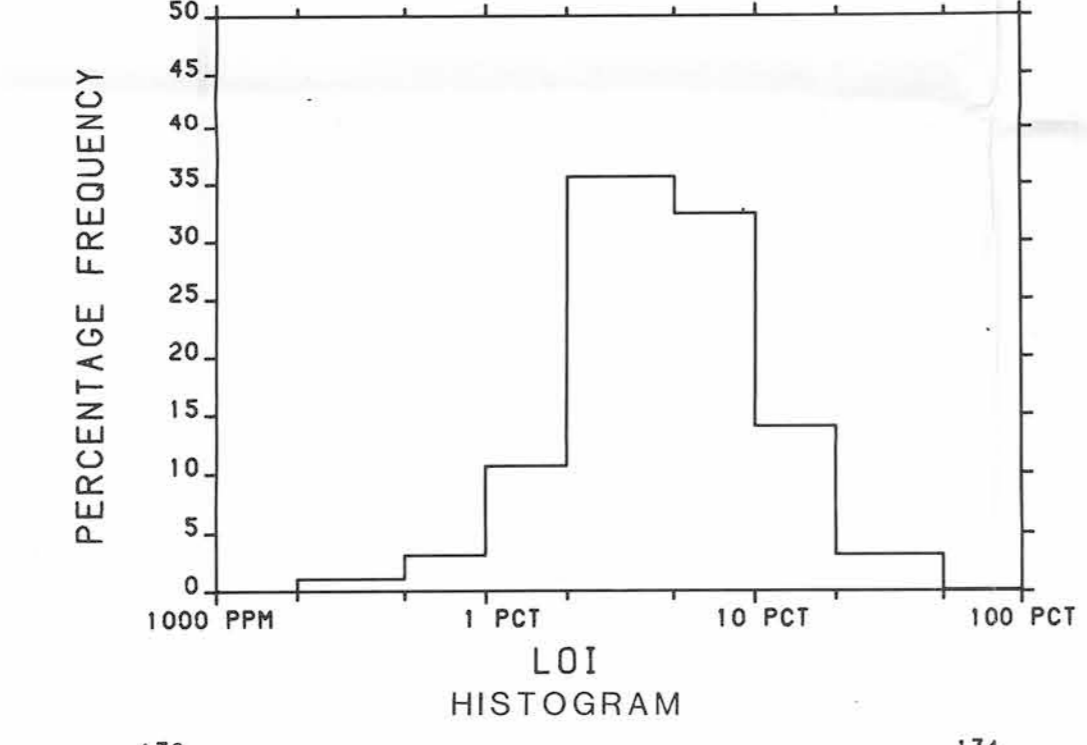
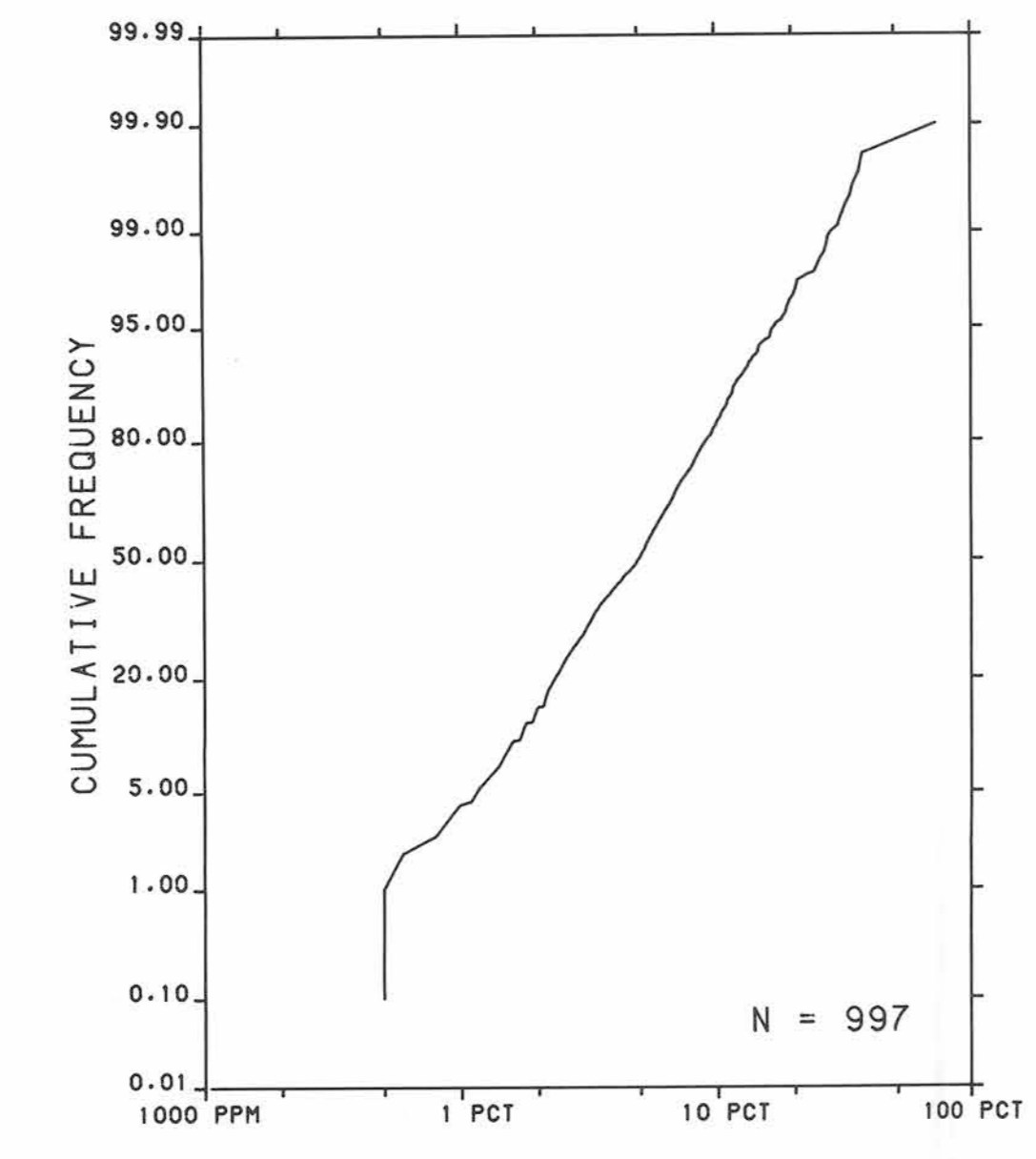
The data are also available in digital form. For further information please contact:

