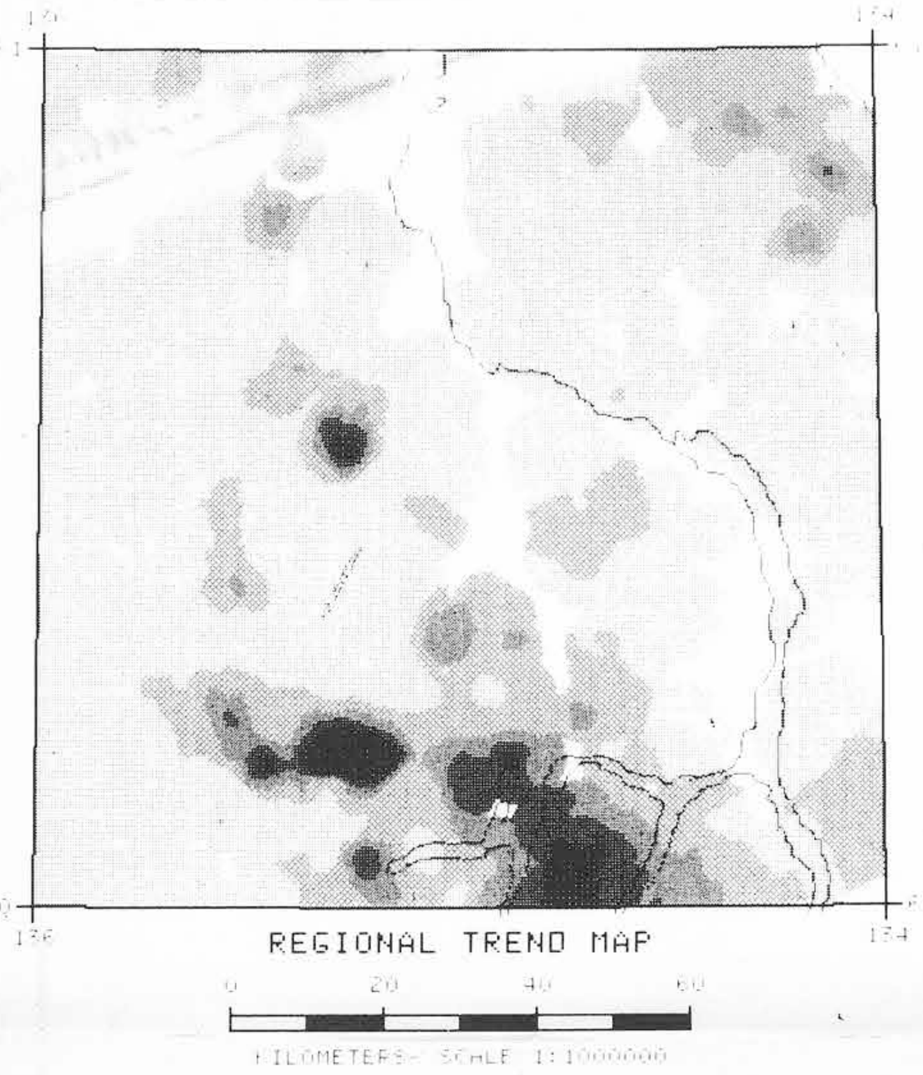
GEOLOGICAL SURVEY OF CANADA — COMMISSION GÉOLOGIQUE DU CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES
MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES

ANTIMONY (ppm)

