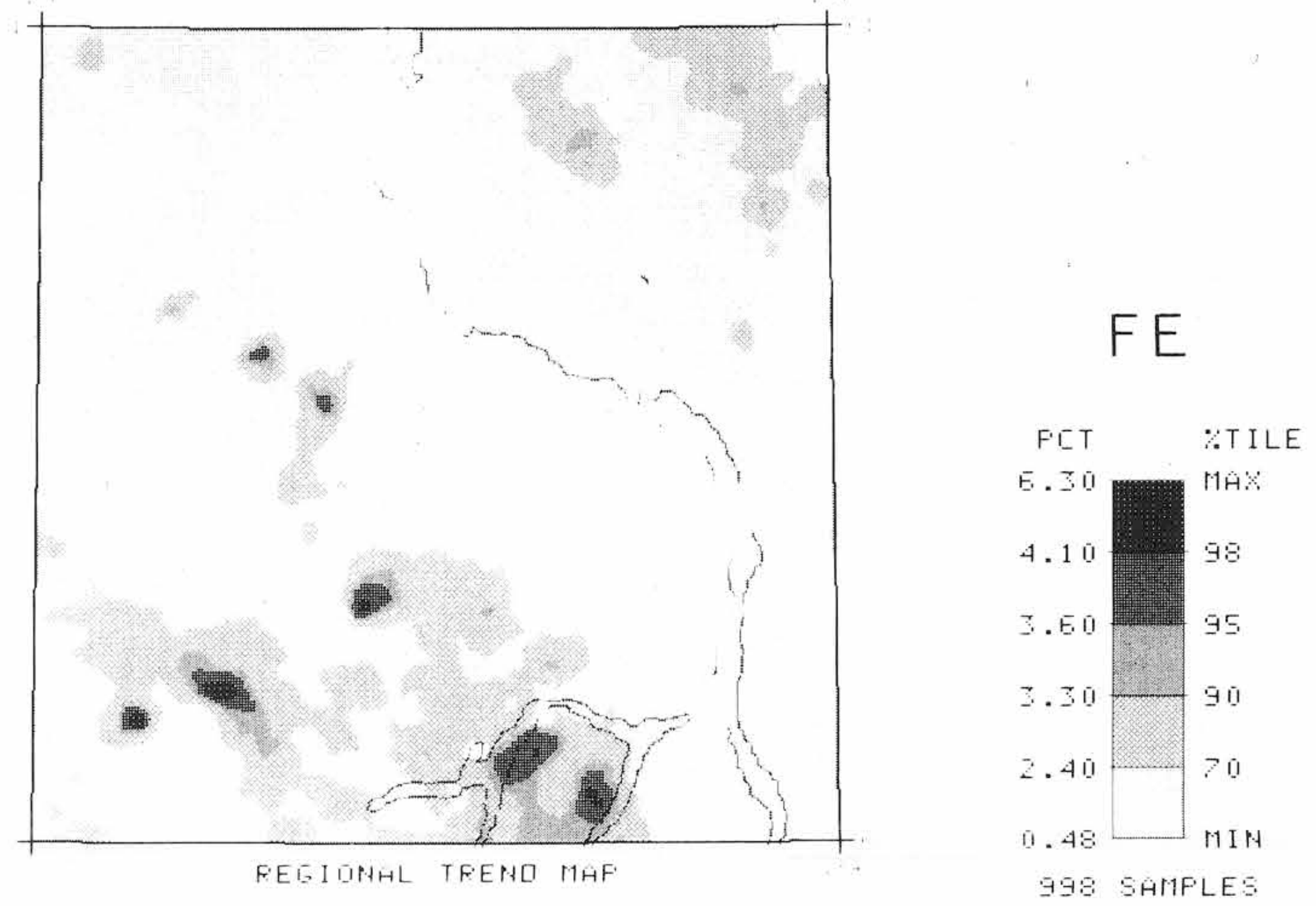
GEOLOGICAL SURVEY OF CANADA COMMISSION GÉOLOGIQUE DU CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES
MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES

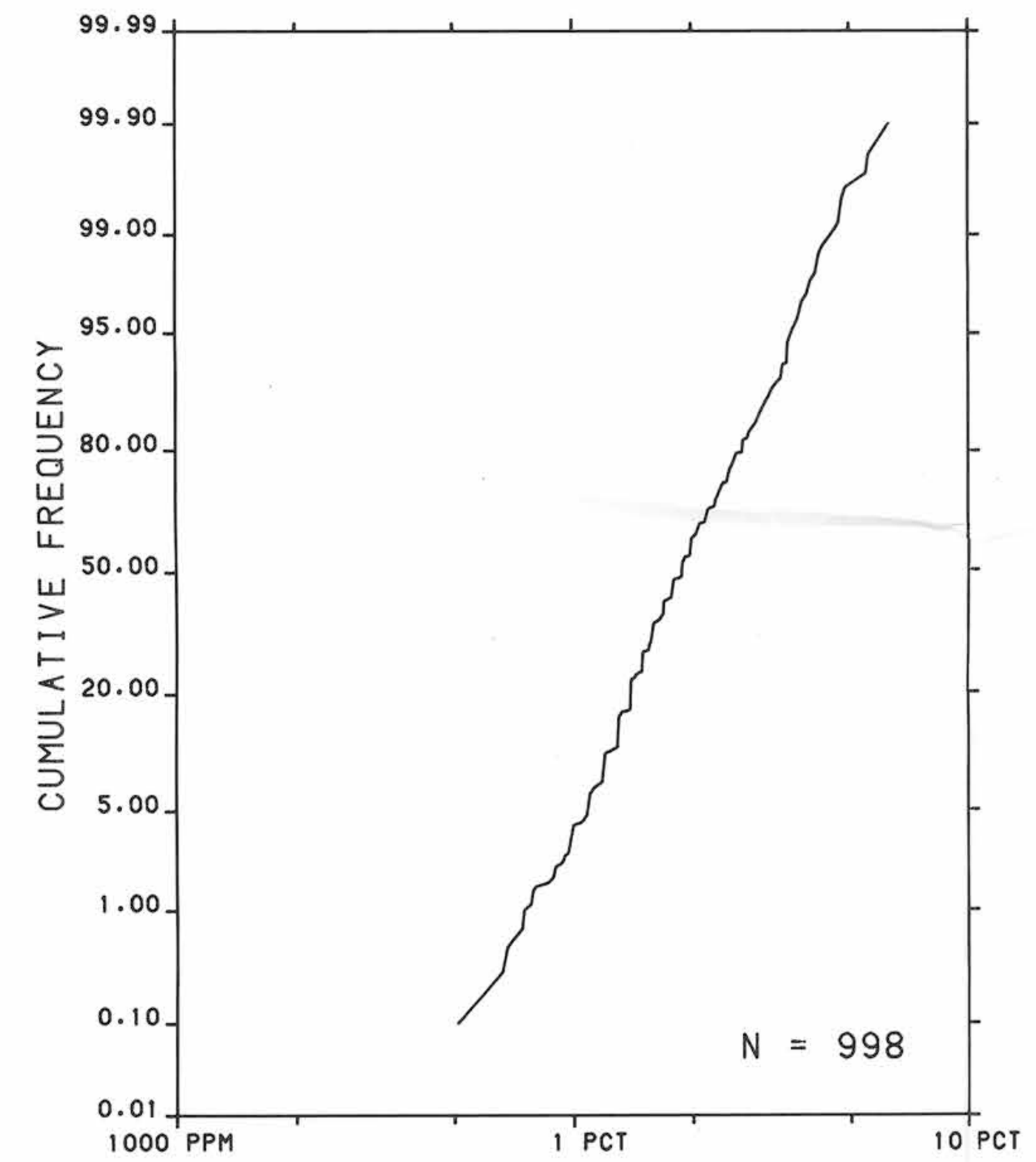
IRON (%)