The Director
 Computer Science Centre
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 Ottawa, Ontario
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SYMBOLS

- Surficial deposit boundary
- Meltwater channels, outwash deposits, indicating direction of flow
- Glaciation lination parallel to ice flow direction, includes fluting, crag and tail, roches moutonnées and drumlinoid forms, direction of flow known, unknown
- Drumlinoid form, direction of movement inferred, not inferred
- Glacial striae, direction inferred
- Esker and/or kame complex
- Boulder train, direction of movement

Sources of information:
 Hughes, O.L., Campbell, R.B., Muller, J.E., and Wheeler, J.O. (1968) Glacial Map of Yukon Territory, Geological Survey of Canada, Map 6-1968, (1:1 000 000 scale) to accompany GSC Paper 68-34
 Prest, V.K., Grant, D.R., and Rampton, V.N. (1967) Glacial Map of Canada, Geological Survey of Canada (1:5 000 000 scale)
 Wheeler, J.O. (1960) Geology - WHITEHORSE, Yukon Territory, Geological Survey of Canada, Map 1093A (1:253 440 scale)

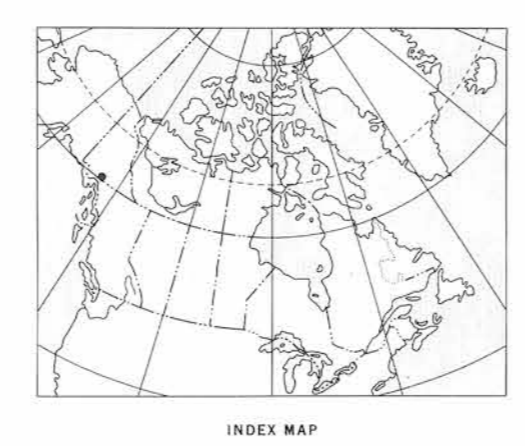
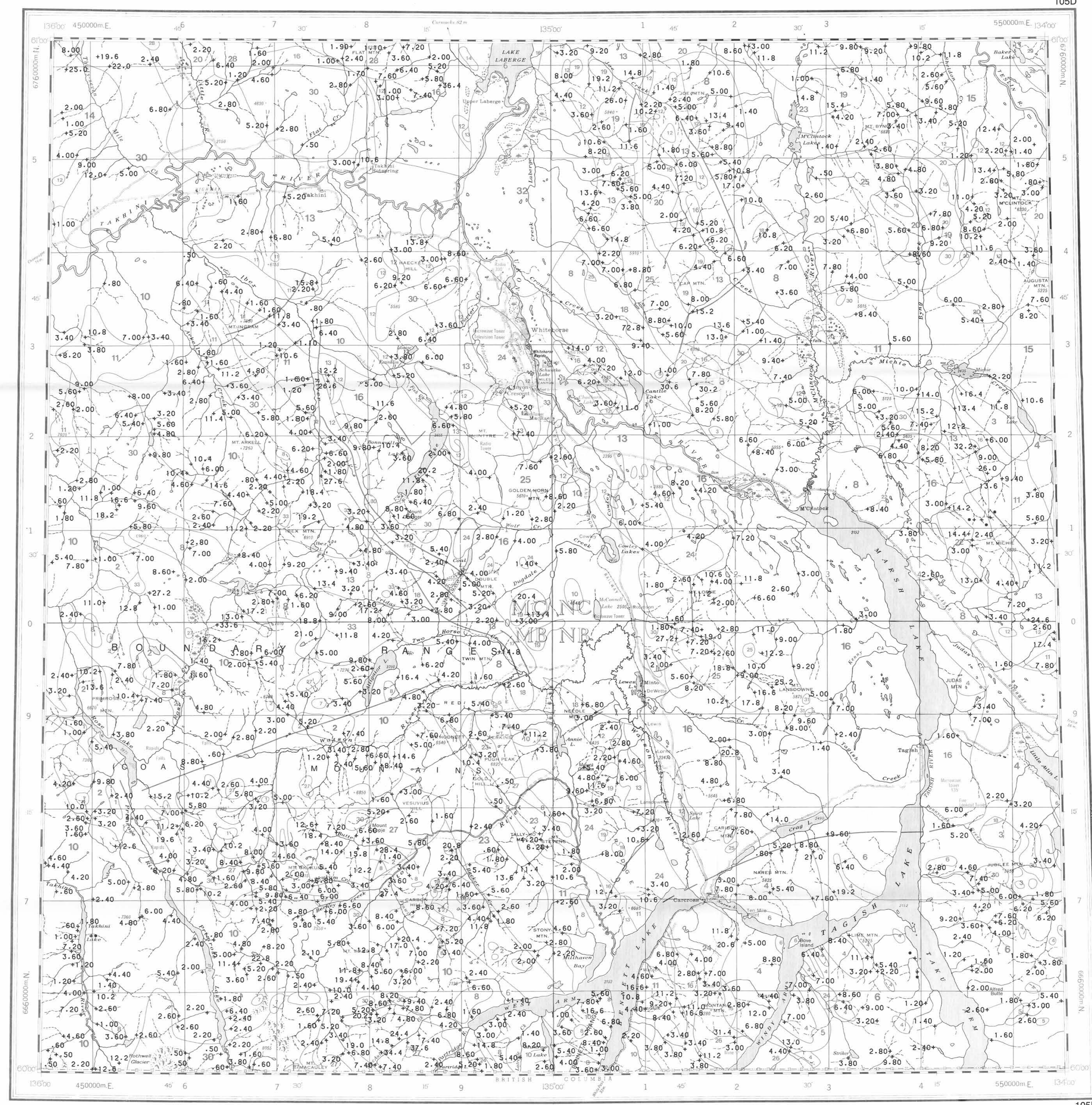


- Glaciolacustrine deposits
- Undivided surficial deposits; alluvium, glacial till and moraine, outwash and ice contact deposits, volcanic ash, loess, colluvium
- Bedrock exposures; includes discontinuous veneer of undivided glacial drift, local alpine glaciation features