GSC OPEN FILE 1218
SOUTHERN YUKON TERRITORY, 1985

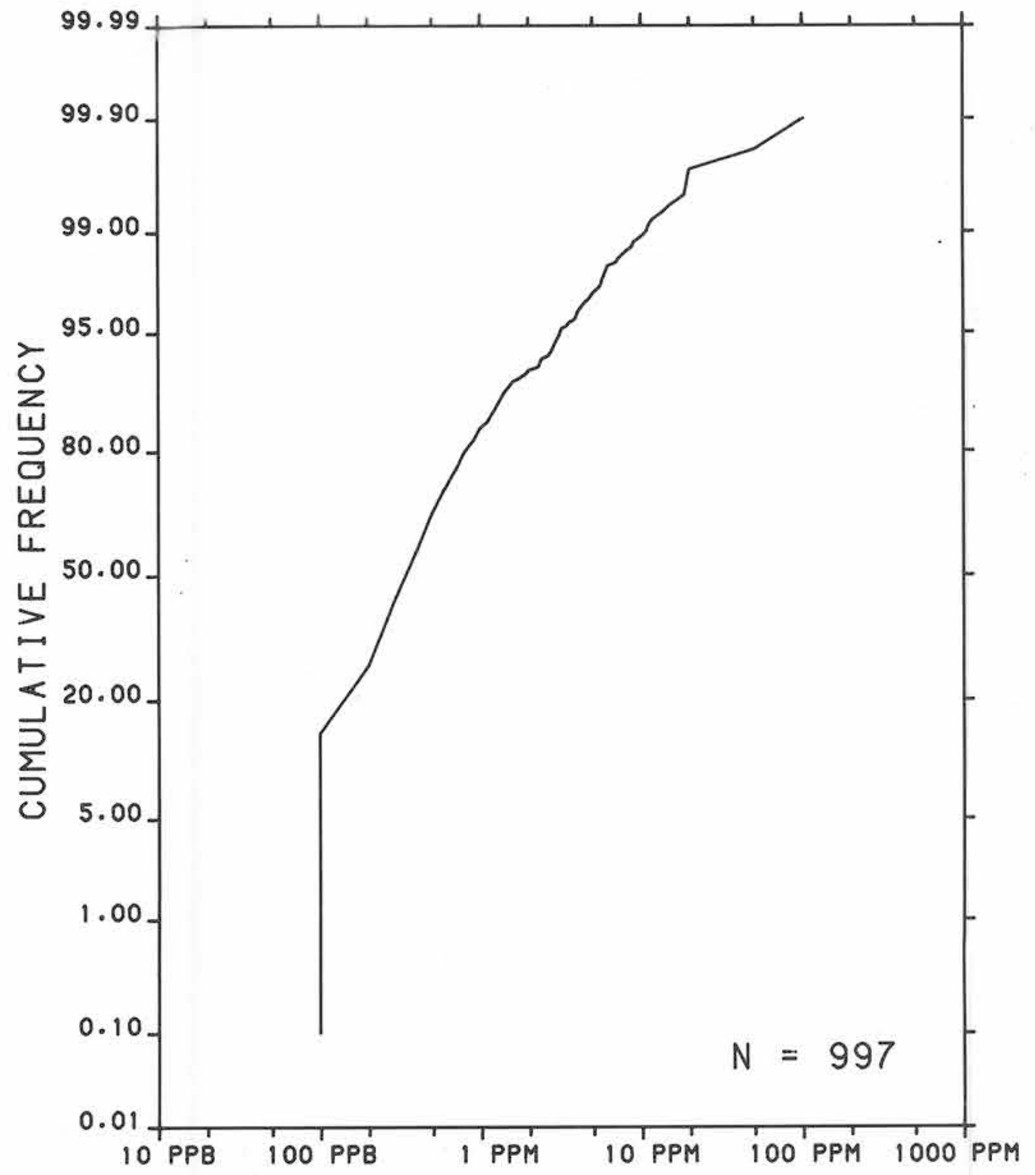


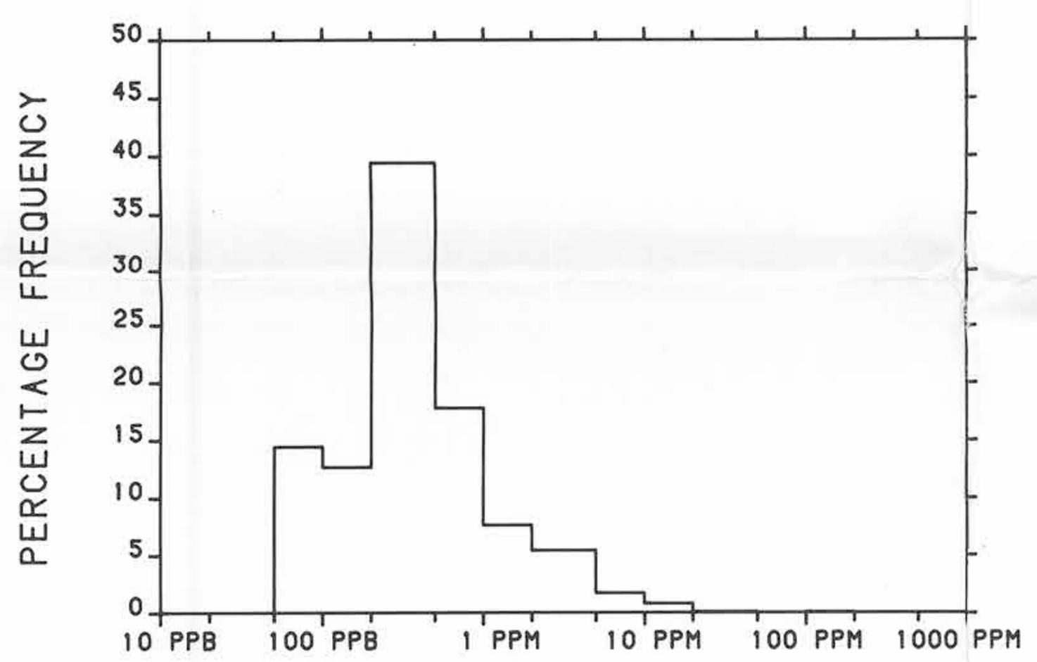
SB

PPM	%TILE
102.0	MAX
5.9	98
3.2	95
1.5	90
0.6	70
0.1	MIN

997 SAMPLES

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





SB
HISTOGRAM

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