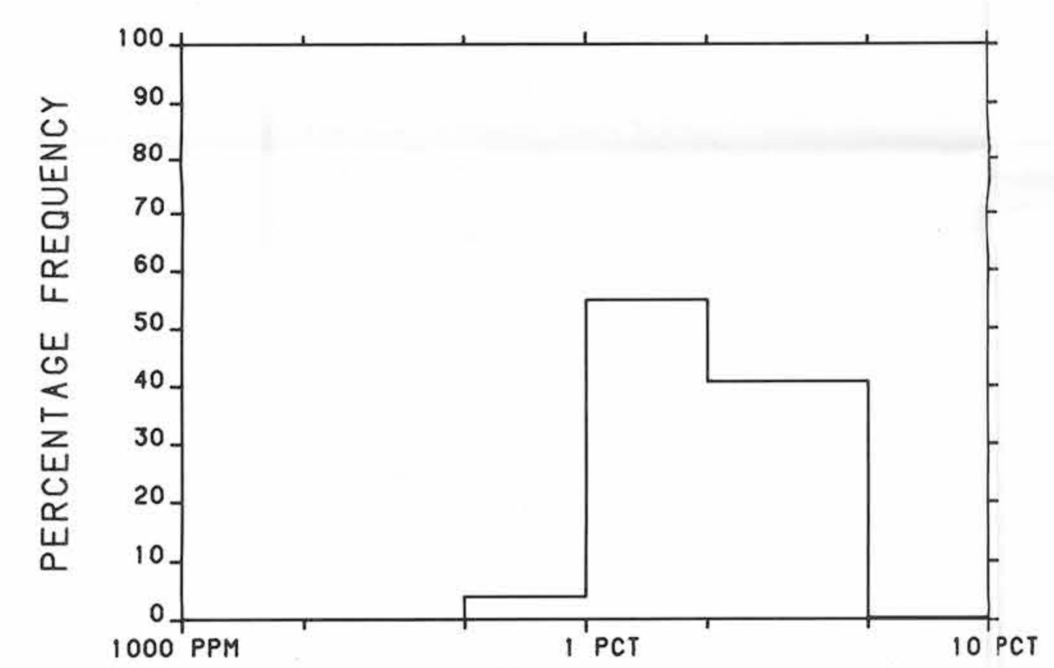
GSC OPEN FILE 1218
SOUTHERN YUKON TERRITORY, 1985



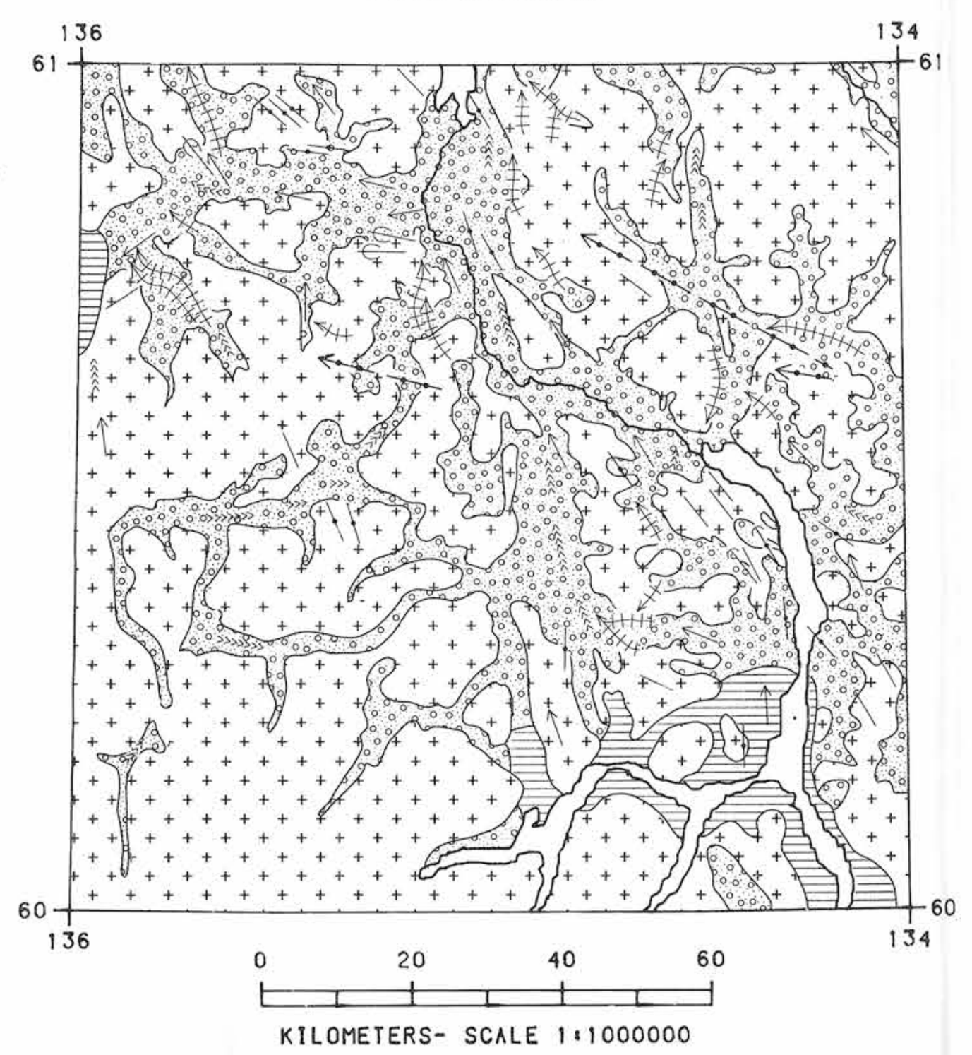
REGIONAL TREND MAP

The regional geochemical trend map displayed above utilized a moving weighted average using an inverse distance function ($1/d^3$) 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





FE
HISTOGRAM



SURFICIAL GEOLOGY

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

SYMBOLS

Surficial deposit boundary . . . .