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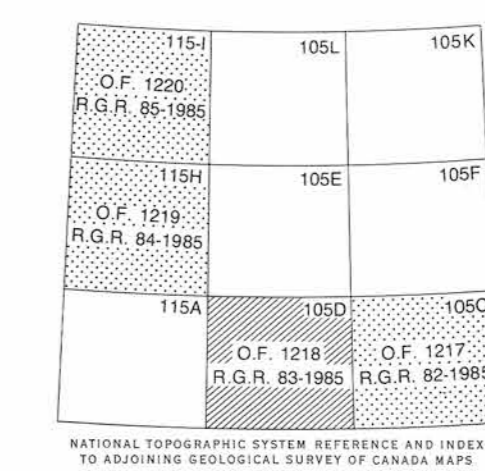


Elevation in feet above mean sea level

Mean magnetic declination 1986, 29°18' East, decreasing 14.2' annually. Readings vary from 29°06' E in the SE corner to 22°29' E in the NW corner of the map area

LOSS ON IGNITION (%)
 GSC OPEN FILE 1218
 REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 83-1985
 CANADA-YUKON
 MINERAL DEVELOPMENT AGREEMENT (1984-89)
 STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY
 SOUTHERN YUKON TERRITORY, 1985

Base map at the same scale published by the Surveys and Mapping Branch in 1979. Streams were revised by the Geological Survey of Canada for this edition



LEGEND

QUATERNARY	33 RMC 64* MILES CANYON: Basalt
	32 QS 64 Glacial and surficial deposits
TERTIARY	31 TQM 62 Quartz monzonite, granodiorite
LATE TERTIARY	30 LTG 62 Rhyolite porphyry, granite, granodiorite
PLIOCENE	29 PV 62 Basalt
Eocene	
MOUNT NANSEN GROUP	
EMN 59 Acid to intermediate tuff, breccia	
SKUKUM GROUP	
ESK 59 Andesite, basalt, breccia	
SLOKO GROUP	
ESL 59 Rhyolite, trachyte	
CRETACEOUS AND TERTIARY	
KTG 56 Granite, quartz monzonite	
KTGD 56 Granodiorite, quartz diorite	
KTQD 56 Tonalite	
CRETACEOUS	
KY 52 Syenite, monzonite	
KQM 52 Quartz monzonite, granodiorite; CASSIAR quartz monzonite, alkaliite	
KGD 52 Granodiorite	
KV 52 Basalt, andesite, quartz dacite	
JURASSIC AND CRETACEOUS	
JKDI 51 Diorite, hornblende diorite	
JKT 51 TANTALUS: Conglomerate, siltstone, arkose, coal	
JURASSIC	
JL 47 Greywacke, arkose, conglomerate	
TRIASSIC AND JURASSIC	
TJS 46 Argillite, sandstone, siltstone	
TRIASSIC	
TGMN 42 Foliated hornblende granodiorite, quartz	
UPPER TRIASSIC	
LEWIS RIVER GROUP (UTLW, UTC, UTLV)	
UTLW 45 Greywacke, argillite, conglomerate	
UTC 45 Limestone	
UTLV 45 Andesite, basalt	
MESOZOIC UNDIVIDED	
MGD 41 Granodiorite, quartz monzonite	
MGMN 41 Foliated hornblende granodiorite, quartz monzonite	
MV 41 Andesite, basalt, tuff	
PALEOZOIC UNDIVIDED	
PGMN 09 PELLY GNEISS: Foliated to gneissic granodiorite	
CARBONIFEROUS AND PERMIAN	
CPH 35 HORSEFEED: Limestone	
CPK 35 KEDAWA: Chert, argillite	
CPV 35 Andesite, basalt, chert, tuff	
CPUB 35 Serpentine, diorite, pyroxenite, peridotite	
HADRYNIAN AND CAMBRIAN	
HCSN 08 Schist, gneiss, quartzite	
HADRYNIAN	
HC 07 Crystalline limestone	

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

Geological boundary
 Fault
 No analytical

Geological base and legend are derived from: Map 1398A, MACKINAC RIVER, YUKON - DISTRICT OF MACKENZIE - ALASKA, NTS SHEET 105, Compiled by H. Gabrielse, D.J. Tempelman-Kluit, S.L. Blusson and Campbell, Geological Survey of Canada, Energy, Mines and Resources Canada, 1980. 1:1 000 000 scale