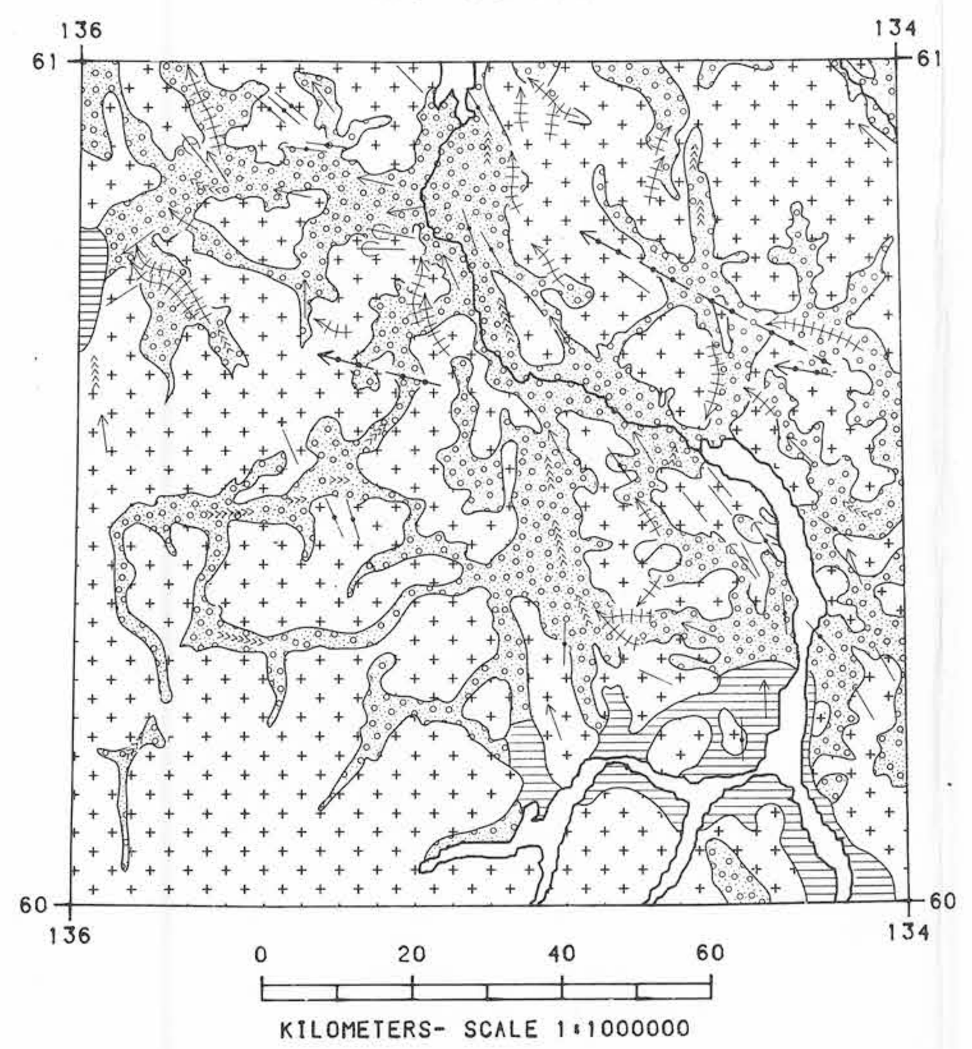
This map forms one of a series of maps released by the Geological Survey of Canada, Open Files 1217 to 1220. Each Open File consists of maps of various geochemical variables: 21 for stream sediment, 3 for stream water and 1 sample site location

