

The regional geochemical trend map displayed above utilized a moving weighted average using an inverse distance function (1/d<sup>2</sup>) 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

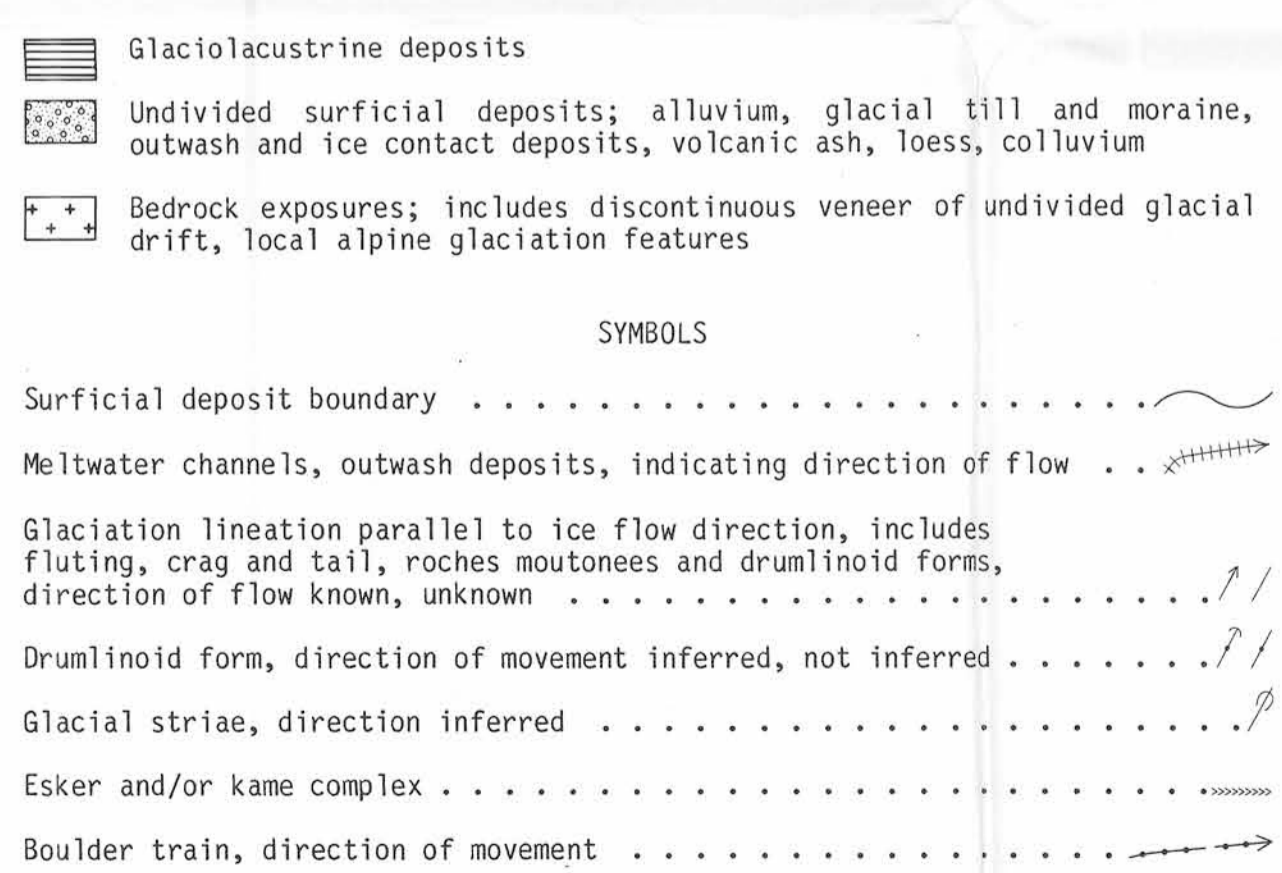
This map forms one of a series of maps released by the Geological Survey of Canada, Open Files 1217 to 1220. Each Open File consists of maps of various geochemical variables: 21 for stream sediment, 3 for stream water and 1 sample site location.

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:

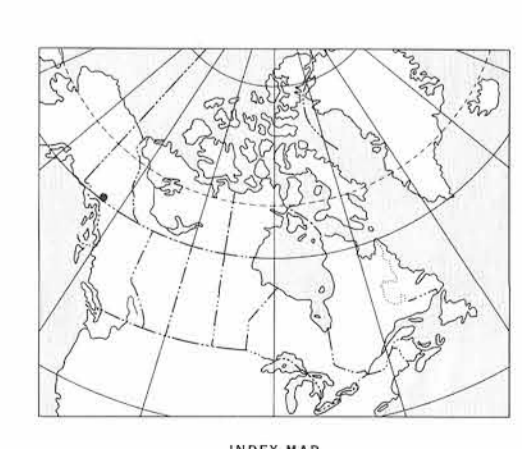
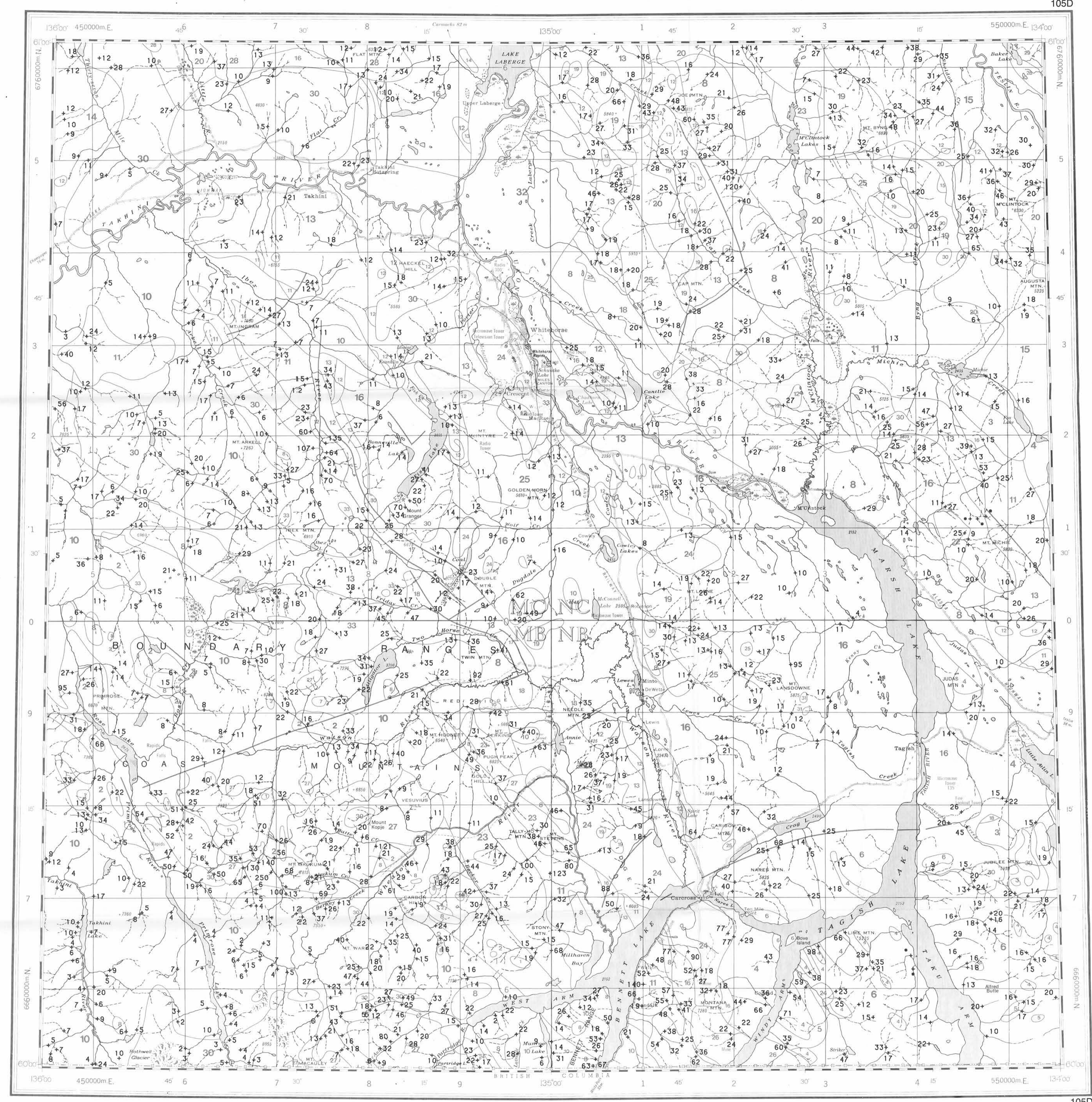
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The data are also available in digital form. For further information please contact:

The Director  
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Sources of information:  
Hughes, D.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 1095A (1:253 440 scale)

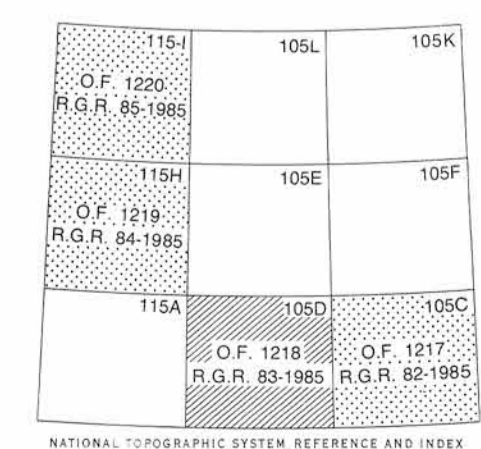
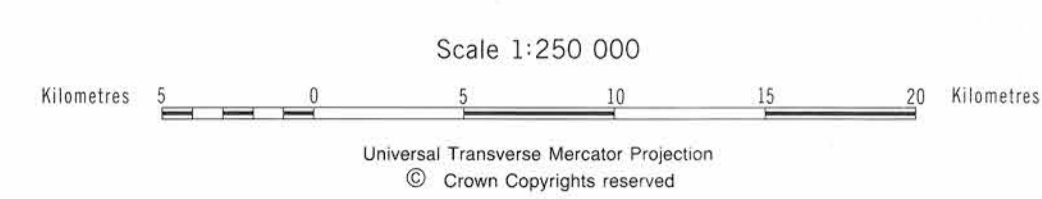


Elevation in feet above mean sea level

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

COPPER (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

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

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
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		
LEWIS 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 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
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