Meltwater channels, outwash deposits, indicating direction of flow . .

Glaciation lineation parallel to ice flow direction, includes fluting, crag and tail, roches moutonees 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)

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:

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
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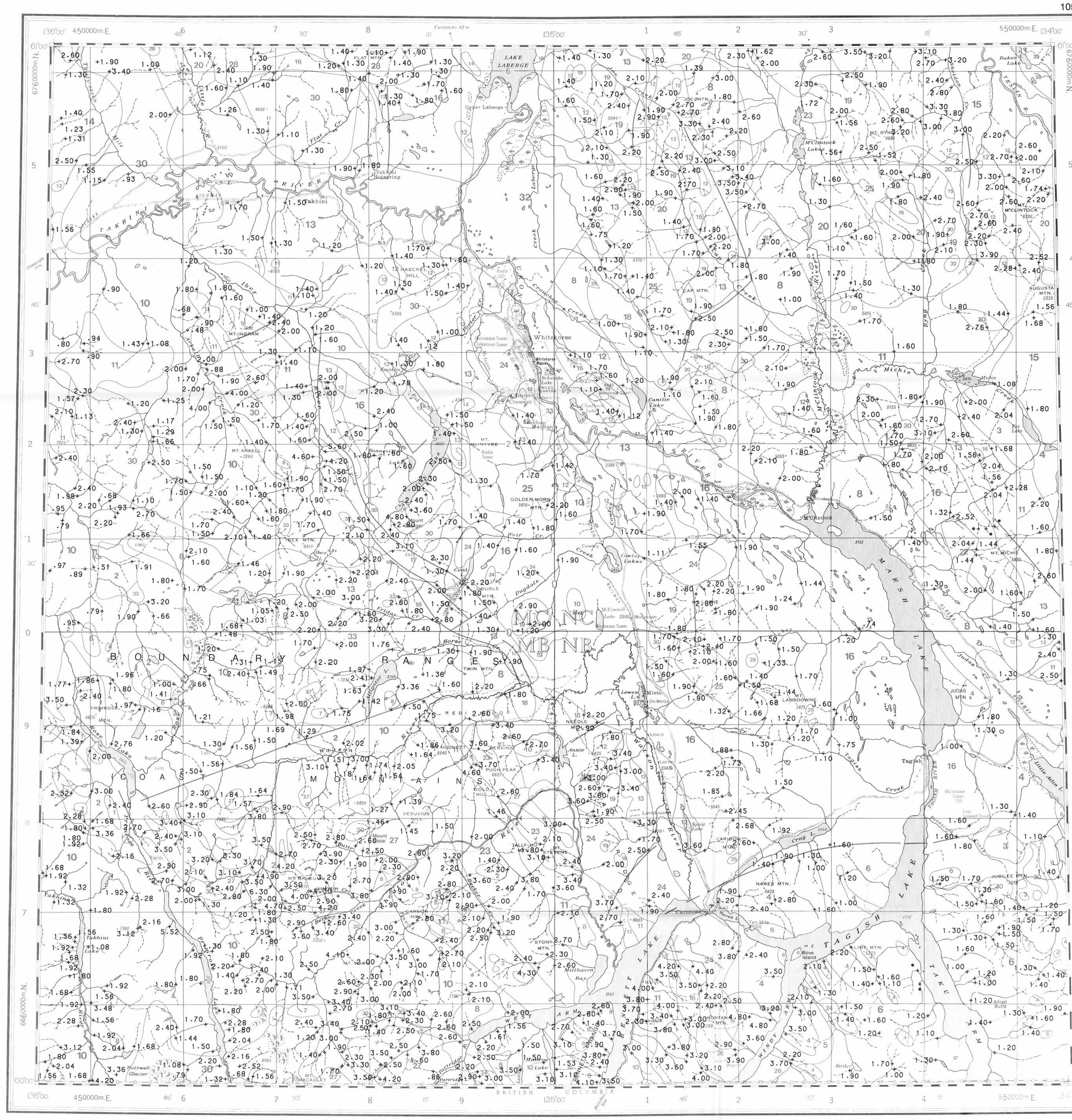
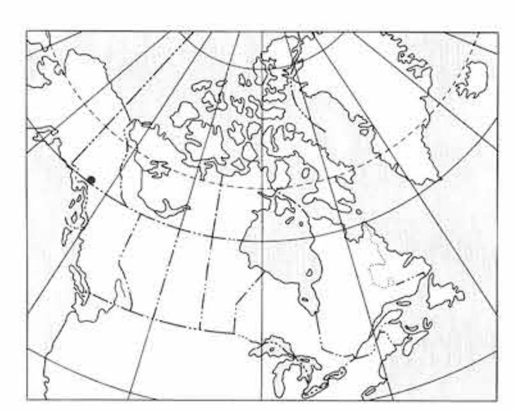
K1A 0E4