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
Department of Energy, Mines and Resources
Ottawa, Ontario
K1A 0E4



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 . . . .

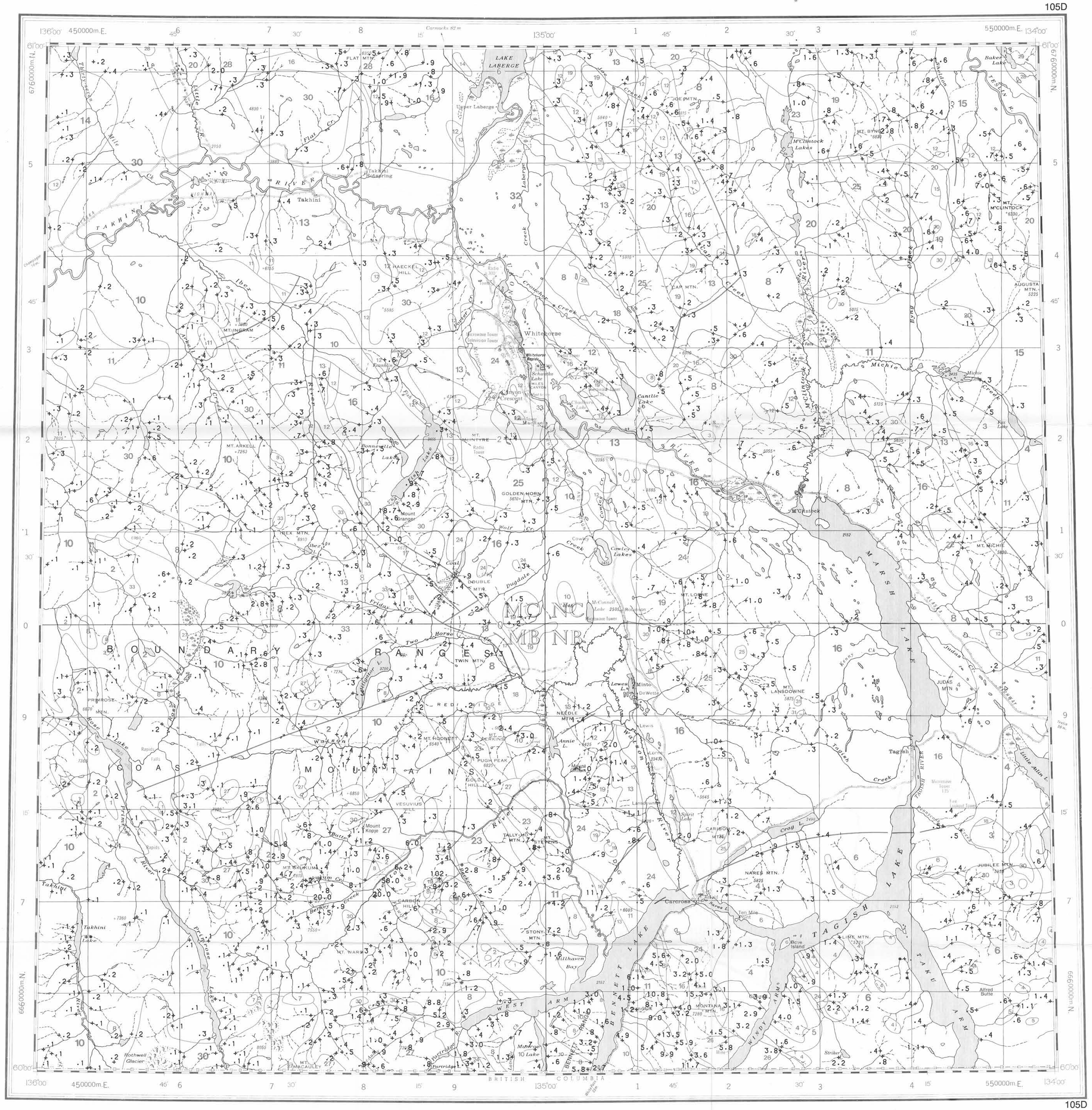
Sources of information:
Hughes, O.L., Campbell, R.B., Muller, J.E., and Wheeler, J.O. (1968) Glacial Map of Yukon Territory, Geological Survey of Canada, Map 6-1968, (1:1 000 000 scale) to accompany GSC Paper 68-34
Prest, V.K., Grant, D.R., and Rampton, V.N. (1967) Glacial Map of Canada, Geological Survey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

Canadä

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

Yukon Government

105D



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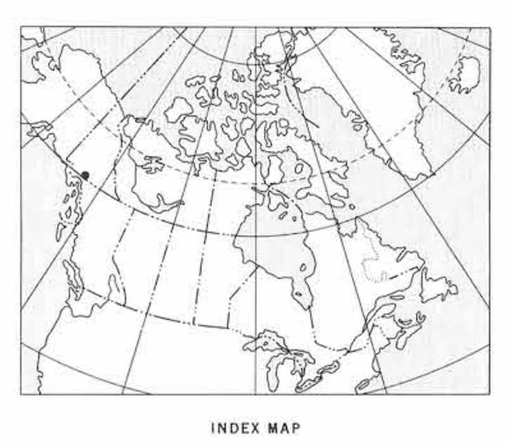

Elevation in feet above mean sea level

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

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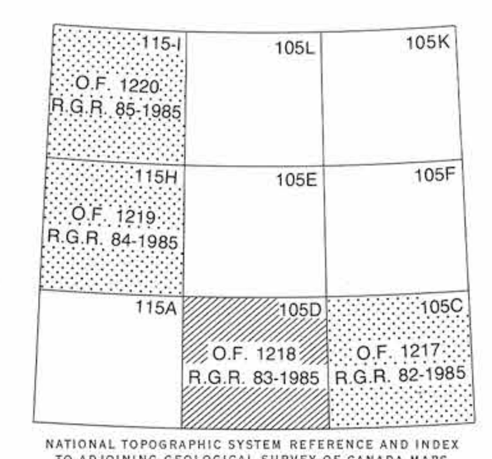
Base map at the same scale published by the Surveys and Mapping Branch in 1979. Streams were revised by the Geological Survey of Canada for this edition



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

LEGEND

Era	Period / Group	Unit	Code	Description
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
PROTEROZOIC	HADRYNIAN AND CAMBRIAN			
		2	HCSN 08	Schist, gneiss, quartzite
	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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