Contribution to the Canada/Yukon Subsidiary Agreement on Mineral Resources 1985-1989 under the Canada/Yukon Economic Development Agreement

105D



105D



INDEX MAP

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

IRON (%)

GSC OPEN FILE 1218

REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 83-1985

CANADA-YUKON

MINERAL DEVELOPMENT AGREEMENT (1984-89)

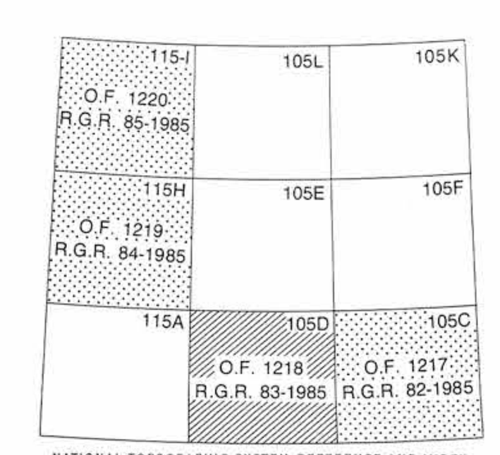
STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY
SOUTHERN YUKON TERRITORY, 1985

Scale 1:250 000

Kilometres 5 0 5 10 15 20 Kilometres

Universal Transverse Mercator Projection

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



NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO ADJOINING GEOLOGICAL SURVEY OF CANADA MAPS

LEGEND

CENOZOIC

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

28	**EMN 59**	Acid to intermediate tuff, breccia

SKUKUM GROUP

27	**ESK 59**	Andesite, basalt, breccia

SLOKO GROUP

26	**ESL 59**	Rhyolite, trachyte

CRETACEOUS AND TERTIARY

25	**KTG 56**	Granite, quartz monzonite
24	**KTGD 56**	Granodiorite, quartz diorite
23	**KTQD 56**	Tonalite

MESOZOIC

CRETACEOUS

22	**KY 52**	Syenite, monzonite
21	**KQM 52**	Quartz monzonite, granodiorite; CASSIAR quartz monzonite, alaskite
20	**KGD 52**	Granodiorite
19	**KV 52**	Basalt, andesite, quartz dacite

JURASSIC AND CRETACEOUS

18	**JKDI 51**	Diorite, hornblende diorite
17	**JKT 51**	TANTALUS: Conglomerate, siltstone, arkose, coal

JURASSIC

16	**JL 47**	Greywacke, arkose, conglomerate

TRIASSIC AND JURASSIC

15	**TJS 46**	Argillite, sandstone, siltstone

TRIASSIC

14	**TGDN 42**	Foliated hornblende granodiorite, quartz

UPPER TRIASSIC

LEWES RIVER GROUP(UTLW, UTC, UTLV)

13	**UTLW 45**	Greywacke, argillite, conglomerate
12	**UTC 45**	Limestone
11	**UTLV 45**	Andesite, basalt

MESOZOIC UNDIVIDED

10	**MGD 41**	Granodiorite, quartz monzonite
9	**MGDN 41**	Foliated hornblende granodiorite, quartz monzonite
8	**MV 41**	Andesite, basalt, tuff

PALEOZOIC

PALEOZOIC UNDIVIDED

7	**PGDN 09**	PELLY GNEISS: Foliated to gneissic granodiorite

CARBONIFEROUS AND PERMIAN

6	**CPH 35**	HORSEFEED: Limestone
5	**CPK 35**	KEDAHDA: Chert, argillite
4	**CPV 35**	Andesite, basalt, chert, tuff
3	**CPUB 35**	Serpentine, diorite, pyroxenite, peridotite

HADRYNIAN AND CAMBRIAN

2	**HCSN 08**	Schist, gneiss, quartzite

PROTEROZOIC

HADRYNIAN

1	**HC 07**	Crystalline limestone

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

Geological boundary . . . .
Fault . . . .
No analytical result . . . .

Geological base and legend are derived from: Map 1398A, MACMILLAN RIVER, YUKON - DISTRICT OF MACKENZIE - ALASKA, NTS SHEET 105, 115. Compiled by H. Gabrielse, D.J. Tempelman-Kluit, S.L. Blusson and R.B. Campbell, Geological Survey of Canada, Energy, Mines and Resources Canada, 1980. 1:1 000 000 scale

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